



RFP #2024-21-109P

**REQUEST FOR PROPOSALS
DESIGN-BUILD SERVICES FOR
PREFABRICATED BUILDINGS
FOR JEFFERSON MIDDLE SCHOOL**

RFP Timeline:

Issue Date: 02/07/2024

RFP Questions Due: 02/16/2024

RFP Response Due: 02/23/2024

RFP Proposals Due: 03/05/2024

Design Presentations to Committee: March 8th and March 11th

Anticipated Date of the Award of Contract: March 2024 (TBD)

**Oceanside Unified School District
2111 Mission Ave,
Oceanside, CA 92058
760-966-4070**

REQUEST FOR PROPOSALS

1. INTRODUCTION

The Oceanside Unified School District (“District”) has completed Prequalification for a qualifications-based competitive selection process for Design Build services relating to the construction and renovation of school facilities at Jefferson Middle School. This Request for Proposals (RFP) establishes the requirements for Proposal Submission by Prequalified Proposers. Proposals will be accepted only from Prequalified Proposers.

This Request for Proposals will be made available to Prequalified Proposers at the address below on the date shown in the attached Proposal Schedule. Respondents are invited to review the information and to submit their Design Build proposals in accordance with the criteria established.

The Oceanside Unified School District
Bond Construction Management Office, Building E
2111 Mission Avenue
Oceanside, CA 92058
District Representative: Nancy Rosenberg, Deputy Program Manager

The District reserves the right to reject any, or all, submittals or to withhold the award of this project for any reason it may determine.

1.1 Purpose:

The District’s primary objective in utilizing the Design Build approach for this project is to bring the best available design and construction experience and expertise together to work with the District as a team, and to successfully meet the unique challenges presented by this project.

The District desires to select a cooperative, highly functional Proposer to provide a “design build” project that fully meets the District’s established needs of program, budget, on-going operations, design criteria and site development guidelines. The Design Build approach is intended to allow designers and contractors to work together to address each of these challenges concurrently, and to produce an effective and comprehensive design concept that meets all these needs.

1.2 Project Overview

See Design Exhibits

1.3 Proposal Documents

This Request for Proposals includes the following Proposal Documents, as may be modified by addenda, for use by the Prequalified Proposers in the preparation of their proposals. The proposals must comply with the specific requirements herein as well as the provisions contained in the Design Build Contract which is a part of this Request for Proposals. By submitting its proposal, the Prequalified Proposer agrees to all of the terms and conditions contained therein and further agrees to execute, if selected for award, a contract including such terms and conditions. Each Prequalified Proposer may submit only one Proposal.

Proposers may obtain complete sets of the Proposal Documents from the issuing office designated in the Announcement to Prequalified Proposers for the sum stated therein, if any. Documents are only available in full sets and shall not be returned.

District makes copies of the Proposal Documents available, on the above terms, for the sole purpose of obtaining Proposals for the Work and does not confer a license or grant permission for any other use of the Proposal Documents.

1.3.1 Index to Design Build Contract Documents

1.3.2 Proposal Documents

1. Request for Proposal
2. Price Proposal Form (DB firm to use their own)
3. Bid Bond
4. Preliminary Schedule
5. Expanded List of Subcontractors
6. Self-Certification
7. Iran Contracting Act Certification
8. Drug-Free Workplace Certification
9. Certification of Contractor and Subcontractor Division of Industrial Relations Registration
10. Asbestos-Free Materials Certification

1.3.3 Design Build Contract Documents

1. Agreement
2. General Conditions
3. Exhibits (Criteria Document, Schedule and Kitchen specifications)

1.4 Submittal of Proposal and required documents

1.4.1 The Price Proposal Form, Proposal Security, and all other documents required to be submitted with the Design Builder's Price Proposal Form shall be enclosed in a sealed opaque envelope and brought with you to your specified presentation appointment. Any other documents required to be submitted with Design Builder's Proposal shall be enclosed in a separate sealed package(s), e.g. box, carton, tube, etc. Both the envelope and the package(s) shall be addressed to the office herein and shall be identified with the Project name, Proposer's name and address. If the Proposal is sent by mail, both the envelope and package(s) shall be enclosed in a separate mailing envelope with the notation "SEALED PROPOSAL ENCLOSED" on the face thereof.

1.4.2 Proposals shall be deposited at the designated location on or before the Proposal Deadline of March 5th by 3:00pm. Provide 1 paper submittal and 1 thumb drive of RFP submittal. A Proposal received after the Proposal Deadline shall be returned to Proposer unopened.

1.4.3 Proposer shall assume full responsibility for timely delivery at the location designated for receipt of Proposals.

1.4.4 Oral, telephonic, electronic (e-mail), facsimile, or telegraphic Proposals are invalid and shall not be accepted.

- 1.4.5** Prior to the Proposal Deadline, a submitted Proposal may be modified or withdrawn by notice to the Facility receiving Proposals at the location designated for receipt of Proposals. Such notice shall be in writing over the signature of Proposer and in order to be effective, must be received on or before the Proposal Deadline. A modification so made shall be so worded as not to reveal the amount of the original Proposal.
- 1.4.6** A withdrawn Proposal may be resubmitted up to the Proposal Deadline, provided that it then fully complies with the Proposal Requirements.
- 1.4.7** Proposal Security shall be in an amount sufficient for the Proposal as modified or resubmitted.
- 1.4.8** Proposals may not be modified, withdrawn, or canceled within days after the Proposal Deadline.
- 1.4.9** Submittal requirements for this RFP shall include the following:
 1. Cover Letter.
 2. Preliminary Design Submittal.
 3. Project Team Organization, including Project Management and Staffing Plan.
 4. Price Proposal (Sealed Envelope)
 5. Expanded List of Subcontractors
 6. Key Personnel Schedule
 7. Design Professionals
 8. Self -Certification
 9. Iran Contracting Act Certification
 10. Drug-Free Workplace Certification
 11. Certification of Contractor and Subcontractor Division of Industrial Relations Registration
 12. Asbestos-Free Materials Certification
- 1.4.10** Proposer shall make no stipulations on the Price Proposal nor qualify the Price Proposal in any manner.
- 1.4.11** Every effort will be made to ensure that all persons have equal access to contracts and other business opportunities with the District within the limits imposed by law or District policy. Each Proposer may be required to show evidence of its equal employment opportunity policy. The successful Proposer and its subcontractors will be required to follow the nondiscrimination requirements set forth in the Proposal Documents and to pay prevailing wage at the location of the work.

The work described in the contract is a public work subject to section 1771 of the California Labor Code.

No contractor or subcontractor, regardless of tier, may be listed on a Proposal for, or engage in the performance of, any portion of this project, unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 and 1771.1.

The successful Proposer shall comply with all applicable federal, state and local working condition requirements.

In accordance with Public Contract Code Section 20111.6, for projects over \$1 million, it is the responsibility of prospective bidders (proposers) and MEP (mechanical, electrical, and plumbing) subcontractors to ensure they are properly prequalified with the District in advance of the deadline for proposals. All

prequalification applications are due at [N/A]. The prequalification application is available online at QualityBidders.com or you can find information about prequalification along with the link to Quality Bidders on the Purchasing website at eusd.org.

1.5 Estimated Cost

Estimated Cost: \$[17M]. Proposals that exceed this amount will be determined to be nonresponsive and will be excluded from further consideration.

1.6 Selection of Successful Proposer

Selection shall be based upon a “best value” approach which will be calculated on a “cost per point” basis as identified in the Proposal Evaluation Process document.

Factors that will be considered when evaluating the proposals are also identified in the Proposal Evaluation Process document.

District will have the right to reject all Proposals. District will have the right to reject any Proposal not accompanied by the required Proposal Security or any other item required by the Proposal Documents, or a Proposal which is in any other way materially incomplete or irregular.

District will have the right to waive nonmaterial irregularities in a Proposal. District will select the best value Proposal and notify such Proposer on District's form within 30 days after the Proposal Deadline or reject all Proposals. Within 30 days after receipt of notice of selection as the successful Proposal, Proposer shall submit to District all of the following items:

1. Three originals of the Agreement signed by Proposer.
2. Three originals of the Payment Bond required under Article 11 of the General Conditions.
3. Three originals of the Performance Bond required under Article 11 of the General Conditions.
4. Certificates of Insurance.
5. If Proposer wishes to utilize securities in lieu of retention beginning with the initial Application For Payment, Selection of Retention Options accompanied by a completed Escrow Agreement for Deposit of Securities in Lieu of Retention and Deposit of Retention (Exhibits).

Prior to award of the Contract, District will notify Proposer in writing, if District, after due investigation, objects to a Subcontractor proposed by Proposer, in which case Proposer shall propose a substitute acceptable to District. Substitution of a Subcontractor shall be made in accordance with the General Conditions. Failure of District to object to a proposed Subcontractor prior to award shall not preclude District from requiring replacement of any Subcontractor based upon information received subsequent to award, information which cannot be properly evaluated prior to award due to time constraints, or information relating to a failure to comply with the requirements of the Contract.

If District consents to the withdrawal of the Proposal of successful Proposer, or the successful Proposer fails or refuses to sign the Agreement or submit to District all of the items required by the Proposal Documents, within [45] days after receipt of notice of selection or that Proposer is not financially or otherwise qualified to perform the Contract,

District may reject such Proposer's Proposal and select the next best value Proposal, until all Proposals are exhausted, or reject all Proposals.

1.7 Schedule For this RFP

See RFP Schedule.

1.8 General Provisions Regarding Proposal Procedures

- 1.8.1** Subcontractor Listing: Proposer shall list all Subcontractors identified at the time of submitting its Proposal, using the Expanded List of Subcontractors in the Exhibits. See General Conditions for requirements in updating additional Subcontractors during the course of the Work.
- 1.8.2** Incorporation of Proposal into the Contract: The entire contents of the selected Proposer's proposal shall be incorporated into and shall be an integral part of the Contract.
- 1.8.3** Form and Content of Proposal: The format and content of the RFP submittal are specified in Paragraph 3.0 of this document. Proposals should be concise, straightforward and prepared simply and economically. Expensive displays, bindings, or promotional materials are neither required nor desired.
- 1.8.4** Except as otherwise specifically provided, definitions set forth in the General Conditions or in other Contract Documents are applicable to all Proposal Documents.
- 1.8.5** The term "Addenda" means written or graphic instruments issued by District prior to the Proposal Deadline which modify or interpret the Proposal Documents by additions, deletions, clarifications, or corrections.
- 1.8.6** The term "Business Day" means any day other than a Saturday, a Sunday, and the holidays specified herein, and to the extent provided herein, if the Facility or applicable office of the District is closed for the whole of any day, insofar as the business of that office is concerned, that day shall be considered as a holiday for the purposes of computing time in this RFP. [**New Years Day, President's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Day After Thanksgiving, Christmas Day.**].
- 1.8.7** The term "conflict of interest" includes but is not limited to an architect, engineer or other consultant working on a project on behalf of more than one client. To avoid any such conflict of interest, any consultant that worked on the project on behalf of the District is precluded from participating as a member of the Design Builder team without prior approval in writing from the District.
- 1.8.8** As used in this RFP, the term "Facility" means the District's Facility office issuing the Proposal Documents.
- 1.8.9** The term "Planholder" means a person or entity who is known by the issuing office to have received a complete set of Proposal Documents and who has provided a street address for receipt of pre-bid communications.
- 1.8.10** The term "Proposal Deadline" means the date and time on or before which Proposals must be received, as designated in the Advertisement For Proposals and which may be revised by Addenda. The Proposal Deadline is shown on the Proposal Schedule page.

- 1.8.11** The term “Proposal Documents” means the documents prepared and issued with the Request for Proposals including all Addenda thereto.
- 1.8.12** The term “Proposer” means a person or firm that submits a Proposal.
- 1.8.13** [Reserved].
- 1.8.14** Proposer has read, understood, and made the Proposal in accordance with the provisions of the Proposal Documents.
- 1.8.15** The person executing the Price Proposal Form is duly authorized and empowered to execute the Price Proposal Form on behalf of Proposer.
- 1.8.16** Proposer shall, before submitting its Proposal, carefully study and compare the components of the Proposal Documents and compare them with any other work being bid concurrently or presently under construction which relates to the Work for which the Proposal is submitted; shall examine the Project site, the conditions under which the Work is to be performed, and the local conditions; and shall at once report to District’s Representative errors, inconsistencies, or ambiguities discovered. If Proposer is awarded the Contract, Proposer waives any claim arising from any errors, inconsistencies or ambiguities, that Proposer, its subcontractors or suppliers, or any person or entity under Proposer on the Contract became aware of, or reasonably should have become aware of, prior to Proposer’s submission of its Proposal.
- 1.8.17** Requests for clarification or interpretation of the Proposal Documents shall be addressed only to the person or firm designated as District Representative identified above.
- 1.8.18** Clarifications, interpretations, corrections, and changes to the Proposal Documents will be made by Addenda issued as provided below. Clarifications, interpretations, corrections, and changes to the Proposal Documents made in any other manner shall not be binding and Proposers shall not rely upon them.
- 1.8.19** Addenda will be issued only by District and only in writing. Addenda will be identified as such and will be mailed or delivered to all Planholders. At its sole discretion, the District may elect to deliver Addenda via facsimile or email to Planholders who have provided a facsimile number or email address for receipt of Addenda.
- 1.8.20** Copies of Addenda will be made available for inspection wherever Proposal Documents are on file for inspection.
- 1.8.21** Addenda will be issued such that they should be received by Planholders, no later than 3 full business days prior to the Proposal Deadline. Addenda withdrawing the Request for Proposals or postponing the Proposal Deadline may be issued any time prior to the Proposal Deadline.
- 1.8.22** Each Proposer shall be responsible for ascertaining, prior to submitting a Proposal, that it has received all issued Addenda.
- 1.8.23** Each Proposer shall list in the Price Proposal Form all first-tier Subcontractors that will perform work, labor or render such services as required by the General Conditions.
- 1.8.24** Proposer shall attend the Pre-Proposal Conference at which the requirements of the Proposal Documents are reviewed by District; comments and questions are received from Proposers; and a Project site visit is conducted. District requires all Pre-

Proposal Conference attendees to arrive for the meeting on time and to sign an attendance list, which in turn is used to determine if Proposers meet this requirement. Any Proposer not attending the Pre-Bid Conference in its entirety will be deemed to have not complied with the requirements of the Proposal Documents and its Proposal will be rejected.

- 1.8.25** The Price Proposal Form shall be signed by a person or persons legally authorized to bind Proposer to a contract. Proposer's Representative shall sign and date the Declaration included in the Price Proposal Form. Failure to sign and date the declaration will cause the Proposal to be rejected.
- 1.8.26** If a Bid Bond is submitted and an attorney-in-fact executes the Bid Bond on behalf of the surety, a notarized and current copy of the power of attorney shall be affixed to the Bid Bond. This notarization shall be in addition to the notarization required for the signature of the attorney-in-fact.
- 1.8.27** Bid Security will be returned after the contract has been awarded. Notwithstanding the preceding, if the selected Proposer fails or refuses, within **10** days after receipt of notice of selection, to sign the Agreement or submit to District all of the items required by the Bidding Documents, the District will retain that selected Proposer's Bid Security.
- 1.8.28** The District intends to evaluate proposals and award a contract after preliminary reviews with the Proposers. The Proposer's initial proposal should contain its best terms from a price and technical standpoint. The District reserves the right to conduct additional discussions if the District later determines them to be necessary. If District elects to conduct discussions, the information contained in the Proposals will not be announced publicly until after conducting discussions. Unless and until the District announces that it will award without discussions information concerning the Proposals, including prices proposed, will not be announced publicly. The District will publicly post results after it has determined the successful proposal. At the conclusion of discussions with all Proposers, the District will establish a common cutoff date for receipt of revisions. Failure to submit Proposal revisions will result in the Proposer being non-responsive. Such discussions with Proposers after receipt of a proposal do not constitute a rejection or counteroffer by the District. As used in this provision, the following definitions apply:
- .1** "Discussions" are exchanges that occur after the submittal of proposals that may result in the Proposer being allowed to revise its proposal.
- .2** "Proposal revision" is a change to a proposal made after the solicitation closing date, at the request of or as allowed by the District as a result of discussions. Proposers may submit revised proposals only if requested or allowed by the District.
- 1.8.29** The term "Design Innovation" means a proposed scope that either (1) exceeds the scope required by the Criteria Documents (Basis for Program Design) or (2) reconfigures or modifies the design, while still consistent with the minimum requirements, to permit the Proposer to achieve the cost savings necessary to meet the Maximum Acceptance Cost. The Proposer may, but is not required to, submit one or more Design Innovations as a component of its Preliminary Design Submittal. The District will evaluate any Design Innovations when determining the score to be assessed for the Preliminary Design Submittal. District may elect to identify specific areas of design which that it believes are most appropriate for such Design Innovations, but Proposer is not limited to such identified areas.

- 1.8.30** All information submitted in response to the Request for Proposals will be considered official information acquired in confidence, and the Oceanside Unified School District will maintain its confidentiality to the extent permitted by law.

2.0 THE WORK

All architectural and engineering services to be provided by Proposer must be provided in accordance with the professional registration requirements of the State of California. Consultants listed must meet State licensing requirements. The Proposer must have full bonding and insurance for the project, including the required professional liability insurance.

2.1 General Requirements

The successful Proposer will be responsible for providing the design services and construction as indicated below and described in greater detail in the Design Build Contract.

The District will award to the successful Proposer a contract for the production of Schematic Design, Design Development and Construction Documents through Construction. The schedule for the completion of the Phases will be as proposed by the Design Build team.

2.2 Scope of Contracted Work

The Guaranteed Maximum Price Proposal must provide for the complete design and construction of the Project, including any temporary or interim facilities required to maintain essential existing functions in operation throughout the construction period as identified in the Detailed Project Program.

2.3 Design

The successful Proposer will be responsible for providing services for development of the project including Schematic Design, Design Development, Construction Documents, and Construction of the Project.

2.3.1 Conceptual Design (N/A)

The selected Proposer shall be responsible for the development of the Final Design for the project as identified in the Design Build Contract.

- .1 It is anticipated that the design and construction work will be completed and ready for student use by **{TBD}**.

2.4 Liquidated Damages

If work under the contract is not ready for the intended use by **{TBD}**, the agreed liquidated damages established in Article 5 of the Agreement is Five Thousand Dollars (\$5,000.00) per day for each calendar date completion is delayed.

3.0 Proposal Requirements

The Proposal requirements for this RFP shall be as described below. Failure to adhere or comply with all of the requirements stated in this RFP will be cause for rejection of a proposal.

Each Prequalified Proposer shall prepare their respective Proposals in response to this RFP by clearly identifying this Project and the District's Project Number.

Each Prequalified Proposer's submittal shall be properly addressed to:

The Oceanside Unified School District
Bond Construction Management Office
2111 Mission Avenue
Oceanside, CA 92058
Attn: Nancy Rosenberg, Deputy Bond Program Manager

Each Prequalified Proposer shall provide written Proposals conforming to the following format outline and must contain all information requested. Each Prequalified Proposer's written Proposal shall be indexed with tabs numbered and labeled in bold type according to the headings below. Failure to provide the format and/or the information requested will result in a "non-responsive" Proposal.

Each Prequalified Proposer shall provide one (1) original and five (5) copies of their written Proposals to be submitted in 8-1/2" x 11" vertically formatted 3-ring binders (items not physically suitable for inclusion into binder may be submitted separately) and have sections tabbed as identified below:

3.1 Cover Letter

Cover Letter shall include a maximum of two pages.

Identify whether the Prequalified Proposer is a single entity, partnership, corporation or joint venture, or other legal entity recognized in the State of California, and the date such entity was legally established.

Identify project team. Include as a minimum the following consultants: Architect, Structural Engineer, Civil Engineer, Mechanical Engineer, Electrical Engineer, Landscape Architect, Specifications Writer, Acoustical/Vibration Consultant and Laboratory Design Consultant.

Provide name of contact person, phone number and facsimile number.

Summarize qualifications most relevant to this Project.

3.2 Preliminary Design Submittal

Each Prequalified Proposer will be responsible for developing a Preliminary Design Submittal based upon the information made available by the District and HPI (Master Architect) in this RFP (see Exhibits included with the Proposal Documents).

The Preliminary Design Submittal shall be comprised of the following:

Design narratives, site model, drawings, perspectives, presentation boards Design Innovations (if submitted), and outline specifications. Each Prequalified Proposer shall also be responsible for developing an Area Tabulation for the Project identifying the current assignable square feet (ASF) and overall gross square feet (OGSF) areas for the project compared with the areas submitted with the Project Program. Area Tabulation shall be based upon the calculation standards of the District as identified in the Design Criteria Program.

Each Prequalified Proposer shall provide the following information with the content and format as described below.

Additional presentation boards, slides, models, videos, computer animation, or other presentation materials not specifically identified in this RFP are not allowed.

3.2.1 Technical Component

The following drawings and perspectives shall be provided in digital format; additionally, mounted on 30" x 40" foamcore boards as identified later in this section as "Number of Boards":

3.2.1.1 Site Plan

- A. Scale: 1" = 20' - 0".
- B. Include relationships with existing site elements and buildings.
- C. Drawing requirements:
 - 1. Site Plan to include the following:
 - a. Location of the proposed building.
 - b. Location of the proposed hardscape design elements in relation to existing facilities and site amenities.
 - c. Location of the proposed surface parking, roads, service areas, walks, plaza(s), tree groupings, landscape screening, retaining walls, and other various site/building features.
 - d. Building and site accessibility.
 - e. Identification and location of proposed mechanical utilities.
 - f. Identification and location of proposed electrical utilities.
 - g. Location of the proposed site lighting.
 - h. Location of the proposed site electrical equipment, main electrical feeders and pads/vaults.

3.2.1.2 Landscape Plan (Could be combined with Site Plan)

- A. Scale: 1" = 20' - 0".
- B. Include relationships with existing site elements and buildings.
- C. Drawing requirements:
 - 1. Landscape plan(s) to include the following:
 - a. Identification and location of all proposed trees, shrubs, ground cover, special fill areas and lawn areas.
 - b. General notes to define the design intent.

3.2.1.3 Floor Plans and Roof Plans

- A. Scale: Varies, see below.
- B. Include all levels, roofs and tunnel level.
- C. Drawing requirements:
 - 1. Code information plans to include the following: Scale: 1/32" = 1' - 0"
 - a. Identification of all fire and smoke rated walls and openings.
 - b. Identification of all exits.
 - c. Identification of all room names.
 - d. Identification, location, and fire rating of all building separations.
 - e. Identification and limits of all building occupancies.
 - f. Description of summarized code review, including Exit Calculations.
 - 2. Floor plans to include the following: Scale: 1/8" = 1' - 0"
 - a. Dimensioned structural grid.
 - b. Exterior walls, doors, frames, and openings.
 - c. Interior walls, doors, frames, and openings.
 - d. Room names.
 - e. Atrium guardrails and handrails locations.
 - f. Custom casework locations.
 - 3. Roof plan(s) to include the following: Scale: 1/8" = 1' - 0"
 - a. Dimensioned structural grid.
 - b. Screen walls, light roof system and openings.
 - c. Roof drain locations.

- d. Roof slope and drainage identification.
- e. Roof top equipment.

- 4. Conceptual reflected ceiling plans to include the following: Scale: 1/16" = 1' – 0"
(Entire level 1 and top level of atrium required only)
 - a. Exterior and interior walls, doors, and openings.
 - b. Ceiling height designations.
 - c. Room names.
 - d. Reflected ceiling grids.
 - e. Interior and exterior soffits and bulkheads.
 - f. Lights and mechanical diffusers.
 - g. Item and material designations.

3.2.1.4 Exterior Elevations

- A. Scale: 1/8" = 1' – 0".
- B. Include all building elevations.
- C. Drawing requirements:
 - 1. Exterior elevations to include the following:
 - a. All major building elevations.
 - b. Partial and hidden building elevations.
 - c. Structural grid designations.
 - d. Vertical floor elevation designations.
 - e. Item and material designations.

3.2.1.5 Building Sections

- A. Scale: 1/8" = 1' – 0"; (3) required.
 - 1. Longitudinal section through entire building.
 - 2. Transverse section through atrium.
 - 3. Transverse section through lab.
- B. Illustrate building systems relationships
- C. Drawing requirements:
 - 1. Building sections to include the following:
 - a. Primary building sections.
 - b. Structural grid designations.
 - c. Vertical floor elevation designations.
 - d. Item and material designations.

3.2.1.6 Important Typical Exterior Details

- A. Scale: 1/2" = 1' – 0".
- B. Illustrate building systems relationships.
- C. Drawing Requirements:
 - 1. Typical exterior details.

3.2.1.7 Perspectives

- A. Scale: No scale (minimum overall size = 8-1/2" x 11").
- B. Illustrate building systems relationships.
- C. Perspective requirements:
 - 1. Exterior – (2) include North and West elevations
 - 2. Exterior – Axonometric including courtyards

3.2.1.8 Number of Boards (To be shown at presentation)

In an effort to create a consistent means by which to compare each Prequalified Proposer's Preliminary Design Submittal for the development of the documents stated above, The District has determined that each Prequalified Proposer shall prepare their presentation boards based upon the following breakdown:

- A. Site/Architectural: Maximum of (20) boards

3.2.1.9 Design Narratives

In addition to the presentation boards and study model as identified above, each Prequalified Proposer shall include the following Design narratives (to be included in each Prequalified Proposer's written Proposal) with the content as described below:

3.2.1.9.1 Architectural Design Narrative

- A. Identify design context and philosophical design intent.
- B. Length of document – maximum of (3) typed pages.
- C. Minimum font size is 11.

3.2.1.9.2 Design Innovations, if any

- A. Identify each design innovation
- B. Length of document - maximum of (5) typed pages.
- C. Minimum font size is 11.

3.2.1.10 Area Tabulations

Each Prequalified Proposer shall prepare a Revised Area Tabulation for the Project identifying the current assignable square feet (ASF) and overall gross square feet (OGSF) areas for the Project compared with the areas submitted with the Project Program.

3.3 Project Team Organization

The District requires that a Team Organizational Chart be developed and provided as part of the Proposal of the Prequalified Proposer identifying all of the proposed key personnel of each team component and how the team will be managed. If any of the team members have changed from the originally submitted Prequalifications Submittal, each new team member shall be identified along with background information describing the new team member. The District reserves the right to interview each new team member to confirm its acceptance of the new team member. If the District does not accept a proposed new team member, the Prequalified Proposer will provide alternative team members until such time that the District accepts the proposed new team member.

In addition to the Team Organizational Chart, each proposing Prequalified Proposer shall include the following information:

3.3.1 Qualifications of Key Personnel:

Each Prequalified Proposer shall submit resumes demonstrating qualifications of the key personnel who will be assigned to this project. Key personnel are defined as, but not limited to the following: Project Planner, Project Manager, Project Architect, Project Engineer, Structural Engineer, Construction Project Manager, Construction Field Superintendent. Resumes shall include a description of training and experience of the key personnel in their respective areas of expertise. Each Prequalified Proposer shall clearly define the duties of each key person. Resumes shall describe their current position/title, proposed position/title, education, professional licensing, and work experience over the last ten (10) years. Each resume shall also indicate whether or not each key person has worked before as part of the proposed team on similar projects.

3.3.2 Management and Staffing Plan:

Each Prequalified Proposer shall also be responsible for developing a Management and Staffing plan which illustrates the management approach to performing the Work; and the required staff including the key personnel along with their identified time commitments required to perform the Work plan.

The Management and Staffing Plan must indicate all staff required to complete the Design Development and Construction Documents Phases as well as the management staff required by the Prequalified Proposer for Design Development through completion of Construction. Each Prequalified Proposer must submit a staffing schedule tied to the Preliminary Schedule showing the time commitment of each individual identified under the key personnel item herein.

Each Prequalified Proposer shall also be responsible for developing and providing as part of this RFP Submittal a table or matrix showing the Prequalified Proposer's current and pending major project commitments. Include in this table or matrix all Key Personnel, their current and planned project commitments and the percentage of time assigned to those commitments and the percentage of time available for this Project.

The successful Prequalified Proposer shall comply with all applicable federal, state and local working condition requirements.

3.4 Price Proposal

3.4.1 Price Proposal Form: DB Team to provide their own proposal form

Each Prequalified Proposer shall be responsible for submitting a completed and signed Price Proposal Form as contained within this RFP. The Price shall be the proposed price for ALL phases. Failure to submit complete and signed forms shall result in the Prequalified Proposer's RFP Submittal being rejected as nonresponsive.

3.4.2 Proposal Bond:

Each Guaranteed Maximum Price Proposal shall be accompanied by Proposal security in the amount of 10% of the Guaranteed Maximum Price Proposal as security for Prequalified Proposer's obligation to enter into a Contract with District. Proposal security shall be a Proposal Bond on the form provided by District and included herein, or a certified check made payable to "The Oceanside Unified School District." When a Proposal Bond is used for Proposal security, failure to use District's Proposal Bond form will result in the rejection of the Proposal.

4.0 Proposal (Bid) Protest

4.1 Any Proposer, person, or entity may file a Proposal (Bid) protest with the District's Director of Purchasing. In order for a protest to be considered, the protest must:

4.1.1 Be filed in writing within **two** business days of notification of award recommendation. Failure to file a timely bid protest shall constitute a Proposer's waiver of his/ her right to protest the award of the contract;

4.1.2 Clearly identify the specific irregularity or reason for the protest;

4.1.3 Clearly identify the specific District staff determination or recommendation being protested;

4.1.4 Specify, in detail, the grounds of the protest and the facts supporting the protest; and

4.1.5 Include all relevant supporting documents with the protest at the time of filing.

4.2 If the protest does not comply with each of the requirements above, it will be rejected.

4.3 If the protest is considered, the District's Director of Purchasing and Distribution, or other designated staff member, shall review the basis of the protest and all relevant information. The Director of Purchasing will provide a written decision to the protestor. The protestor may appeal the decision of

the Director of Purchasing to the Superintendent or his/her designee, the Assistant Superintendent, Business Services.

5.0 Conflicts

The intent of this RFP introduction is to provide an overview of the proposal process, the subsequent award and the work required of the successful Proposer. The provisions herein are a SUMMARY ONLY and the Prequalified Proposers should in all cases review the provisions of the Design Build Contract for the specific requirements. If the Proposer believes there are conflicts between this document and any other Contract Documents, the Proposer should immediately, and in writing, bring it to the attention of the District and request written clarification.

Additionally, an architectural firm, engineering firm, construction manager, contractor, subcontractor, consultant, or individual retained by the District's Board directly or indirectly before the award of the Project to assist in the planning of the Project, including, but not necessarily limited to, the development criteria or preparation of the RFP, shall not be eligible to participate in the competition with the Design-Build entity or to perform work on the Project as a subcontractor.

6.0 Presentations Please do not take any of your presentation time requalifying your firm. You have already been shortlisted for consideration.

- 6.1** Team: Past experience of proposed team working together.
- 6.2** Phasing and Logistics plan
- 6.3** Identify successes and challenges with the Jefferson Middle School Modernization project.
- 6.4** Proposed price delivered at time of interview in a sealed envelope.
- 6.5** Identify distinguishing qualities that separate your team from your competitor's.

BID BOND FORM

KNOW ALL MEN BY THESE PRESENT that we, the undersigned (hereafter called "Principal"), and _____ (hereafter called "Surety"), an admitted Surety insurer pursuant to Code of Civil Procedure Section 995.120, legally doing business in California at _____, are hereby held and firmly bound unto the Oceanside Unified School District (hereafter called "District") in the sum of _____ (\$ _____) for the work described below for the payment of which sum is lawful money of the United States, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns.

SIGNED this _____ day of _____, 20__.

The condition of the above obligation is such that whereas the Principal has submitted to the District a certain Proposal dated _____, 20__, attached hereto and hereby made a part hereof, to enter into a Contract in writing for the construction of Request for Proposal ("RFP") Number _____, for the project known generally as: _____.

NOW, THEREFORE, the Principal shall not withdraw said bid within **NINETY (90)** calendar days after said opening; and the Principal, when given Notice of Award, shall within **FIVE (5)** calendar days, return executed copies of the Agreement to the District, in accordance with the bid as accepted and give bond with good and sufficient surety or sureties, as may be required, for the faithful performance and proper fulfillment of such contract and for the payment for labor and materials used for the performance of the contract, or in the event of the withdrawal of said bid within the period specified or the failure to enter into such contract and give such bonds within the time specified, the Principal shall pay the District the difference between the amount specified in said bid and the amount for which the District may procure the required work and/or supplies if the latter amount be in excess of the former, together with all costs incurred by the District in again calling for bids, then the above obligation shall be void and of no effect; otherwise, the same shall remain in full force and effect.

Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the Contract, or the call for bids, or the work to be performed thereunder, or the specifications accompanying the same, shall in anyway affect its obligation under this bond, and it does hereby waive notice of any such change, extension of time, alteration, or addition to the terms of said Contract, or the call for bids, or the work, or to the specifications.

In the event suit is brought upon this bond by the District and judgment is recovered, the Surety shall pay all costs incurred by the District in such suit, including without limitation, attorneys' fees to be fixed by the court.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, on the day and year first set forth above.

(Corporate Seal)

By _____
Principal's Signature

Typed or Printed Name

Principal's Title

(Corporate Seal)

By _____
Surety's Signature

Typed or Printed Name

Title

(Attached Attorney in Fact Certificate)

Surety's Name

Surety's Address

Surety's Phone Number

IMPORTANT:

Surety companies executing bonds must possess a certificate of authority from the California Insurance Commissioner authorizing them to write surety insurance defined in California Insurance Code Section 105, and if the work or project is financed, in whole or in part, with federal, grant, or loan funds, it must also appear on the Treasury Department's most current list (Circular 570 as amended).

THIS IS A REQUIRED FORM.

Any claims under this bond may be addressed to:

(Name and Address of Surety)

(Name and Address of agent or representative for
service of process in California if different from above)

(Telephone Number of Surety and agent or
representative for service of process in California).

EXPANDED LIST OF SUBCONTRACTORS

[SAMPLE – INSERT EXPANDED LIST OF SUBCONTRACTORS HERE]

Company	Work	License #	Contact Information
[Insert Company Information]	Architect		Contact: [Insert Contact Information]
[Insert Company Information]	Structural Engineer		Contact: [Insert Contact Information]
[Insert Company Information]	Civil Engineer		Contact: [Insert Contact Information]
[Insert Company Information]	Mechanical Engineer		Contact: [Insert Contact Information]
[Insert Company Information]	Electrical Engineer		Contact: [Insert Contact Information]
[Insert Company Information]	Landscape Architect		Contact: [Insert Contact Information]
[Insert Company Information]	Specifications Writer		Contact: [Insert Contact Information]
[Insert Company Information]	Acoustical/ Vibration Consultant		Contact: [Insert Contact Information]
[Insert Company Information]	Laboratory Design Consultant		Contact: [Insert Contact Information]

TRADE CONTRACTOR CERTIFICATION REGARDING IRAN CONTRACTING
(Public Contract Code sections 2200 – 2208)

PROJECT/CONTRACT NO.: 20[]-[] - **[INSERT PROJECT NAME]** between Oceanside Unified School District (“District”) and _____ (“Design-Builder” or “Bidder”).

Prior to bidding on or submitting a proposal for a contract for goods or services for a project of one million dollars (\$1,000,000) or more to the District, the Bidder must either: a) certify it is **not** on the current list of persons engaged in investment activities in Iran created by the California Department of General Services (“DGS”) pursuant to Public Contract Code section 2203(b); does not provide goods or services of twenty million dollars (\$20,000,000) or more in the energy sector of Iran, including providing oil or liquefied natural gas tankers, or products used to construct or maintain pipelines used to transport oil or liquefied natural gas, for the energy sector of Iran; and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS; or b) demonstrate it has been exempted from the certification requirement for that solicitation or contract pursuant to Public Contract Code section 2203(c) or (d).

To comply with this requirement, please insert your vendor or financial institution name and Federal ID Number (if available) and complete **one** of the options below. Please note: California Law establishes penalties for providing false certifications, including civil penalties equal to the greater of two hundred fifty thousand dollars (\$250,000) or twice the amount of the contract for which the false certification was made; contract termination; and three-year ineligibility to bid on contracts. (Public Contract Code section 2205.)

[Remainder of page intentionally left blank]

OPTION #1 – CERTIFICATION

I, the official named below, certify I am duly authorized to execute this certification on behalf of the vendor/financial institution identified below, and the vendor/financial institution identified below is **not** on the current list of persons engaged in investment activities in Iran created by DGS; does not provide goods or services of twenty million dollars (\$20,000,000) or more in the energy sector of Iran, including providing oil or liquefied natural gas tankers, or products used to construct or maintain pipelines used to transport oil or liquefied natural gas, for the energy sector of Iran; and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person/vendor, for 45 days or more, if that other person/vendor will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

Vendor Name/Financial Institution (Printed)	Federal ID Number (or n/a)
By (Authorized Signature)	
Printed Name and Title of Person Signing	
Date Executed	Executed in

OPTION #2 - EXEMPTION

Pursuant to Public Contract Code sections 2203(c) and (d), a public entity may permit a vendor/financial institution engaged in investment activities in Iran, on a case-by-case basis, to be eligible for, or to bid on, submit a proposal for, or to enter into or renew, a contract for goods and services.

If you have obtained an exemption from the certification requirement under the Iran Contracting Act, please fill out the information below, and attach documentation demonstrating the exemption approval.

Vendor Name/Financial Institution (Printed)	Federal ID Number (or n/a)
By (Authorized Signature)	
Printed Name and Title of Person Signing	
Date Executed	Executed in

DRUG-FREE WORKPLACE CERTIFICATION

This Drug-Free Workplace Certification form is required from all successful bidders pursuant to the requirements mandated by Government Code Sections 8350 et seq., the Drug-Free Workplace Act of 1990. The Drug-Free Workplace Act of 1990 requires that every person or organization awarded a contract or grant for the procurement of any property or service from any State agency must certify that it will provide a drug-free workplace by performing certain specified acts. In addition, the Act provides that each contract or grant awarded by a State agency may be subject to suspension of payments or termination of the contract or grant, and the Trade Contractor or grantee may be subject to debarment from future contracting, if the contracting agency determines that specified acts have occurred.

Pursuant to Government Code Section 8355, every person or organization awarded a contract or grant from a State agency shall certify that it will provide a drug-free workplace by doing all of the following:

1. Publishing a statement, notifying employees that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited in the person's or organization's workplace and specifying actions that will be taken against employees for violations of the prohibition.
2. Establishing a drug-free awareness program to inform employees about all of the following:
 - a. The dangers of drug abuse in the workplace;
 - b. The person's or organization's policy of maintaining a drug-free workplace;
 - c. Any available drug counseling, rehabilitation, and employee assistance programs; and
 - d. The penalties that may be imposed upon employees for drug abuse violations;
3. Requiring that each employee engaged in the performance of the contract or grant be given a copy of the statement required by Government Code Section 8355 and that, as a condition of employment on the contract or grant, the employee agrees to abide by the terms of the statement.

I, the undersigned, agree to fulfill the terms and requirements of Government Code Section 8355 listed above and will (a) publish a statement notifying employees concerning the prohibition of controlled substance at the workplace, (b) establish a drug-free awareness program, and (c) require each employee engaged in the performance of the contract be given a copy of the statement required by Section 8355(a) and require such employee agree to abide by the terms of that statement.

I also understand that if the Oceanside Unified School District determines that I have either (a) made a false certification herein, or (b) violated this certification by failing to carry out the requirements of Section 8355, that the contract awarded herein is subject to termination, suspension of payments, or both. I further understand that, should I violate the terms of the Drug-Free Workplace Act of 1990, I may be subject to debarment in accordance with the requirements of Sections 8350 et seq.

I acknowledge that I am aware of the provisions of Government Code Sections 8350 et seq. and hereby certify that I will adhere to the requirements of the Drug-Free Workplace Act of 1990.

Date: _____

Proper Name of Contractor: _____

Signature of Authorized Person: _____

Print Name: _____

Title: _____

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE)ss

On _____ before me, _____
(insert name and title of the officer)

personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (Seal)

AGREEMENT made as of the day of in the year
202_
(In words, indicate day, month and year.)

BETWEEN the Owner:
(Name, legal status, address and other information)

OCEANSIDE UNIFIED SCHOOL DISTRICT
2111 Mission Ave,
Oceanside, CA 92058

and the Design-Builder: [insert name]
(Name, legal status, address and other information)

For the following Project: [insert name]

The Project Manager:
(Name, legal status, address and other information)

The Owner and Design-Builder agree as follows.

TABLE OF ARTICLES

1	GENERAL PROVISIONS
2	COMPENSATION AND PROGRESS PAYMENTS
	GENERAL REQUIREMENTS OF THE WORK OF THE DESIGN-BUILD CONTRACT
4	WORK PRIOR TO EXECUTION OF THE DESIGN-BUILD AMENDMENT
5	WORK FOLLOWING EXECUTION OF THE DESIGN-BUILD AMENDMENT
6	CHANGES IN THE WORK
7	OWNER'S RESPONSIBILITIES
8	TIME
9	PAYMENT APPLICATIONS AND PROJECT COMPLETION
10	PROTECTION OF PERSONS AND PROPERTY
11	UNCOVERING AND CORRECTION OF WORK
12	COPYRIGHTS AND LICENSES
13	TERMINATION OR SUSPENSION
14	CLAIMS AND DISPUTE RESOLUTION
15	MISCELLANEOUS PROVISIONS
16	SCOPE OF THE
	AGREEMENT TABLE OF
	EXHIBITS
A	This AGREEMENT, EXHIBIT A (DESIGN-BUILD AMENDMENT ONCE EXECUTED)

ARTICLE 1 GENERAL PROVISIONS

§ 1.1 Owner's Criteria

This Agreement is based on the Owner's Criteria set forth in this Section 1.1.

(Paragraph deleted)

§ 1.1.1 The Owner's program for the Project:

(Set forth the program, identify documentation in which the program is set forth, or state the manner in which the program will be developed.)

The Project will consist of two Phases, as further described in Exhibit "A" hereto, and is to design and construct improvements at the [inert location or name of project].

§ 1.1.2 The Owner's anticipated Sustainable Objective for the Project, if any:

The Design-Builder shall be committed to the practice of sustainability by making it a goal to incorporate sustainable concepts in the design and construction of the Project and comply with Leadership in Energy and Environmental Design ("LEED") and Green building practices and the certification process.

Commented [RN1]: This language can be removed if this is not a LEED project.

§ 1.1.3 Incentive programs the Owner intends to pursue for the Project, including those related to the Sustainable Objective, and any deadlines for receiving the incentives that are dependent on, or related to, the Design-Builder's services, are as follows:

(Identify incentive programs the Owner intends to pursue for the Project and deadlines for submitting or applying for the incentive programs.)

§ 1.1.4

(Paragraphs deleted)

[Intentionally Deleted].

§ 1.1.5 The Owner's design and construction milestone dates:

- .1 Design phase (Phase 1) milestone dates:
 - Schematic drawings:
 - Design drawings
 - Construction drawings
- .2 Establishment of a Guaranteed Maximum Price:
- .3 Issuance of Notice to Proceed with Construction (Phase 2)
- .4 Substantial Completion date:
 - Increment No. 1:
 - Increment No. 2:
- .5 Punchlist completion:
 - Increment No. 1
 - Increment No. 2:

Note: The days established above may be revised to reflect project development and the mutual agreement of the parties.

§ 1.1.6 The Design-Builder shall retain the following Architect, Consultants, and Contractors at the Design-Builder's cost:

(List name, legal status, address and other information.)

- .1 Architect
- .2 Consultants
- .3 Contractors

§ 1.1.7 Additional
(Paragraphs deleted)

§ 1.1.8 The Design-Builder shall confirm that the information included in the Owner's Criteria complies with Applicable Laws, statutes, ordinances, codes, rules and regulations, or lawful orders of Authorities Having Jurisdiction.

§ 1.1.8.1 If the Owner's Criteria conflicts with Applicable Laws, statutes, ordinances, codes, rules and regulations, or lawful orders of Authorities Having Jurisdiction, the Design-Builder shall notify the Owner of the conflict.

§ 1.1.9 If there is a change in the Owner's Criteria, the Owner and the Design-Builder shall execute a Change Order in accordance with Article 7 of the General Conditions – Design Build.

§ 1.1.10 If the Owner and Design-Builder intend to transmit Instruments of Service or any other information or documentation in digital form, they shall endeavor to establish necessary protocols governing such transmissions.

§ 1.1.11 **Building Information Models Use and Reliance.** Design-Builder shall coordinate efforts with the Project Manager to successfully implement the BIM plan for the Project. Design-Builder will provide personnel, including a BIM Coordinator, and appropriate services to ensure the proper flow of information is provided to enable appropriate input into and output from the BIM, including, but not limited to, importing information into the BIM, providing updated information on changes to the Project Drawings and Specifications during construction, assisting on conflict resolution, coordinating the sharing of information, facilitating file exchange, and other deliverables as assigned to it in the BIM plan. Design-Builder will provide reports and other BIM deliverables as designated by Owner on a recurring basis.

§ 1.2 Project Team

§ 1.2.1 The Owner identifies the following representative:
(List name, address and other information.)

[Name]
[Title]
Oceanside School District
[Address]
Telephone Number:
Email:

[Can insert counsel here, not usual practice in California to list at this stage of the documentation.]

§ 1.2.2 The persons or entities, in addition to the Owner's representative, who are required to review the Design-Builder's Submittals and provide the other services described in the Design-Build Documents and in Section 7.11 herein are as follows:

(List name, address and other information.)

The Project Manager is:

The Project Manager shall be copied on all communications from the Design-Builder to the Owner.

§ 1.2.3 The Owner will retain the following consultants and Separate Contractors (collectively, "Owner Consultants"):
(List discipline, scope of work, and, if known, identify by name and address.)

§ 1.2.4 The Design-Builder identifies the following representative in accordance with Section 3.1.2:
(List name, address and other information.)

Telephone:
Email:

Design-Builder shall not furnish a representative over whom Owner has made reasonable and timely objection. Within **five (5)** Days of Owner's reasonable written request, Design-Builder shall replace any representative over whom Owner has made a reasonable objection.

§ 1.2.5 The Architect, employed by Design-Builder, is identified in Section 1.1.6 above.

§ 1.2.6 Neither the Owner's nor the Design-Builder's representative nor the Architect shall be changed without **ten (10)** Days' written notice to the other party. The replacement of the Design-Builder's representative shall not unduly delay or disrupt the performance of the Work.

§ 1.3 Binding Dispute Resolution

The method of binding dispute resolution shall be the following:
(Check the appropriate box.)

- Arbitration
- Litigation in a court of competent jurisdiction
- Other: (Specify)

§ 1.3.1 **Limitation on Damages.** Notwithstanding anything contained herein, Design-Builder expressly waives and relinquishes any and all right or entitlement to assert or recover any damages or losses or liabilities arising out of or related in any manner to the District's breach or default of its obligations under this Agreement

§ 1.3.2 **Liquidated Damages:** If the Design-Builder fails to achieve Substantial Completion of the Work within the Contract Time, including adjustments thereto authorized by the contract Documents, the Design Builder shall be subject to the assessment of liquidated damages at the rate of **\$1,500 per day**. The failure to complete the punchlist within sixty (60) days of its issuance shall subject the Design-Builder to liquidated damages at the rate of **\$1,000 per day**.

§ 1.4 Definitions

(Paragraphs deleted)

§ 1.4.1 **Applicable Law.** "Applicable Law" or "Applicable Laws" means any and all laws, statutes, rules, regulations, ordinances, codes, permits, or orders of any federal, state, or local agencies having Jurisdiction over the Project, all as in effect as of the date of this Agreement and as amended during the term of this Agreement including

those governing labor, equal employment opportunity, safety, and environmental protection.

§ 1.4.2 **Architect.** The "Architect" is the professional architect or engineer employed by the Design-Builder to perform all or part of the Design Services and the Construction Administration Services, as detailed herein. The Architect and its professional Consultants must be qualified to perform the Design Services and the Construction Administration Services and be licensed by the State of California in their respective professions and disciplines.

§ 1.4.3 **As-Built Documents.** "As-Built Documents" means the Drawings, Specifications, and other materials maintained by the Design-Builder that document all addenda, Architect's Supplemental Instructions, Change Orders, responses to Requests for Information, and other postings and markings that record the as-constructed conditions of the Work and all changes made to the Construction Documents during construction.

§ 1.4.4 **Authority/ies Having Jurisdiction.** "Authority Having Jurisdiction" or "Authorities Having Jurisdiction" means a federal, state, local, or other regional department, or an individual such as a fire marshal, building official, electrical inspector, utility provider or other individual having statutory authority.

§ 1.4.5 **Bridging Architect.** Bridging Architect shall mean an architect who is separately retained by the District and who had prepared an initial set of documents for use by the District and the Design-Builder. Such documents may include the following: size, type and desired design character of the Project, performance specifications covering the quality of materials, equipment, workmanship, preliminary plans or building layout, or such documents as requested by the District.

§ 1.4.5 **Building Information Model.** "Building Information Model" or "BIM" means the computable, digital, multi-dimensional representation of the physical and functional characteristics of the Project's facilities and their related life-cycle information in Autodesk Revit format and Autodesk Civil 3D, to be used as a repository of design and construction information for use by the Project Team during the design and construction phases of the Project, and for Owner's use throughout the life-cycle of the Project. Design-Builder shall coordinate all efforts with respect to the BIM in accordance with the protocols established pursuant to Section 1.1.11 above.

§ 1.4.6 **Close-out Documents.** "Close-out Documents" means the product brochures, Submittals, product/equipment maintenance and operations instructions, manuals, and other documents/warranties, As-Built Documents, Record Drawings, waiver and release of lien documents, consent of surety, and any other document required of the Design-Builder as a condition to Final Payment.

§ 1.4.7 **Confidential Information.** "Confidential Information" shall mean all information, whether or not originated by Owner, which is used in, or a part of, Owner's business and operations and is: (i) proprietary to, about, or created by Owner; (ii) gives Owner some competitive advantage or the opportunity of obtaining such advantage or the disclosure of which could be detrimental to the interests of Owner; (iii) designated as "Confidential Information" by Owner, or from all the relevant circumstances should reasonably be assumed by Design-Builder to be confidential and proprietary to Owner; or (iv) not generally known by Design-Builder. "Confidential Information" shall not include information that: (i) is or becomes available to the public generally, other than as a result of disclosure by Design-Builder in breach of the terms of this Agreement; (ii) becomes available to Design-Builder from a source (other than Owner) which source is not, to the best of Design-Builder's knowledge, subject to any legally binding obligation to keep the same confidential; or (iii) has been independently acquired or developed by Design-Builder.

§ 1.4.8 **Construction Administration Services.** "Construction Administration Services" are those certain services provided by Architect pursuant to its agreement with Design-Builder and upon issuance of the Design-Build Amendment, to assist in the administration of the Work under the Design-Build Amendment. Construction Administration Services shall include those designated in the agreement with Design-Builder, and shall at least include, but not be limited to the following: (a) visits to the Site at intervals appropriate to the type and stage of construction progress, but not less than monthly, to inspect the progress and quality of the Work and to determine if the Work is proceeding in accordance with the Design-Build Documents; (b) attendance at regular progress, Pencil Draw, and special meetings scheduled by the Owner; (c) review and certification of Applications for Payment in conjunction with Project Manager; (d) interpretation and clarification of technical intent and scope of the Construction Documents; (e) review of Submittals, as necessary; (f) consulting with Project Manager to review Change Order Requests and pricing; (g) preparing proposed changes to Drawings and Specifications, responses to Requests for Information, and Architect's Supplemental Instructions ("ASIs"); (h) administration and close-out of Design-Builder's Punchlists and

participation in Punchlist finalization walks; (i) inspections for certification of Substantial Completion and Final Completion; (j) preparation of final Record Drawings; and (k) review of Design-Builder's submission of final Close-out Documents and other items listed as required for Final Payment as set forth in the Construction General Conditions to this Agreement.

§ 1.4.9 **Construction Document(s)**. "Construction Document(s)" means, collectively, the Drawings, Specifications, details, Submittals, and other documents prepared by the Design-Builder, by and through its Architect or Architect Consultants, that describe the scope and quality of the Project and the materials, supplies, equipment, systems and other elements required for construction of the Project.

§ 1.4.10 **Consultant**. A "Consultant" is a person or entity providing professional services for the Design-Builder directly, or by or through the Architect retained by Design-Builder, for all or a portion of the Work. "Consultant" is referred to throughout the Design-Build Documents as if singular in number. To the extent required by the relevant jurisdiction, the Consultant shall be lawfully licensed to provide the required professional services.

§ 1.4.11 **Contingency**. The "Contingency" is a separately identified amount agreed to by Owner and Design-Builder included in the Cost of the Work as set forth in **Exhibit A** to be used only in the limited circumstances described in **Exhibit A** and only with Advanced written approval of the Owner. Change Orders shall be limited to those circumstances set forth in **Exhibit A**, and those applicable sections found in the General Conditions.

(Paragraph deleted)

§ 1.4.12 **The Contract**. The Design-Build Documents form the "Contract." The Contract includes this Agreement (as modified for the Project) and all other Design-Build Documents, including the General Conditions and other Exhibits hereto. This Agreement and Exhibits and represent the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Design-Build Documents shall not be construed to create a contractual relationship of any kind between any persons or entities other than the Owner and the Design-Builder. The Project Manager shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Project Manager's duties. Conflicts or inconsistencies in the Design-Build Documents shall be resolved as set forth in Section 1.4.18 below. The Contract is also referred to interchangeably throughout the Design-Build Documents as the "**Agreement**."

§ 1.4.13 **Contractor**. A "Contractor" is a person or entity performing any portion of the construction, required in connection with the Work, for the Design-Builder. Contractors shall be lawfully licensed, if required, in the jurisdiction where the Project is located. "Contractor" is referred to throughout the Design-Build Documents as if singular in number and means a Contractor or an authorized representative of the Contractor. Notwithstanding any separate references to subcontractors, sub-subcontractors, or suppliers through this Agreement, the term "Contractor" includes subcontractors and suppliers of all tiers.

§ 1.4.14 **Contract Sum**. The "Contract Sum" is the amount to be paid to the Design-Builder for performance of the Work after execution of the Design-Build Amendment, as identified in Article A.1 of the Design-Build Amendment.

§ 1.4.15 **Contract Time**. Unless otherwise provided, the "Contract Time" is the period of time, including authorized adjustments, as set forth in the Design-Build Amendment for Substantial Completion of the Work.

§ 1.4.16 **Day**. "Day" means calendar day, unless otherwise stated herein.

§ 1.4.17 **Design-Build Amendment**. The "Design-Build Amendment" shall be the amendment to the Agreement setting forth the finalized Stipulated Sum. Upon execution of the Design-Build Amendment, the Design-Build Amendment and its Exhibits shall become part of the Design-Build Documents as **Exhibit A**.

§ 1.4.18 **Design-Build Documents**. The "Design-Build Documents" consist of this Agreement between Owner and Design-Builder and its attached Exhibits; other documents listed in this Agreement; Owner provided information and documents, and Modifications issued after execution of this Agreement. A Modification is (1) a written amendment to the Contract signed by both parties, including the Design-Build Amendment, (2) a Change Order, or (3) a Change Directive. In the event of conflicts or discrepancies among the Design-Build Documents, the Design-Build Documents shall be interpreted on the basis of the following priorities: (a) Modifications (b) this Agreement, (c) **Exhibit A**, once executed, (d) the Drawings and Specifications, (e) any supplemental or special conditions, and (f)

any addenda. In case of conflicts between Drawings and Specifications, or within either the Drawings or Specifications, or within the Exhibits attached hereto and to the Design-Build Amendment, the Design-Builder shall provide the better quality or greater quantity of Work and materials unless otherwise directed by a Modification.

§ 1.4.19 Design-Builder. The "Design-Builder" is the person or entity identified as such in this Agreement and is referred to throughout the Design-Build Documents as if singular in number. The term "Design-Builder" means the Design-Builder or the Design-Builder's authorized representative. Design-Builder has been employed to design and engineer, as well as construct, the Work, and the Architect and other members of the design team will be retained by Design-Builder as Consultants, employees or Contractors under the Agreement.

§ 1.4.20 Design-Builder's Fee. The "Design-Builder's Fee" is set forth in Section A.1.4.2 of **Exhibit A** and shall be the Design-Builder's sole compensation for profit, main office, and other general overhead and costs not allocated to the Costs of the Work or defined in Design-Builder's General Conditions Costs Schedule.

(Paragraph deleted)

§ 1.4.21 Design Services. "Design Services" are those services to be provided by Design-Builder during the "Work Prior to Execution of the Design-Build Amendment" phase as outlined in Section 4.2 below and as supplemented in its agreement with the Architect.

§ 1.4.22 Drawing(s). "Drawing(s)" means the plan(s), drawing(s), profile(s), cross-section(s), and supplemental drawing(s), or reproduction(s) thereof, prepared by the Architect and approved by Owner, which show the locations, dimensions, and details of the Work for the Project.

(Paragraph deleted)

§ 1.4.23 Environmental Laws. "Environmental Laws" shall mean any and all federal, state, or local law, statute, ordinance, or regulation, whether now or hereafter in effect, pertaining to health, industrial hygiene, or the environmental conditions on, under, or about the Project or Owner's property, including without limitation the following, as now or hereafter amended: (i) the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 U.S.C.A. § 9601 *et seq.*, as amended by the Superfund Amendments and Reauthorization Act of 1986, Pub. L. No. 99-499, 100 Stat. 1613; (ii) the Resource, Conservation and Recovery Act, 42 U.S.C.A. § 6901 *et seq.*, as amended by the Used Oil Recycling Act of 1980 (Pub. L. No. 96-463, 94 Stat. 2055 (1980)), the Solid Waste Disposal Act Amendments of 1980 (Pub. L. No. 96-482, 94 Stat. 2334 (1980)), and the Hazardous and Solid Waste Amendments of 1984 (Pub. L. No. 98-616, 98 Stat. 3221 (1984)), and regulations promulgated thereunder; (iii) the Toxic Substances Control Act, 15 U.S.C.A. § 2601 *et seq.*; (iv) Emergency Planning and Community Right to Know Act of 1986, 42 U.S.C.A. § 11001 *et seq.*; (v) Clean Water Act, 33 U.S.C.A. § 1251 *et seq.* and National Pollutant Discharge Elimination System (NPDES) regulations; (vi) the Clean Air Act, 42 U.S.C.A. § 7401 *et seq.*; (vii) 2008 Lead Based Paint Renovation, Repair and Painting Program Rule, 40 CFR Part 7445, Subpart E; and (viii) any corresponding state laws or ordinances as are amended from time to time.

§ 1.4.24 Final Completion. "Final Completion" shall mean the date when the Work of the Project has been fully performed pursuant to the Design-Build Documents, including completion of any Change Orders and Construction Change Directives, but excluding warranty or repair work.

§ 1.4.25 General Conditions Costs. "General Conditions Costs" shall mean the Design-Builder's allowed reimbursable expenses, including dedicated on-Site management, administrative, and supervisory personnel costs, insurance, bonds, equipment, utilities and incidental work, including minor field labor and materials and other on-Site costs and expenses incurred by the Design-Builder in the performance of its administrative, supervisory, and management responsibilities under the Agreement.

§ 1.4.26 Stipulated Sum. Stipulated Sum means that certain non-to-exceed amount, proposed and guaranteed by Design-Builder and accepted by Owner, for construction of the Project as specified in the Design-Build Amendment.

§ 1.4.27 Hazardous Material(s) or Hazardous Substance. "Hazardous Material(s)" or "Hazardous Substance" shall mean any flammables, explosives, radioactive materials, petroleum-based materials exceeding applicable federal, state, or local regulatory limits, asbestos, polychlorinated biphenyl (PCB), radon, and other toxic substances or related materials, including without limitation substances defined as "hazardous wastes," "hazardous substances," "hazardous materials," "toxic substances," or "solid wastes" in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended, 42 U.S.C. Section 9601 *et seq.*; the Resource Conservation

and Recovery Act, 42

U.S.C. Section 2601, et seq.; and any other Applicable Law, including Environmental Laws, and all amendments and revisions thereto. The term "Hazardous Materials" shall be interpreted in the broadest sense to include any and all substances, materials, wastes, pollutants, oils, or governmental regulated substances or contaminants as defined or designated as hazardous, toxic, radioactive, dangerous, or any other similar term in or under any of the Environmental Laws, including but not limited to, asbestos and asbestos containing materials, petroleum products including crude oil or any fraction thereof, gasoline, fuels, lubricating oils and solvents, urea formaldehyde, flammable materials, explosives, PCBs, radon, radioactive materials or waste, or any other substance that, because of its quantity, concentration, physical, chemical, or infectious characteristics may cause or threaten a present or potential hazard to human health or the environment or which may impair the beneficial use of property.

§ 1.4.28 Instruments of Service. "Instruments of Service" are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Design-Builder, Architect, Contractor(s), and Consultant(s) under their respective agreements. Instruments of Service may include, without limitation, studies, surveys, models, BIM Models, sketches, Drawings, Specifications, digital models and other similar materials.

§ 1.4.29 Notice to Proceed. A "Notice to Proceed" is written authorization from the Owner to the Design-Builder specifying the date the Design Services, Preconstruction Services and Construction Work shall begin and any conditions regarding the commencement of such services and/or Work.

§ 1.4.30 Owner. The "Owner" is the person or entity identified as such in this Agreement and is referred to throughout the Design-Build Documents as if singular in number. The term "Owner" means the Owner or the Owner's designated representative. For the purposes of this Agreement "Owner" shall refer to the Oceanside Unified School District.

§ 1.4.31 Owner Consultant. An "Owner Consultant" is a person or entity providing professional services for the Owner directly for a portion of the Work. "Owner Consultant" is referred to throughout the Design-Build Documents as if singular in number. To the extent required by the relevant jurisdiction, an Owner Consultant shall be lawfully licensed to provide the required professional services.

§ 1.4.32 Preconstruction Services. Preconstruction Services" are those services set forth in Section 4.1 below to be provided by Design-Builder prior to execution of the Design-Build Amendment.

§ 1.4.33 Project. The "Project" is identified on the first page of this Contract. The Project includes the total design and construction of the Work performed under the Design-Build Documents, which may be the whole or a part.

§ 1.4.34 Project Manager. "Project Manager" means that entity identified in Section 1.2.2, comprised of licensed professionals retained by the Owner to provide general oversight within its professionals' licensed capabilities, including but not limited to project management services for the Project, strategic Project planning, Site planning, operational planning, budgetary impact analysis, scheduling analysis, review and approvals of Applications for Payment, and Project controls, all as detailed in that certain agreement between Owner and Project Manager.

§ 1.4.35 Project Schedule. The "Project Schedule" is that certain schedule prepared by Design-Builder to govern the progress and performance of the Work, as more completely described in Section 3.1.9.1 herein.

§ 1.4.36 Project Team. "Project Team" means the Owner, Design-Builder, Architect, Project Manager, Owner's designated design consultant(s), any Separate Contractors employed by Owner, and other consultants employed by any of them for the purpose of programming, design, construction, and commissioning of the Project. The constitution of the Project Team may vary at different phases of the Project. The Project Team will be designated by Owner and may be modified from time to time by Owner.

§ 1.4.37 Quality Assurance. "Quality Assurance" means the review, inspection and testing of materials and Work by Owner through its Project Manager during construction of the Work to verify Design Builder's compliance with the Design-Build Documents as to performance, effectiveness, and freedom of the Work from defects or errors.

§ 1.4.38 Quality Control. "Quality Control" means a program of testing, coordination, start-up, operational checkout and commissioning of all items of Work included in the Project by Design-Builder that ensures

conformance of the Work with the Design-Build Documents.

§ 1.4.39 **Record Drawings.** "Record Drawings" are those final, compiled drawings, prepared by the Architect and approved by the Architect and Design-Builder after review of the As-Built Documents and Design-Builder's notes, drawings, and markings thereupon, wherein Architect verifies, in accordance with its standard of care, the as-built conditions of the Work.

§ 1.4.40 **Site.** "Site" means the property on which the Project is located.

§ 1.4.41 **Specifications.** The "Specifications" are those portions of the Design-Build Documents prepared by the Architect consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.

§ 1.4.42 **Submittal.** A "Submittal" is any submission by the Design-Builder to the Owner for review and approval, demonstrating how the Design-Builder proposes to conform to the Design-Build Documents for those portions of the Work for which the Design-Build Documents require Submittals. Submittals include, but are not limited to, shop drawings, product data, and samples.

§ 1.4.43 **Substantial Completion.** Design-Builder shall be required to achieve Substantial Completion no later than the date set forth in Section A.2.2 of **Exhibit A**.

§ 1.4.44 **Work.** "Work" means the design, construction, and related services required to fully design and construct the Project consistent with Owner's Criteria, , Owner's budget, the Design-Build Documents, industry standards, and Applicable Laws. The Work includes, but is not limited to services provided during the "Work Prior to the Execution of the Design-Build Amendment" stage, the services provided by Design-Builder, Architect, Contractors and others during the "Work Following Execution of the Design-Build Amendment" stage, and other services required of Design-Builder as set forth herein.

ARTICLE 2 COMPENSATION AND PROGRESS PAYMENTS

§ 2.1 Compensation for Work Performed Prior To Execution of Design-Build Amendment

§ 2.1.1 Unless otherwise agreed, payments for Work performed prior to execution of the Design-Build Amendment shall be made monthly, based on the following schedule: No later than the 20th Day of the month (or the next business day if the 20th is not a business day), the Design-Builder shall submit to the Project Manager and Owner, a preliminary draft of that month's Preconstruction and Design Services Invoice in a format to be approved by the Owner. . The Owner and/or Project Manager may require modifications to the Invoice and Owner shall notify Design-Builder of such changes within seven (7) days of receipt of the invoice. Invoice Design-Builder shall revise the Invoice in accordance with any objections or recommendations of the Owner or Project Manager that are consistent with the requirements of the Design-Build Documents. Undisputed amounts shall be paid within thirty (30) days of the receipt of the Invoice. The Design-Builder shall also submit with each Preconstruction and Design Services Invoice such supporting documentation as required by Owner, including, but not limited to conditional lien waivers from the Design Builder, Architect, all Consultants and Contractors.

§ 2.1.2 For the Design-Builder's performance of Work during the Pre-Construction Phase of the Work, the Owner shall compensate the Design-Builder for the stipulated sum of \$ _____. The Preconstruction stipulated sum will form part of the overall Stipulated Sum for the Work, found in the Amendment to this Agreement.

§ 2.1.3 Compensation for Reimbursable Expenses Prior To Execution of Design-Build Amendment

§ 2.1.3.1 Reimbursable Expenses are in addition to compensation set forth in Section 2.1.1 and 2.1.2 and include expenses, directly related to the Project, incurred by the Design-Builder and the Design-Builder's Architect, Consultants, and Contractors as follows:

- .1 Transportation and authorized travel outside San Diego County and subsistence, but only when approved by Owner in advance in writing;
- .2 Dedicated data and communication services, teleconferences, Project websites, and extranets;
- .3 Permitting and other fees required by Governmental Agencies Authorities Having Jurisdiction;
- .4 Printing, reproductions, plots, standard form documents;
- .5 Postage, handling and delivery;
- .6 Renderings, physical models, mock-ups, professional photography, and presentation materials requested by the Owner or required for the Project;

- .7 If required by the Owner, and only with the Owner's prior written approval, the Architect's Consultants' expenses of professional liability insurance dedicated exclusively to this Project or the expense of additional insurance coverage or limits in excess of that normally maintained by the Architect, and/or Architect's Consultants;
- .8 All taxes levied on reimbursable expenses except those taxes from which the Project or Owner is exempt;
- .9 Site office expenses; and
- .10 Registration fees and any other fees charged by Authorities Having Jurisdiction or by other entities as necessary to achieve the Sustainable Objective (if any).

§ 2.1.3.2 Compensation for Reimbursable Expenses shall be paid at cost by the Owner without additional markups or fees.

§ 2.1.4 Payments to the Design-Builder Prior To Execution of Design-Build Amendment

§ 2.1.4.1 Payments are due and payable
(Paragraphs deleted)

Within **thirty (30)** Days after approval of the Design-Builder's Preconstruction and Design Services Invoice by the Owner and the Project Manager. Invoices shall be in such form as **prepared by Owner** and shall categorize services provided into "Preconstruction Services" and "Design Services" with such level of detail as prescribed by Owner.

§ 2.1.4.2 Records of Reimbursable Expenses and services performed on the basis of hourly rates shall be available to the Owner at mutually convenient times.

§ 2.2 Contract Sum and Payment for Work Performed After Execution of Design-Build Amendment

For the Design-Builder's performance of the Work after execution of the Design-Build Amendment, the Owner shall pay to the Design-Builder the Contract Sum in current funds as agreed in **Exhibit A** and accompanying General Conditions.

ARTICLE 3 GENERAL REQUIREMENTS OF THE WORK OF THE DESIGN-BUILD CONTRACT

§ 3.1 General

§ 3.1.1 The Design-Builder shall comply, and shall require its Architect, Consultants, and Contractors to comply with any applicable licensing requirements in the jurisdiction where the Project is located. The Design-Builder shall perform the Work in a good and workmanlike manner, in accordance with industry standards, Applicable Laws, the Design-Build Documents, and the Project Schedule. Design-Builder will perform the Work described in the Design-Build Documents consistent with the professional skill, diligence and care ordinarily provided by competent members of the architectural, engineering and construction professions practicing in the area of the location of the Project under the same or similar circumstances (the "Standard of Care"). The Design-Builder will perform its Work as expeditiously as is consistent with the Standard of Care and the orderly progress of the Project. Design-Builder is responsible for the accuracy and sufficiency of all plans, Drawings, and Specifications prepared for the Project by Design-Builder, Architect, any Consultant, and any Contractor it retains for the Project. All architectural and engineering services shall be procured from licensed, independent design professionals retained by the Design-Builder or furnished by licensed employees of the Design-Builder.

§ 3.1.2 The Design-Builder's representative who is authorized to act on the Design-Builder's behalf with respect to the Project is set forth in Section 1.2.4. Design-Builder's representative shall be the Design-Builder's primary point of contact during all phases (Preconstruction Services, Design Services, and Construction of the Work) of the Project. Design Builder's representative shall not be changed without advance written approval from Owner, which shall not be unreasonably withheld.

§ 3.1.3 The Design-Builder shall perform the Work in accordance with the Design-Build Documents. The Design-Builder shall not be relieved of the obligation to perform the Work in accordance with the Design-Build Documents by the activities, tests, inspections, duties, or approvals of the Owner or the Project Manager, or by tests, inspections, duties, or approvals required or performed by persons or entities other than the Design-Builder. In the event of any dispute between Owner and Design-Builder, Design-Builder shall continue performance of the Work, without interruption or delay.

§ 3.1.3.1 As further describe in the Construction Phase General Conditions, Design-Builder accepts the level of

trust and confidence between the Design-Builder and Owner established by this Agreement. Design-Builder covenants to the Owner that it will exercise the Design-Builder's best skill and judgment in furthering the interests of the Owner on the Project. To that end, Design-Builder agrees that it will furnish efficient Construction Administration (including those services provided by Architect by and through Design-Builder), management services, and supervision to the Project and that it will provide, at all times, an adequate supply of workers and materials to design and construct the Project. Design-Builder shall perform the Work in an expeditious and economical manner consistent with the Owner's interests, in compliance with all Applicable Laws, rules, regulations, and lawful orders of Authorities Having Jurisdiction. If the Design-Builder performs Work contrary to Applicable Laws, rules, regulations, and lawful orders of Authorities Having Jurisdiction, the Design-Builder shall assume responsibility for such Work and shall bear the costs attributable to such correction, which correction shall be subject to approval by Owner.

§ 3.1.3.2 Neither the Design-Builder nor any Contractor, Consultant, or Architect shall be obligated to perform any act which they believe will violate any Applicable Laws, rules, regulations, or lawful orders of Authorities Having Jurisdiction. If the Design-Builder determines that implementation of any instruction received from the Owner, including those in the Owner's Criteria, would cause a violation of any Applicable Laws, rules, regulations, or lawful orders of Authorities Having Jurisdiction, the Design-Builder shall notify the Owner in writing. Upon verification by the Owner that a change to the Owner's Criteria is required to remedy the violation, the Owner and the Design-Builder shall execute a Change Order in accordance with Article 7 of the General Conditions – Design Build.

§ 3.1.3.3 **Agreement of Cooperation.** Design-Builder shall use its best efforts to design and construct the Project in a coordinated, careful and harmonious fashion and in the most efficient and expeditious manner consistent with the Owner's interests, the Project, and Applicable Law. Design Builder agrees to provide a high degree of cohesion, cooperation, collaboration, coordination and teamwork to the Project. To this end, Design Builder shall deliver the Work on time and within the Stipulated Sum and will provide cost-effective capital solutions, innovation and resource stewardship while completing the Work under this Agreement, including complete coordination and cooperation with the Owner and Project Manager. Design-Builder shall communicate promptly to Owner any and all concerns that Design-Builder may have with regard to the Work, or services of others on the Project, including, without limitation, any defects or potential defects in planning, design, or construction of the Work, and shall cooperate with Owner and other professionals and experts if errors or omissions are discovered in the Design-Build Documents.

§ 3.1.3.4 **Communication and Reporting.** Design-Builder will establish procedures for effective communication and coordination among the Project Team, Architect, Consultants, Contractors, Owner Consultants, and others regarding the design and construction of the Project, and implement and continuously modify such procedures as necessary. To the extent of an apparent conflict in the sequencing of the Work or services with another service provider, Design-Builder shall report the concern to the Project Manager. Design-Builder shall coordinate delivery and installation of Owner-procured material and equipment and shall cooperate with any commissioning agent, Consultant, vendor, or service provider engaged by Owner.

§ 3.1.4 DESIGN-BUILDER IS RESPONSIBLE TO OWNER FOR ALL ACTS AND OMISSIONS OF DESIGN-BUILDER'S EMPLOYEES, ARCHITECT, CONSULTANTS, CONTRACTORS, AND THEIR AGENTS AND EMPLOYEES, AND ANY OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH DESIGN-BUILDER OR ITS ARCHITECT, CONSULTANTS OR CONTRACTORS, OR ANYONE OVER WHOM DESIGN-BUILDER OR ITS ARCHITECT, CONSULTANTS OR CONTRACTORS EXERCISE CONTROL.

§ 3.1.5 **General Consultation.** The Design-Builder shall schedule and conduct periodic meetings with the Owner to review matters such as procedures, progress, coordination, and scheduling of the Work. Design-Builder shall actively participate in all meetings and/or teleconferences to bring the full measure of Design-Builder's collective experience, expertise and recommendations to the Project as it pertains to the overall Project or to a specific discipline including, but not limited to, all explanatory presentations with the Architect, Consultants, and/or Contractors as may be requested by Owner, and matters concerning the proposed Site use and improvements, selection of materials, and building systems and equipment. Design-Builder shall attend regularly scheduled and any interim Project progress meetings and fully advise the Owner of the Project status including progress, schedule, costs, quality, and proposed changes.

§ 3.1.5.1 Design-Builder shall be responsible for preparing and distributing (on the business day preceding the meeting) to Owner and Project Manager, a written agenda for all meetings, in a form and with such content as reasonably required by Owner, which includes a status report of all pending Submittals, RFIs, known or anticipated impediments to construction, accidents and injuries, pending business/action items (with a designation of who is responsible for each pending item), and all other information required by Section 3.1.8 below. When it appears to Owner or Design-Builder that a contract milestone or completion date cannot be met for reasons not the fault of the Design-Builder, Owner may request a plan and a budget from Design-Builder that will provide input on any schedule revisions and/or increased costs, if any, to accelerate or suspend the Work.

§ 3.1.5.2 Design-Builder represents and warrants to Owner that it and its employees, Consultants, and Contractors are experienced in the type of design and construction necessary to perform and complete the Design Services and Work required under this Agreement. Design-Builder understands the complexity involved in this type of design and construction and the necessity of coordination of its Work with the Owner, Owner Consultants, Separate Contractors, and Authorities Having Jurisdiction.

§ 3.1.6 When Applicable Law requires that services be performed by licensed professionals, the Design-Builder shall provide those services through qualified, licensed professionals.

§ 3.1.7 The Design-Builder, with the assistance of the Owner, shall prepare and file all documents required to secure approval and receive permits of all Authorities Having Jurisdiction in a manner so as not to delay the Project Schedule. All requests for reimbursement for any direct costs associated with submitting documents to such Authorities Having Jurisdiction and for permit fees shall be included as Reimbursable Expenses and paid pursuant to Section 2.1.3 of this Agreement. The Design-Builder shall file and obtain approval of the Construction Documents from the California

§ 3.1.8 Progress Reports

§ 3.1.8.1 The Design-Builder shall keep the Owner informed of the progress and quality of the Work. On a weekly basis, or otherwise as agreed to by the Owner and Design-Builder, the Design-Builder shall submit written progress reports to the Owner and Project Manager, reporting Design-Builder's assessment of the progress of the Work, estimated percentages of completion, and other information identified below:

- .1 Work completed for the period and any discrepancies with its conformance with the Design-Build Documents;
- .2 Project Schedule status and any look-ahead schedules;
- .3 Submittal schedule and status report, including a summary of outstanding Submittals;
- .4 Responses to Requests for Information;
- .5 Approved Change Orders and Change Directives;
- .6 Pending Change Order and Change Directive status reports;
- .7 Tests and inspection reports;
- .8 Status report of Work rejected by the Owner;
- .9 Status of Claims previously submitted;
- .10 Cumulative total of the Cost of the Work to date including the Design-Builder's compensation and Reimbursable Expenses, if any;
- .11 Current Project cash-flow and forecast reports;
- .12 Storage inventory, purchase order status, equipment, and material supply issues identified; and
- .13 Additional information as agreed to by the Owner and Design-Builder.

§ 3.1.8.2 In addition, and upon request by the Owner, the Design-Builder shall include the following additional information in its progress reports:

- .1 Design-Builder's work force report and Daily Log reporting including weather conditions, any delay impacts, Work performed, number of workers by company by trade, and any other information requested by Owner;
- .2 Equipment utilization report;
- .3 Cost summary, comparing actual costs to updated cost estimates;
- .4 Contractor invoices supporting the costs billed for the period;
- .5 Executed Conditional Waiver and Release on Progress Payment documents for current draws from Design-Builder, Architect, all Consultants, and Contractors; and
- .6 Any other evidence reasonably required by Owner to assist in the confirmation and validation of the Cost of the Work.

§ 3.1.9 Design-Builder's Schedules

§ 3.1.9.1 Project Schedule. Within **thirty (30)** Days after execution of this Agreement, Design-Builder shall prepare and submit for Owner's information a Project Schedule for the Work. The Project Schedule will include various dates critical to the progress of the Project, including design milestones applicable to the design phases in Design Services set forth in Section 4.2, deliverables to the Owner, mobilization, procurement, installation, testing, inspection, the Required Date of Substantial Completion, the Final Completion date, any interim milestone dates, delivery of

Close-out Documents, acceptance of all Work required under this Agreement and the Design-Build Amendment, and any other details required for tracking the progress of the Work. The Project Schedule shall be computerized Critical Path Method (CPM) with fully editable logic with adequate detail so the schedule is capable of measuring and forecasting the effect of delaying events on completed and uncompleted activities. The Project Schedule and all monthly updates should address Submittal activities as well as actual field construction activities. The Project Schedule shall not exceed time limits current under the Design-Build Documents, shall be revised at appropriate intervals as required by the conditions of the Work and Project, shall be related to the entire Project, shall provide for expeditious and practicable execution of the Work, and shall include allowances for periods of time required for the Owner's review and for approval of submissions by Authorities Having Jurisdiction. All Project Schedule updates shall address the subject of how the Design-Builder intends to address any critical path delays previously encountered.

§ 3.1.9.2 The Design-Builder shall perform the Work in accordance with the most recent schedules submitted to and approved by the Owner. Failure of the Work to proceed in the sequence scheduled by Design-Builder shall not alone serve as the basis for a Claim for additional compensation or time. In the event there is interference with the Work which is beyond its control, Design-Builder shall attempt to reschedule the Work in a manner that will hold resulting additional time and costs to a minimum.

§ 3.1.9.3 Whenever it becomes apparent from the updated Project Schedule or progress report that any critical date previously established by the Project Schedule is more than **ten (10)** Days behind schedule and may not be met, the Design-Builder shall, at the Owner's request, take any or all of the following actions with no increase to the Contract Sum or Contract Time (unless the delay is otherwise approved by Owner with an increase in the Contract Sum or Contract Time via Change Order):

- (a) Increase construction manpower and perform overtime to substantially eliminate the back-log of Work and return the Project to schedule;
- (b) Increase the number of working hours per shift, shifts per Day, working Days per week, the amount of construction equipment, or any combination of the foregoing which will substantially eliminate the back-log of Work and return the Project to schedule;
- (c) Reschedule activities to concurrently accomplish activities, to the maximum degree practicable, in the time required by the Design-Build Documents; and
- (d) Take such other action as may be requested or directed by the Owner to return the Project to schedule.

If the Design-Builder fails to take any of these actions within **three (3)** Days after receiving notice from the Owner, the Owner may in addition to its other rights and remedies (i) take action to attempt to return the Project to schedule, and (ii) deduct the cost of such actions from the monies due or to become due to the Design-Builder, unless the delay is an Excusable Delay and the Owner requests the Design-Builder to submit a recovery plan to resolve the effects of said delay. Design-Builder shall not be entitled to compensation from the Owner or any increase in the Guaranteed Maximum Price for the scheduled recovery efforts, except as to causes of delay to the critical path as allowed, and not caused by the Design-Builder, its Architect, any Consultant, or any Contractor. No approval or consent by the Owner of any plan for re-sequencing or acceleration of the Work submitted by Design-Builder pursuant to this Section shall constitute a waiver by Owner of any damages or losses which Owner may suffer and for which Design-Builder is liable hereunder by reason of such re-sequencing or the failure of Design-Builder to meet the Required Date of Substantial Completion or other requirements of the Agreement with regard to the Contract Time. The Owner may exercise the rights furnished pursuant to this Section 3.1.9.3 as frequently as the Owner deems necessary to facilitate the Design-Builder's performance of the Work's compliance with the Required Date of Substantial Completion, Final Completion date, and other critical dates set forth in the Design-Build Documents or accepted Project Schedule.

§ 3.1.9.4 Daily Log. Unless and until instructed otherwise in writing by Owner, Design-Builder shall prepare a daily log (the "Daily Log") containing: (i) a record for each Day's weather; (ii) a statement of which Days since the previous monthly report are claimed by Design-Builder to be subject of a weather delay; (iii) portions of the Work in

progress and accomplished; (iv) identification of Contractors and Consultants on the Site; (v) identification of all equipment on the Site; (vi) problems or anticipated delays that might affect progress of the Work; (vii) all accidents or injuries that may have occurred; and (viii) any other information that may be requested by Owner or Project Manager. The log shall be made available to Owner and Project Manager.

§ 3.1.10 **Certifications.** With each Application for Payment, the Design-Builder shall obtain from the Architect, Consultants, and Contractors, and furnish to the Owner, certifications with respect to the documents and services provided by the Architect, Consultants, and Contractors (a) that, to the best of their knowledge, information and belief, the documents or services to which the certifications relate (i) are consistent with the Design-Build Documents, except to the extent specifically identified in the certificate, and (ii) comply with Applicable Laws, statutes, ordinances, codes, rules and regulations, or lawful orders of Public Agencies having Jurisdiction governing the design of the Project; and (b) that the Owner and the Owner Consultants shall be entitled to rely upon the accuracy of the representations and statements contained in the certifications. The Design-Builder's Architect, Consultants, and Contractors shall not be required to execute certificates or consents that would require knowledge, services or responsibilities beyond the scope of their services.

§ 3.1.11 **Design-Builder's Submittals**

§ 3.1.11.1 Prior to submission of any Submittals, the Design-Builder shall prepare a Submittal schedule, and shall submit the schedule for the Owner's approval. The Owner's approval shall not unreasonably be delayed or withheld. The Submittal schedule shall (1) be coordinated with the Design-Builder's Project Schedule provided in Section 3.1.9.1, (2) allow the Owner and Project Manager reasonable time to review Submittals, and (3) be periodically updated to reflect the progress of the Work. If the Design-Builder fails to submit a Submittal schedule or fails to provide Submittals in accordance with the approved Submittal schedule, the Design-Builder shall not be entitled to any increase in Contract Sum or extension of Contract Time based on the time required for review of Submittals.

§ 3.1.11.2 By providing Submittals the Design-Builder represents to the Owner that it has (1) reviewed any materials and equipment specified by the Bridging Architect and will provide an explanation in the event the Design-Builder elects to use different materials and equipment, (2) determined and verified materials, field measurements and field construction criteria related thereto, or will do so if Work is not yet in place, and (3) checked and coordinated the information contained within such Submittals with the requirements of the Work and of the Design-Build Documents.

§ 3.1.11.3 The Design-Builder shall perform no portion of the Work for which the Design-Build Documents require Submittals until the Owner and Project Manager have approved the respective Submittal.

§ 3.1.11.4 The Work shall be in accordance with approved Submittals except that the Design-Builder shall not be relieved of its responsibility to perform the Work consistent with the requirements of the Design-Build Documents. The Work may deviate from the Design-Build Documents only if the Design-Builder has notified the Owner in writing of a deviation from the Design-Build Documents at the time of the Submittal and a Modification is executed authorizing the identified deviation. The Design-Builder shall not be relieved of responsibility for errors or omissions in Submittals by the Owner's or Project Manager's approval of the Submittals.

§ 3.1.11.5 All professional Design Services or certifications to be provided by the Design-Builder, including all Drawings, calculations, Specifications, certifications, shop drawings and other Submittals, shall contain the signature and seal of the licensed design professional preparing them. Submittals related to the Work designed or certified by the licensed design professionals, if prepared by others, shall bear the licensed design professional's written approval. The Owner and the Owner Consultants shall be entitled to rely upon the adequacy, accuracy and completeness of the services, certifications or approvals performed by such design professionals.

(Paragraph deleted)

§ 3.1.11.6 Design-Builder shall coordinate all shop drawings and review them for accuracy, completeness, and compliance with Design-Build Documents and shall indicate its approval thereon as evidence of such coordination and review pursuant to Section 3.1.11.2. Shop drawings submitted to the Owner and Project Manager without evidence of the Design-Builder's approval may be returned for resubmission. The Owner or Project Manager will indicate an approval or disapproval of the shop drawings and, if not approved as submitted, shall indicate reasons therefore. Any Work performed before such Owner or Project Manager approval shall be at the Design-Builder's risk.

Approval by Owner or Project Manager shall not relieve the Design-Builder from responsibility for any errors or omissions in such drawings or from responsibility for complying with the requirements of this Agreement.

§ 3.1.12 Warranty

§ 3.1.12.1 The Design-Builder warrants to the Owner that the Work will be performed in a good and workmanlike manner and that materials and equipment furnished under the Contract will be of specified quality, recent manufacture, and new. The Design-Builder further warrants that the Work will conform to the requirements of the Design-Build Documents, will be complete in all parts and with the required finishes, in accordance with approved practices and customs, and free from defects. Work, materials, or equipment not conforming to these requirements, including substitutions not properly approved and authorized, shall be considered defective. The Design-Builder's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Design-Builder, improper or insufficient maintenance, improper operation, or normal wear and tear, and normal usage. If required by the Owner, the Design-Builder shall furnish satisfactory evidence as to the kind and quality of materials and equipment. The warranties set out in this subsection are in addition to and not exclusive of any other warranties or guarantees set out in other places in the Design-Build Documents, or implied under Applicable Law, or the Design-Builder's obligations under the corrective period set out in Article 11 below. Design-Builder's obligation to perform the Work in a good and workmanlike manner in accordance with the Design-Build Documents is absolute and no actions of Owner or Project Manager shall act to waive Design-Builder's obligations hereunder.

§ 3.1.12.2 Design-Builder shall furnish individual written warranties to the Owner for each product, building component, system or equipment specified to have a written warranty and incorporating the warranty of this Section 3.1.12.2. Such separate warranties shall be deemed to run from Substantial Completion regardless of whether the product, building component, system or equipment was placed into service prior to Substantial Completion.

§ 3.1.12.3 If extended warranties in addition to those required by the Design-Build Documents are available from Consultants, Contractors, manufacturers, or suppliers, Design-Builder shall advise Owner of such availability and the cost thereof and, if requested by Change Order, shall purchase the extended warranty for Owner's benefit, in which event the Change Order shall reflect an increase in the Contract Sum equal to the cost of the extended warranty submitted to and accepted by Owner.

§ 3.1.12.4 All guarantees and warranties of materials and services furnished to Design-Builder or any Consultant, Contractor, manufacturer, or supplier shall be assigned to Owner and be deemed to run for the benefit of the Owner. Design-Builder hereby assigns to Owner the benefits of all guarantees and warranties of all Consultants, Contractors, manufacturers, and suppliers engaged for the Project, but such assignment shall not relieve Design-Builder of its warranty obligations to Owner under the Design-Build Documents or Applicable Law. During the two (2) year period set forth in Section 11.2, Design-Builder shall enforce the Contractors', manufacturers', and suppliers' warranties for the benefit of Owner or its assigns. After expiration of such period, the Design-Builder shall continue to aid Owner in enforcing any continuing warranties assigned to Owner. The Design-Builder further agrees to perform the Work in such a manner so as to preserve any and all such guarantees and warranties. Design-Builder's warranties shall be in addition to any warranties, indemnities, claims, rights, actions or remedies that Owner may have in the Design-Build Documents, or at law, or in equity, for defective Work or breach of the Design-Build Documents, or otherwise provided under any repose period.

§ 3.1.13 Royalties, Patents and Copyrights

§ 3.1.13.1 The Design-Builder shall pay all royalties and license fees.

§ 3.1.13.2 The Design-Builder shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner, Project Manager, and Owner Consultants harmless from loss on account thereof as set forth in Section 3.1.14.3 below, but shall not be responsible for such indemnity, defense or loss when a particular design, process or product of a particular manufacturer or manufacturers is required by the Owner, or where the copyright violations are required in the Owner's Criteria. However, if the Design-Builder has reason to believe that the design, process or product required in the Owner's Criteria is an infringement of a copyright or a patent, the Design-Builder shall be responsible for such indemnity, defense or loss unless such information is promptly furnished to the Owner. If the Owner receives notice from a patent or copyright owner of an alleged violation of a patent or copyright, attributable to the Design-Builder, the Owner shall give prompt written notice to the Design-Builder.

§ 3.1.14 Indemnification

§ 3.1.14.1 GENERAL. TO THE FULLEST EXTENT PERMITTED BY LAW, AND EXCEPT AS SET OUT IN SECTIONS 3.1.14.2 AND 3.1.14.3 BELOW, DESIGN-BUILDER SHALL INDEMNIFY, HOLD HARMLESS AND DEFEND OWNER, ITS OFFICERS, DIRECTORS, AGENTS AND EMPLOYEES (THE "INDEMNITEES" AND INDIVIDUALLY "INDEMNITEE"), FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING, BUT NOT LIMITED TO REASONABLE ATTORNEYS' FEES, ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF THE WORK OR OTHER ACTIVITIES OF DESIGN-BUILDER, ARCHITECT, ANY CONSULTANT, OR ANY CONTRACTOR, INCLUDING, BUT NOT LIMITED TO (1) THE VIOLATION OF ANY ORDINANCE, REGULATION, STATUTE OR OTHER APPLICABLE LAW BY DESIGN-BUILDER, ARCHITECT, ANY CONSULTANT, OR ANY CONTRACTOR (OR ANY OF THEIR EMPLOYEES) OF ANY TIER; (2) ANY BOND OR LIEN CLAIM ASSERTED BY ARCHITECT, ANY CONSULTANT, OR ANY CONTRACTOR OF ANY TIER FOR WORK OR MATERIALS PROVIDED TO THE PROJECT, TO THE EXTENT PAYMENT HAS BEEN RECEIVED FROM OWNER; (3) BODILY INJURY OR DEATH OF ANY PERSON, OR PROPERTY DAMAGE, INCLUDING LOSS OF USE OF PROPERTY, EXCEPT TO THE EXTENT CAUSED BY THE NEGLIGENT ACTS OR OMISSIONS OF OWNER OR ANY OF THE INDEMNITEES.

§ 3.1.14.2 EMPLOYEE INJURY CLAIMS. IN ADDITION TO THE INDEMNIFICATION PROVIDED IN SECTIONS 3.1.14.1 AND 3.1.14.3, DESIGN-BUILDER SHALL INDEMNIFY, DEFEND, AND HOLD HARMLESS OWNER AND ALL INDEMNITEES FROM AND AGAINST ANY CLAIM, DAMAGE, LOSS, OR EXPENSE (INCLUDING BUT NOT LIMITED TO REASONABLE ATTORNEYS' FEES AND COSTS), ARISING OUT OF, RESULTING FROM, OR ATTRIBUTABLE TO ANY CLAIM OF BODILY INJURY, SICKNESS, DISEASE OR DEATH OF ANY EMPLOYEE OF DESIGN-BUILDER, ARCHITECT, ANY CONSULTANT, OR ANY CONTRACTOR, OR ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY DESIGN-BUILDER, ARCHITECT, ANY CONSULTANT, OR ANY CONTRACTOR, BROUGHT BY SUCH INJURED EMPLOYEE OR THE EMPLOYEE'S WORKERS' COMPENSATION INSURANCE CARRIER (HEREINAFTER REFERRED TO AS AN "EMPLOYEE INJURY CLAIM"), EVEN TO THE EXTENT SUCH CLAIM, DAMAGE, LOSS OR EXPENSE IS ALLEGED TO BE CAUSED, IN WHOLE OR IN PART, BY THE SOLE OR CONCURRENT NEGLIGENCE OF OWNER OR ANY INDEMNITEE, IT BEING THE EXPRESSED INTENT OF THE OWNER AND DESIGN-BUILDER THAT, IN SUCH EVENT, THE DESIGN-BUILDER IS TO INDEMNIFY, HOLD HARMLESS AND DEFEND THE OWNER AND INDEMNITEES FROM THE CONSEQUENCES OF THEIR OWN NEGLIGENCE, WHETHER IT IS ALLEGED TO BE THE SOLE OR CONCURRING CAUSE OF THE BODILY INJURY, SICKNESS, DISEASE OR DEATH OF THE EMPLOYEE. THE INDEMNIFICATION OBLIGATIONS UNDER THIS PARAGRAPH SHALL NOT BE LIMITED BY ANY LIMITATION ON THE AMOUNT OR TYPE OF DAMAGES, COMPENSATION OR BENEFITS PAYABLE BY OR FOR DESIGN-BUILDER UNDER WORKERS' COMPENSATION ACTS, DISABILITY BENEFIT ACTS OR OTHER EMPLOYEE BENEFIT ACTS. DESIGN-BUILDER SHALL PROCURE LIABILITY INSURANCE COVERING ITS OBLIGATIONS UNDER THIS PARAGRAPH.

(Paragraphs deleted)

§ 3.1.14.3 COPYRIGHT INFRINGEMENT CLAIMS. IN ADDITION TO THE INDEMNIFICATION PROVIDED IN SECTIONS 3.1.14.1 AND 3.1.14.2 ABOVE, DESIGN-BUILDER SHALL INDEMNIFY, DEFEND, AND HOLD HARMLESS OWNER AND ANY INDEMNITEE(S) FROM AND AGAINST ANY CLAIM, DAMAGE, LOSS, OR EXPENSE (INCLUDING BUT NOT LIMITED TO REASONABLE ATTORNEYS' FEES AND COSTS) ARISING OUT OF OR RELATING TO ANY CLAIM AGAINST OWNER OR INDEMNITEES ASSERTING INFRINGEMENT OR ALLEGED INFRINGEMENT OF A PATENT, TRADEMARK, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT IN CONNECTION WITH THE INSTRUMENTS OF SERVICE FURNISHED BY OR THROUGH DESIGN-BUILDER, ARCHITECT, ANY CONSULTANT, OR ANY CONTRACTOR, EVEN TO THE EXTENT SUCH CLAIM, DAMAGE, LOSS, OR EXPENSE IS CAUSED OR IS ALLEGED TO BE CAUSED, IN WHOLE OR IN PART, BY THE SOLE OR CONCURRENT NEGLIGENCE OF OWNER OR ANY OF THE INDEMNITEES OR ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY THEM.

§ 3.1.14.4 In claims against any person or entity indemnified under Section 3.1.14 by an employee of the Design-Builder, Architect, a Consultant, a Contractor, or anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligations hereunder shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Design-Builder, Architect, a Consultant, or a Contractor under workers' compensation acts, disability benefit acts or other employee benefit acts.

§ 3.1.14.5 It is agreed with respect to any legal limitations now or hereafter in effect and affecting the validity or enforceability of the indemnification obligations under this Section or the Additional Insured requirements herein, such legal limitations are made a part of the contractual obligations and shall operate to amend the obligations to the minimum extent necessary to bring the provision into conformity with the requirements of such limitations, and as so modified, the obligations shall continue in full force and effect. Should any provision in this Agreement be held invalid, unenforceable or contrary to public policy, law, statute or ordinance, then the remainder of the provision, paragraph, Section and/or Agreement shall not be affected thereby and shall remain valid and fully enforceable.

§ 3.1.14.6 Insurance covering the indemnification obligations of Design-Builder under the foregoing paragraphs shall be provided by Design-Builder, but Design-Builder's liability to Owner as provided herein shall not be limited by the amount of the insurance coverage(s) required of and provided by Design-Builder.

§ 3.1.14.7 In the event that any claim, damage, demand, cost, loss, expense or injury arises or is made, asserted or threatened against Owner or any Indemnitee, Owner shall have the right to withhold from any payments due or to become due to Design-Builder an amount sufficient in its judgment to protect and indemnify the Indemnitee from any and all such claims, damages, demands, costs, losses, expenses or injuries (including, without limitation, legal fees and disbursements) except to the extent covered by insurance proceeds.

§ 3.1.14.8 The obligations contained in this Section 3.1.14 shall survive the expiration, completion, abandonment, and/or termination of this Agreement and Final Completion of the Work.

§ 3.1.15 Contingent Assignment of Agreements

§ 3.1.15.1 Each agreement for a portion of the Work is assigned by the Design-Builder to the Owner, provided that

1. assignment is effective only after termination of the Contract by the Owner, pursuant to Section 13 of the General Conditions – Design Build, and only for those agreements that the Owner accepts by written notification to the Design-Builder and the Architect, Consultants, and Contractors whose agreements are accepted for assignment; and
2. assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

§ 3.1.15.2 When the Owner accepts the assignment of an agreement under this Section 3.1.15.2, the Owner assumes the Design-Builder's rights and obligations under that agreement. Owner shall only be responsible for those obligations of Design-Builder that (i) accrued prior to Owner's exercise of any rights under the conditional assignment and for which Owner has not made payment to Design-Builder, and (ii) accrue subsequent to Owner's exercise of any rights under the conditional assignment. Each agreement shall so limit Owner's liability upon exercise of its rights under the conditional assignment. Nothing contained herein shall waive Design-Builder's obligations that arise out of Work performed under any agreement prior to Owner's acceptance of the assignment. Upon such assignment to the Owner under this Section 3.1.15.2, the Owner may further assign the agreement to a successor design-builder or other entity.

§ 3.1.15.3 Upon such assignment, if the Work has been suspended for more than **ninety (90)** Days, then the compensation of the Architect, Consultant, or Contractor whose agreement has been accepted for assignment by Owner, may be equitably adjusted for increases in cost resulting from the suspension.

§ 3.1.15.4 Notwithstanding the foregoing, in the event of a termination for convenience under Section 13.4 of the General Conditions – Design Build, Design-Builder's rights under each agreement with regard to the respective Architect's, Consultant's, or Contractor's obligation to correct defective or non-conforming Work or with regard to the respective Architect's, Consultant's, or Contractor's warranty obligations for portions of the Work performed by such entity are assigned by the Design-Builder to the Owner in the event of such termination on a non-exclusive basis such that Owner shall also have the right to enforce such obligations.

§ 3.1.16 **Design-Builder's Insurance and Bonds.** The Design-Builder shall purchase and maintain insurance and provide bonds as set forth in Article 11 of the General Conditions – Design Build. Insurance shall be maintained at all times during the providing of Preconstruction Services, Design Services, and any construction services and Work by Design-Builder, its Architect, Consultants, and Contractors under this Agreement. Design-Builder will comply, at

all times, with all insurance and bonding requirements of Owner. In the event of any failure by Design-Builder to comply with the insurance and bond provisions, Owner may, at its option, on notice to Design-Builder, suspend or terminate this Agreement for cause.

Alternatively, Owner may purchase such insurance at Design-Builder's expense.

§ 3.1.17 Neither any oral representation by or oral agreement with the Owner, Project Manager, or any representative, consultant, officer, agent, or employee of either before execution of this Contract shall affect or modify any of Design-Builder's rights or obligations hereunder, all such prior oral representations, understandings, and agreements being superseded by this Contract. Design-Builder is not aware of any facts that make misleading or inaccurate in any material respect any information Owner, Project Manager, or any of their representatives, consultants, officers, agents, or employees have furnished to Design-Builder which would have a material, adverse effect on the Contract Time or Contract Sum, and if, during the course of the performance of the Work, Design-Builder learns of any such facts, it will so advise each of said parties.

ARTICLE 4 WORK PRIOR TO EXECUTION OF THE DESIGN-BUILD AMENDMENT

§ 4.1 PRECONSTRUCTION SERVICES

§ 4.1.1 **Notice to Proceed.** The Preconstruction Services phase shall be deemed to commence upon the date specified in a Notice to Proceed with Preconstruction Services and shall continue through completion of the Construction Documents and procurement of all major Contractor agreements, until execution of the Design-Build Amendment. Design-Builder is not entitled to reimbursement for any costs incurred for Preconstruction Services performed before issuance of the Notice to Proceed. The listing of Preconstruction Services below should not be construed as a limitation on such services should Design-Builder determine additional services are necessary to fully plan, implement, and timely complete the Work within the Contract Time and Contract Sum. Any such services must be approved by Owner in writing prior to the Services being provided.

The Design-Builder will utilize as resources any documents provided to it by the Bridging Architect, which may include the size, type and designed character of the Project, performance specifications covering the quality of materials, equipment, workmanship, preliminary plans or building layout.

Preliminarily, Preconstruction Services include the following:

§ 4.1.2 **General.** Design-Builder shall visit the proposed Site and inspect the existing facilities, systems and conditions to ensure an accurate understanding of the existing conditions as required. The Design-Builder shall participate in Project Team meetings at scheduled intervals during the Preconstruction and Design Phases and shall advise the Owner on proposed Site use and improvements, selection and availability of labor, materials, building systems and equipment. The Design-Builder shall also provide the Owner with recommendations, consistent with the Owner's Criteria, on constructability; availability of materials and labor; time requirements for procurement, installation and construction; use of temporary facilities, and factors related to construction cost including, but not limited to, costs of alternative designs or materials, preliminary budgets, life-cycle data, and possible cost reductions; identification and resolution of conflicts in the proposed Drawings and Specifications as they evolve; methods of delivery and handling of materials, systems, and equipment; traffic, parking and materials and equipment storage in and around the Site; safety issues and available precautions related to the Work; scheduling issues including phased construction and potential fast track scheduling; and any other matters necessary to accomplish the Project in accordance with the Project Schedule. At the Owner's request, the Design-Builder shall attend public meetings concerning the development, design, scheduling, and Work of the Project.

§ 4.1.3 **Design-Build Consultants.** Within ten (10) Days of execution of this Agreement, Design-Builder shall provide to Owner a list of necessary Consultants, design professionals, surveyors, and engineers to assist in the design and construction of the Project and their hourly rates for approval by Owner (which approval shall not be unreasonably withheld), thereafter

§ 4.1.4 **Constructability.** Design-Builder shall implement and conduct a constructability program to identify and document Project costs and schedule savings opportunities. The Design-Builder shall prepare a "Constructability Report" that identifies items that, in the Design-Builder's opinion, may negatively impact construction of the Project. The Constructability Report shall address the overall coordination of Project Drawings, Specifications, and details and identify discrepancies that may generate Change Orders or Claims once Project construction commences. The

Constructability Report shall be updated at least monthly during the Preconstruction phase.

§ 4.1.5 Budget and Cost Consultation.

(i) Design-Builder shall commence its Budgeting activities by reviewing any budget or cost estimate prepared by the Bridging Architect. Design-Builder is thereafter responsible for preparing an initial budget updating all procurement and construction cost estimates and distributing them to the Project Team throughout the duration of the Project. In the event the initial budget varies materially from the budget or cost estimate prepared by the Bridging Architect, the Design-Builder shall provide the District with a written analysis of the changes.

(ii) The Design-Builder shall provide estimates of construction costs to Owner in cost reports, within **fourteen (14)** Days of completion of the Programming, Schematic Design, Design Development, and Construction Documents phases of the Project. The cost reports for the Design Development and Construction Documents phases shall be detailed estimates derived from cost quantity surveys and based on prices for labor, materials, overhead and profit and organized in Construction Specifications Institute (CSI) division format. The Design-Builder shall provide continuous cost consultation services throughout the duration of the Project, including identification and tracking of decisions that affect the scope or quality of the Project and providing ongoing updates of their cost and budget impact.

(iii) Design-Builder shall promptly identify all variances between estimated costs and actual costs during the construction phase, and shall promptly report such variances to the Project Team along with recommendations for action, but in any event no more than **three (3) business** days after acquiring such information.

§ 4.1.6 Coordination of Design and Construction Documents. Design-Builder shall review all Drawings, Specifications, and other Construction Documents as they are developed by the Architect during the Programming, Schematic Design, Design Development, and Construction Documents design phases of the Project. Design-Builder shall consult with Owner, Architect, and Project Manager on the selection of materials, equipment, component systems, and types of construction used on the Project. Design-Builder will advise Owner on Site use, construction feasibility, availability of labor and materials, procurement time requirements, and construction coordination. Design-Builder shall advise Owner of any error, inconsistency or omission discovered in the Drawings, Specifications, and other Design-Build Documents and take steps to correct the same as required by the Project Team. Design-Builder shall advise Owner on reasonable adjustments in the Project scope, quality or other options for keeping the Project cost within the Owner's budget.

§ 4.1.7 Construction Planning. Design-Builder shall identify equipment or material requiring extended delivery times and advise Owner on expedited procurement of those items and will advise the Owner on the preparation of performance specifications and requests for technical proposals for the procurement and installation of systems and components and for the procurement of long lead items. Design-Builder shall make recommendations to the Project Team regarding organization of the Construction Documents to facilitate the bidding and awarding of construction contracts in a manner that promotes the interests of the Project and the Owner. The recommendations shall take into consideration such factors as time of performance, type and scope of work, availability of labor and materials, overlapping trade jurisdictions, provisions for temporary facilities, comparisons of factory and on-Site production costs, shipping costs, code restrictions, the Owner's goals for Small Business (SB) and Disabled Veteran Business Enterprise (DVBE) Contractor participation, and other related matters. Design-Builder shall review the Design-Build Documents with the Project Team to eliminate areas of conflict and overlap in the Work to be performed by the various Contractors or Owner's Separate Contractors.

Design-Builder shall develop bidder's interest in the Project and will develop and refine a bid/proposal strategy that addresses the entire scope of the Work for each phase and stage of the Project for approval by Owner and Project Manager. Design-Builder shall provide an analysis of the types and quantities of labor required for the Project, review the appropriate categories of labor required for critical phases or stages, and make recommendations that minimize adverse effects of labor shortages. Design-Builder shall refine, implement and monitor required SB/DVBE contracting plans to promote equal employment opportunity in the provision of goods and services to the Project. Design-Builder shall provide an analysis of the types and quantities of materials required for the Project, review and monitor the cost of such materials on an on-going basis, and make recommendations to minimize the adverse effects of material shortages and price volatility of materials. Design-Builder shall advise Owner of any tests to be performed, and assist Owner in selecting testing laboratories and consultants, without assuming direct responsibility for the work of such laboratories and consultants. Design-Builder shall consult with and make recommendations to Owner with respect to the acquisition and delivery schedules for fixtures and equipment and include such activities on the Project Schedule.

§ 4.1.8 **Safety.** Design-Builder shall plan, initiate, maintain, and supervise all safety precautions and programs in connection with the Work of the Project including during Preconstruction Services and Design Services. Design-Builder shall develop a safety program for the performance of Work during the construction stage which shall be provided to Owner and Project Manager for approval. Design-Builder's safety program shall address activities of all Contractors and Consultants, shall consider any Owner requirements set forth in Article 10 of the General Conditions – Design Build, and shall comply with Applicable Laws.

§ 4.1.9 **Scheduling.** Design-Builder shall prepare the Project Schedule pursuant to Section 3.1.9 herein for Owner's approval.

§ 4.2 **DESIGN SERVICES.** Design-Builder shall provide all Design Services as set forth below and those reasonably necessary for a full design of the Project. Information submitted by the Design-Builder, and any interim decisions made by the Owner, shall be for the purpose of facilitating the design process and shall not modify the Owner's Criteria unless the Owner and Design-Builder execute a Modification.

§ 4.2.1 **General.** Design-Builder has engaged the services of an Architect and other licensed professionals to provide Design Services for the Project in such disciplines as their license permits and as the Project requires. Design-Builder shall not perform any architectural or engineering services directly unless Design-Builder is licensed in California to perform such services. All Drawings, Specifications, and other design documents shall bear the seal of the licensed professional who prepared them in accordance with the Applicable Laws. All Drawings, Specifications, and other design documents shall be prepared in accordance with the Owner's Criteria and all other requirements of Owner.

§ 4.2.1.1 All Design Services for the Project (by Architect and all of its Consultants performing professional Design Services) shall be performed in conformance with the Standard of Care set forth in Section 3.1.1. Design-Builder shall be solely responsible for all obligations to the Architect and other design professionals and shall pay for the services of the Architect and all other professional service providers out of the Design Services Fee paid to Design-Builder under this Agreement. However, the Owner shall be identified as a third-party beneficiary in all agreements between Design-Builder and Architect, Design-Builder and other professional service providers, and Architect and any of its Consultants. The Architect, Architect's Consultants, and all other professional service providers shall acknowledge that they owe a duty of professional care to the Owner for the Design Services provided for the Project. Nothing in this Agreement shall create any contractual obligation from the Owner to the Architect, Architect's Consultants, or other design professionals not hired directly by the Owner. The Design-Builder shall provide the Owner with a copy of the fully executed contract or agreement authorizing services by any such Consultant or other professional service provider.

§ 4.2.1.2 Design-Builder shall manage Design Services so that the Project, as designed, can be constructed for an amount that is within the Guaranteed Maximum Price. The obligation to design the Project so as to achieve the Owner's design requirements, including its objectives of scope and cost, shall continue from Preconstruction Services through Design Services, and preparation, completion, and acceptance of Construction Documents. Any adjustment to the scope or quality considered necessary to comply with the Owner's design requirements during the design phase shall be mutually agreed upon and shall be considered normal to that process. Approval or acceptance of any Design Services by Owner shall not in any way release Design-Builder from any duty, responsibility or liability for such services, it being understood that Owner is at all times relying upon Design-Builder's skill and knowledge in performing all Preconstruction and Design Services.

4.2.1.3 Owner shall have the right to reject any Design Services it considers defective. Design-Builder shall promptly correct any such defect at Design-Builder's expense. Should any portion of the Work be damaged or defective due to an error or omission in the Design Services, including errors or omissions in any plans, Drawings, Specifications, and other Construction Documents or materials prepared or furnished by Design-Builder, Architect, Architect's Consultants, or any other professional service provider, Design-Builder shall promptly correct any such damage or defect at no additional cost to the Owner. Should the Design-Builder refuse or neglect to correct any such damage or defect within a reasonable time after notice, Owner may cause the damage or defect to be corrected and withhold payment or collect monetary damages equal to the cost of replacing or repairing the defective Work.

§ 4.2.1.4 If the construction cost estimates required under Section 4.1.5, at any required submittal stage, exceed the Owner's budget, the Owner and Design-Builder (and its Architect and Consultants) will work collaboratively to

ensure that the construction cost estimates are brought to within the Owner's budget, which may include Owner modifying its budget, discussion and coordination of value engineering recommendations with Owner's Program and budget; mutually agreeable revisions to the program, scope or quality, or any combination of these or other discussions and recommendations. Once a collaborative decision is reached, Design-Builder shall then revise the respective construction design documents as may be necessary. Such revision shall be without increase in the Preconstruction Services Fee or Design Services Fee under except as otherwise expressly provided in this Agreement.

§ 4.2.1.5 The Design Services shall be provided in stages, including Programming, Schematic Design, Design Development, and Construction Documents stages. The Design-Builder shall not proceed to any subsequent stage of Design Services until the Owner has authorized Design-Builder to proceed in writing, except at the Design-Builder's sole financial risk. Each stage of the Design Services will include appropriate input from various disciplines including Architect's Consultants, Owner Consultants and any other party necessary to produce a fully integrated set of Construction Documents upon which the Project may be constructed. These shall include, but not be limited to architectural, landscape, Building Information Modeling (BIM), civil, structural, mechanical, electrical and plumbing engineering services, construction cost estimating, scheduling, and Storm Water Pollution Prevention Plan Design Services, as required.

§ 4.2.2

(Paragraphs deleted)

Programming Phase: During the Programming phase, the Design-Builder shall schedule and conduct meetings with the Owner and any other necessary individuals or entities to discuss, review, and evaluate Owner's Criteria as set forth in Section 1.1, Owner's standards and design requirements, and Owner's expectations as it concerns functional issues that may impact the Project. In addition, the Design-Builder shall review and become familiar with those documents provided to the District by the Bridging Architect. With the approval of the District, Design-Builder may consult with the Bridging Architect to clarify issues raised by the documents and provide other supplementing material or analysis as may be needed for the development of the drawings and specifications.

(i) Kick-Off Meeting: The Design-Builder shall schedule and oversee a kick-off meeting to include Design-Builder, District, Engineer (where applicable) and sub-consultants. The Project kickoff meeting will introduce key team members to each other, defining roles and responsibilities relative to the Project. Identify and review pertinent information and/or documentation necessary from the District for the completion of Design-Builder's services for the Project. Participants shall review and explain the overall project goals, general approach, tasks, work plan and procedures and deliverable products for the Project.

(ii) Law and Specifications: The Design-Builder shall also review Applicable Laws with respect to the design and construction of the Project and shall visit the Site to become familiar with the functional operational requirements of the Project, existing and proposed facilities, systems, and conditions to ensure the Project, as designed, will functionally interface with the existing conditions and Owner's Criteria, including those developed by the Bridging Architect. The Design-Builder shall thereafter again meet with the Owner to discuss a preliminary evaluation of the Owner's Criteria and discuss Owner's program. The preliminary evaluation shall address Owner's expectations, benchmarks, possible alternative approaches to design and construction of the Project, balance scope and budget and include the Design-Builder's recommendations, if any, with regard to accelerated or fast-track scheduling, procurement, or phased construction. The preliminary evaluation shall consider cost information, constructability, and procurement and construction scheduling issues.

(iii) Sustainable Design Goals: Where applicable, Design-Builder shall meet with the District's Facilities Team to include the establishment of sustainable Design goals for the Project. Design-Builder shall prepare a sustainable Design Checklist.

§ 4.2.2.1 After the Design-Builder meets with the Owner and presents the preliminary evaluation, the Design-Builder shall provide a written report to the Owner, summarizing the Design-Builder's evaluation of the Owner's Criteria. The report shall also include:

- .1 allocations of program functions, detailing space and adjacency needs, room-by-room technical requirements, engineering criteria, schedules of medical equipment and functionality, and the function and square foot areas of each room/building;
- .2 Site opportunities, challenges and constraints;
- .3 collateral requirements such as sustainability targets and environmental issues;
- .4 a preliminary estimate of the Contract Sum, and, if necessary, recommendations to adjust to Owner's

Commented [RN2]: This language can be removed if this is not a LEED project. If it is, we can further develop this paragraph.

- Criteria so as to be within the Owner's budget;
- .5 a preliminary schedule, in compliance with Section 3.1.9 above, which shall also include proposed design milestones; dates for receiving additional information from, or for work to be completed by, the Owner; anticipated date for completion of Programming, Schematic Design, Design Development Documents, Construction Documents, and for the Design-Builder's Proposal; and dates of periodic design review sessions for each phase of design and development of Design-Builder's Proposal with the Owner; and
- .6 any additional items mutually agreed upon by Owner, Project Manager, and Design-Builder including any Project delivery impacts and decisions.

§ 4.2.2.2 The Owner shall review the Design-Builder's written report and, if acceptable, provide the Design-Builder with written consent to proceed to the development of the Schematic Design Phase as described in Section 4.2.3. The consent to proceed shall not be understood to modify the Owner's Criteria unless the Owner and Design-Builder execute a Modification.

(Paragraph deleted)

§ 4.2.3 Schematic Design

§ 4.2.3.1 Upon the Owner's issuance of a written consent to proceed under Section 4.2.2.2, the Design-Builder shall prepare and submit a Schematic Design to the Owner. In developing the Schematic Design, the Design-Builder shall consider environmentally responsible design alternatives, such as material choices and building orientation, and the value of alternative building systems and equipment, together with other considerations based on program and aesthetics, in developing a design that is consistent with the Owner's Criteria, the Project Schedule, and the budget. The Schematic Design shall be in accordance with zoning requirements of Authorities Having Jurisdiction and all Site stipulations. As part of the Schematic Design requirements, Design-Builder shall prepare a preliminary construction cost estimate for submission to Owner.

(Paragraphs deleted)

§ 4.2.3.2 The Schematic Design shall include a report identifying any deviations from the Owner's Criteria, and shall also include the following:

- .1 Confirmation of the allocations of program functions, including the analysis of any alternative designs;
- .2 Site plan including all utilities;
- .3 Building plans, sections and elevations;
- .4 Structural system;
- .5 Selections of major building systems, including but not limited to mechanical, electrical (including low voltage systems) and plumbing systems;
- .6 Outline Specifications or sufficient Drawing notes describing construction materials;
- .7 Design criteria for (i) connection to all proposed temporary and permanent on-Site and off-Site utilities, (ii) the proposed heating, ventilation, and air conditioning system and single line layout of conveyance systems, (iii) the proposed electrical system including reserve capacity, and (iv) the proposed structural system, including the rationale for all determinations, all floor and roof design loads, and lateral loads; and
- .8 Basic Material selections
- .9 Preliminary Equipment selections
- .10 Other typical construction details.

The Schematic Design may include some combination of physical study models, perspective sketches, or digital modeling.

§ 4.2.3.3 The Owner shall review the Schematic Design and the Design-Builder's preliminary construction cost estimate and, if acceptable, provide the Design-Builder with written consent to proceed to development Design Development Documents and acceptance of the preliminary construction cost estimate. The Schematic Design shall not modify the Owner's Criteria unless the Owner and Design-Builder execute a Modification.

(Paragraph deleted)

§ 4.2.4 Design Development. Based on the Schematic Design and any adjustments to the Owner's design requirements, the Project Schedule, and any budget limitations provided by Owner, the Design-Builder shall develop sufficient alternative approaches to design and construction of the Project in the Design Development phase and review them with the Project Team. As part of the Design Development Phase, Design-Builder shall prepare a detailed

construction cost estimate for submission to Owner. Upon completion of the review process and Owner's written authorization to proceed with the Design Development phase, Design-Builder shall prepare Design Development Documents.

§ 4.2.4.1 The Design Development Documents shall illustrate and describe the development of the approved Schematic Design requirements and shall be refined to establish scaled relationships among the Project components. The Design Development Documents shall consist of Drawings and other documents, including plans, sections, elevations, typical construction details, perspective sketches, narratives of major enclosures, survey of applicable codes, engineering studies, analysis of alternative designs, diagrammatic layouts of building systems, and any value engineering performed or recommended by the Design-Builder to fix and describe the size and character of the Project as to architectural, structural, mechanical, plumbing, and electrical systems, FF&E, and other appropriate elements. The Design Development Documents shall be design criteria for (1) connection to all proposed temporary and permanent on-Site and off-Site utilities; (2) the proposed heating, ventilation and air conditioning system and single line layout of conveyance systems; (3) the proposed electrical system including reserve capacity; (4) the proposed structural system, including the rationale for all determinations, all floor and roof design loads, and lateral loads; and (5) other items as mutually agreed upon between Owner, Project Manager and Design-Builder. The Design Development Documents shall further include functional and operational descriptions for the Project commensurate with the level of design completion, and outline Specifications that identify major materials and systems and establish, in general, their quality levels.

§ 4.2.4.2 Drawings will be reviewed for dimensional and graphical accuracy, consistency between the separate Drawings, and compliance with accessibility and planning issues pursuant to the building codes, accessibility codes, and other applicable regulations. Design-Builder will revise the Drawings based on Owner's pricing comments (if any) and shall establish guidelines for design of program elements. Design Development Documents shall be based upon reliable and accurate calculations that appropriately determine all architectural and engineering components of the Project. Draft Specifications shall be prepared for review and inclusion in the package of Design Development documents, all of which shall be submitted to the Owner and Project Manager, with updated costs estimated, in the "DD Approval Package".

§ 4.2.4.3 Design-Builder shall meet with the Project Team as necessary to thoroughly review the DD Approval Package and the detailed construction cost estimate. During such meeting(s), Design-Builder shall provide input on and advise the Owner of any adjustments to the Owner's budget. Design-Builder shall make such revisions to the documents in the DD Approval Package as required by Owner and Project Manager to finalize the Design Development Documents and to align the design with the Owner's stated requirements and budget. After incorporating revisions to the DD Approval Package as requested by the Project Team, Design-Builder shall resubmit such revised DD Approval Package, electronically in CAD format and in hard copy, along with any required, updated cost estimates (the "Final DD Package"), to the Owner for approval. The Final DD Package shall include two sets of the complete documents in a format and medium acceptable to the Owner and such complete printed sets of the Final DD Package.

§ 4.2.4.4 The Design-Builder shall prepare presentation materials at completion of the Design Development phase in a manner that meets Owner's schedule. Such presentation materials shall be revised and/or supplemented to meet the requirements of this Agreement as reasonably required by Owner. Such materials shall be furnished in electronic format as may be required by the Owner and in hard copy.

§ 4.2.4.5 Design-Builder shall request written approval of the Final DD Package, updated cost estimates, and any adjustments to the Project Schedule so that it may proceed to the Construction Documents phase. When Owner considers all elements of the Design Development phase are met, Owner will issue written authorization for Design-Builder to proceed with the Construction Documents phase.

§ 4.2.5 Construction Documents

§ 4.2.5.1 Based on the Owner's approval of the Design Development Documents, authorization of any adjustments in the Project requirements, Owner's budget and Design-Builder's cost estimates, Design-Builder shall prepare Construction Documents for the Owner's approval.

§ 4.2.5.2 The Construction Documents shall illustrate and describe the further development of the approved Design Development Documents and shall consist of Drawings and Specifications setting forth in detail the quality levels and

performance criteria of materials and systems and other requirements for the construction of the Work, including, but not limited to all architectural, structural, mechanical, electrical and plumbing Drawings, plans, details, schedules, Site lighting, building lighting and common area lighting plans (electrical), low voltage/security design plans, civil design, landscape design, calculations, energy calculations and technical Specifications, and all fire protection designs, including a performance Specification to allow a design/build program by the fire protection Contractor. Specifications will be based on a 48-division specification model and will be printed on 8 1/2" x 11" book format indicating the actual material selections and other relevant notes. Design-Builder shall make sure that all Drawings and Specifications submitted to Owner for approval are complete, unambiguous, and in compliance with Applicable Laws. Design-Builder shall be responsible for providing certification(s) required by any Authorities Having Jurisdiction. At the Owner's request, Design-Builder shall prepare detailed area calculations in a form acceptable to Owner.

§ 4.2.5.3 As part of the Construction Documents phase, the Design-Builder shall:

- .1 Conduct design team meetings at agreed-upon frequency, for design review and to resolve design coordination issues.
- .2 Coordinate efforts of the design team and incorporate into the design all comments from Design-Builder Consultants.
- .3 Coordinate efforts of the Project Team and incorporate into the design all comments from Owner Consultants.
- .4 Finalize selection and documentation of construction materials and finishes.
- .5 Review document progress with Owner for input and direction, and incorporate Owner-requested revisions.
- .6 Issue progress documents at fifty percent (50%) and ninety-five percent (95%) for Owner's review and approval.
- .7 Submit Construction Documents packages at appropriate stages for permitting as required to meet the Project Schedule.
- .8 Coordinate with Owner and Project Manager to include Owner-directed comments and revisions.

§ 4.2.5.4 Construction Documents will be submitted to Owner, reviewed, and any comments incorporated at fifty percent (50%) and ninety-five percent (95%) such that all such comments are resolved at one hundred percent (100%) completion. The Design-Builder shall provide with each review submitted to Owner a coordination document set with colored overlays of required design disciplines. These shall include, but not be limited to, mechanical, electrical, plumbing, sprinkler, slab penetrations, telecommunications, and instructional technologies support. With the exception of fire sprinkler design, the Design-Builder shall provide all designs and shall not use design performance documents, unless approved by Owner.

§ 4.2.5.5 Construction Document Drawings shall be produced in BIM as part of the Design Services. Owner will define the BIM requirements and the final media for the BIM data. Any Drawing revisions shall be investigated and coordinated with other design documents. Any redesign required as a result of conflict and/or comparison with other design documents, shall be provided by Design-Builder in electronic version and provided to Owner as part of Design Services. All electronic data shall include an organized indexing system and/or a table of contents sufficiently detailed as to each discrete subject matter so as to allow for easy identification and location of each file or page of information. Specifications shall be provided to Owner in both Microsoft Word and in Adobe PDF.

§ 4.2.5.6 The Design-Builder shall incorporate the design requirements of Authorities Having Jurisdiction into the Construction Documents.

§ 4.2.5.7 The Design-Builder shall update the cost estimates prepared in accordance with Section 4.2.4.3. The Design-Builder shall assist the Owner with any decisions made by the Owner prior to completion of Design-Builder's services in the Construction Documents Phase to reduce the estimated cost thereof.

§ 4.2.5.8 No later than the one hundred percent (100%) Construction Documents Deadline set forth in the Project Schedule and based on the approved ninety-five percent (95%) complete Construction Documents, Design-Builder shall prepare and deliver to Owner the proposed one hundred percent (100%) complete Construction Documents and

the one hundred percent (100%) complete construction cost estimate review comments. If such cost estimate exceeds the Owner's budget, Design-Builder shall consult with Owner to identify further potential Drawing and/or Specification modifications that bring the cost estimate into compliance with the budget. Approved modifications shall be incorporated into the Construction Documents at no cost to Owner in the event Owner determines, in its sole discretion, that such changes are the responsibility of Design-Builder. Any revisions required to any Drawings after the Drawings are approved by Owner and any Authorities Having Jurisdiction and issued at the "For Construction" phase shall be billed as an additional service.

§ 4.2.5.9 Prior to releasing the Construction Documents "For Construction," the Design-Builder shall provide a document that summarizes all design code requirements and provide written certification that the Construction Documents meet all Applicable Laws and required standards. The Design-Builder shall further certify in writing that no asbestos or lead containing materials have been specified or approved by the Design-Builder for installation into the Project.

§ 4.2.5.10 Design-Builder shall submit all documents required to secure approval of all Authorities Having Jurisdiction. All requests for reimbursement for any direct costs associated with submitting documents to such Authorities Having Jurisdiction and for permit fees shall be included as Reimbursable Expenses. The Design-Builder shall file and obtain approval of the Construction Documents from the California Department of Licensing and Regulations, Architectural Barriers Division.

§ 4.2.5.11 Before proceeding to prepare the Design-Build Proposal, the Design-Builder shall obtain Owner's written acceptance of the final Construction Documents and will reconfirm the alignment of the approved cost estimate with the established final budget. Owner shall provide consent to proceed to the Design-Builder's Proposal phase, unless authority to do so has been previously provided. No Construction Documents shall be issued, delivered, or released for any purpose without the prior written consent of Owner. Unless otherwise instructed by Owner, Design-Builder shall deliver approved Construction Documents to Owner.

§ 4.2.6 Design-Builder represents and warrants to the Owner that all Drawings, Specifications, and other information furnished or provided by Design-Builder shall be free from material errors, defects, and omissions and sufficiently complete so as to, at all times, comply with the Standard of Care. Approval or acceptance of any Design Services by the Owner shall not in any way release Design-Builder from any duty, responsibility or liability for such Design Services, it being understood that Owner is at all times relying upon Design-Builder's skill and knowledge in performing the Design Services.

§ 4.3 Construction Services

§ 4.3.1 **General:** Progressive Design-Build requires the Design-Builder to submit pricing information before the full scope and pricing of the Work can be known. Accordingly, the compensation terms of Phase 1 will be different from the compensation terms for Phase 2.

§ 4.3.2 **Phase 1 Compensation.** The Design-Builder will complete all Design and Pre-Construction Services, including cost of the Design Services, overhead and profit for the Design-Builder, and will be on the basis of a not-to exceed price. Design-Builder will be paid pursuant to monthly invoices based on the hours of Design-Services and the hourly billable rates agreed upon, and set forth in Exhibit 3.

§ 4.3.3 Stipulated Sum Proposal

Prior to commencing any work on Phase 2 of the Project, Design-Builder shall submit a Stipulated Sum Proposal to Owner. Design-Builder shall provide Owner with all documents related to such Stipulated Sum reasonably requested by Owner, which may be reviewed by independent cost estimators on Owner's behalf. If the parties to this Agreement cannot agree on the amount of the Stipulated Sum, the Agreement with the Design-Builder may be terminated, according to Article 13 of the General Conditions – Design Build, herein.

§ 4.3.4 Phase 2 Compensation: Stipulated Sum

During Phase 2 of the Project, Design-Builder will perform and design completion and design services, and all Construction Services, as summarized in the Scope of Work and in the Construction General Conditions, within the Stipulated Sum. The agreed upon Stipulated Sum will cover all labor, equipment, materials, profit, overhead, taxes,

and any other expenses to be incurred by the Design Builder during Phase 2. The costs and expenses covered by the Stipulated Sum include the following: (a) Direct cost of the Work; (b) Design-Builder Fee; (c) Insurance premium costs without markup; (d) bond costs without markup; (e) applicable sales tax; (f) any agreed upon contingency; and (g) any agreed upon allowances.

§ 4.3.5 Construction Contingency

Design-Builder may propose within the Stipulated Sum a Construction Contingency in an amount to be approved by Owner and established in in the Agreement. If agreed upon by Owner and included within the Stipulated Sum , a Construction Contingency will be available to the Design-Builder to cover any cost of the Work unanticipated by Design-Builder on the effective date of the Stipulated Sum Amendment, such as unanticipated field conditions that do not constitute a differing site condition and re-sequencing the Work for the good of the Project. Owner will not require the Design-Builder to use the Construction Contingency for Change Order Work. The Construction Contingency shall be subject to the conditions and restrictions found on page 27 of the Request for Proposals, the contents of which are incorporated herein by reference.

§ 4.3.6 COVID-19. Design-Builder and its Architect, Consultants, and Contractors will comply with all orders, regulations, or requirements issued by any Authorities Having Jurisdiction regarding COVID-19 that may affect commercial construction in the county where the Project is located. Design-Builder and its Architect, Consultants, and Contractors will employ commercially reasonable efforts to mitigate any delays and/or increased costs related to COVID-19. Notwithstanding the foregoing, Owner has requested that Design-Builder prepare the Design-Build Proposal and the Project Schedule keeping in mind reasonably foreseeable, in accordance with Design-Builder's Standard of Care, delays in deliveries, workforce inefficiencies caused by social distancing protocols, price escalations, and material shortages related to COVID-19 or its aftermath. The Owner shall not be required to make any adjustment in either the Contract Sum or Contract Time in connection with any failure by the Design-Builder, its Architect, or any Consultant or Contractor to comply with the requirements of this Section or to include in the Project Schedule or Design-Build Proposal sufficient time or amounts to address reasonably foreseeable price escalations or materials shortages related to or arising out of COVID-19 within Design-Builder's Standard of Care.

§ 4.3.7 Acceptance of the Design-Build Proposal. Owner shall have at least **ninety (90)** Days after receipt of the Design-Build Proposal in which to accept or reject such proposal, unless extended by mutual agreement or in accordance with Section 4.4.4.2. Acceptance of the Design-Build Proposal shall be by written amendment to this Agreement, duly executed by Owner and Design-Builder. The Design-Build Amendment shall include Exhibits supporting the various items of the Design-Build Proposal (as set forth in Section 4.3.1 above) plus any additional information reasonably required by Owner in support of the Design-Build Amendment. Upon execution of the Design-Build Amendment, the Design-Build Amendment and its Exhibits shall become part of the Design-Build Documents as **Exhibit A**.

§ 4.3.8 Rejection of the Design-Build Proposal. If Owner, in its discretion, is unwilling to approve the Design-Build Proposal, Owner may, at its election, take one or more of the following actions:

- .1 terminate this Agreement by providing the Design-Builder with notice of termination in accordance with Article 13 of the General Conditions – Design Build. Promptly after such termination, upon receipt of final conditional lien waivers documents from the Design-Builder, its Contractors and others performing Work, and the receipt of all documents reasonably requested by Owner, Owner shall pay the Design-Builder for services performed and authorized in writing by Owner to the point of termination, as full payment for all Work and services performed by the Design-Builder, which shall be the exclusive and total amount due the Design-Builder in connection with this Agreement and the termination thereof pursuant to this Section; or
- .2 direct the Design-Builder to continue to participate in value engineering exercises so that the Design-Builder can submit another Design-Build Proposal at a reduced cost. Owner shall review the revised Design-Build Proposal submitted and advise Design-Builder of the acceptance or rejection of the revised Design-Build Proposal within **thirty (30)** Days of approval/rejection by the Owner's governing body. If approved, Owner will notify the Design-Builder. If rejected, Owner shall have the right to proceed or to terminate this Agreement as set forth herein. If Owner does not accept or reject the revised Design-Build Proposal within the aforementioned period of time, Design-Builder may notify the Owner of its intention to terminate this Agreement, or, if the parties agree, may to

continue value engineering efforts for that period of time agreed to establish another revised Design-Build Proposal.

ARTICLE 5 WORK FOLLOWING EXECUTION OF THE DESIGN-BUILD AMENDMENT

(Paragraphs deleted)

§ 5.1 *[Intentionally deleted. The Construction Documents phase is set forth in Section 4.2.5 above.]*

§ 5.2 Construction

§ 5.2.1 **Commencement.** Except as permitted in Section 5.2.2 below, construction shall not commence prior to execution of the Design-Build Amendment and Owner's issuance of a Notice to Proceed for Construction Work.

§ 5.2.2 If the Owner and Design-Builder agree in writing, construction may proceed prior to the execution of the Design-Build Amendment. However, such authorization shall not waive the Owner's right to reject the Design-Build Proposal.

§ 5.2.3 Design-Builder shall supervise and direct the Work and shall perform the Work in a good and workmanlike manner and in the most expeditious and economical manner consistent with the interests of Owner. Design-Builder shall exercise the degree of care, skill and diligence in the performance of the Work in accordance with and consistent with industry standards for similar projects and circumstances; shall utilize its best skill, efforts and judgment in furthering the interests of Owner; and shall furnish efficient business administration and supervision to the Project in accordance with Section 3.1.1 and the Standard of Care. The Design-Builder shall be solely responsible for, and shall be subject to assessment of Liquidated Damages in and have control over, construction means, methods, techniques, sequences and procedures, and for coordinating all portions of the Work under the Contract. The Specific duties of the Design-Builder are set forth in the Construction General Conditions.

5.2.3 Liquidated Damages:

a. Substantial Completion: If the Design-Builder fails to achieve substantial completion of the Work within the Contract Time, including adjustments thereto in accordance with the Contract Documents, the Design-Builder shall be subject to the assessment of liquidated damages, in the amount of FIFTEEN HUNDRED DOLLARS (\$1,500) per days from the scheduled date of Substantial Completion until Substantial Completion is achieved.

b. Delayed Completion of Punchlist Items: If the Design-Builder fails to complete all punchlist items noted upon Substantial Completion within the time established for completion of the Punchlist Items, the Design-Builder shall be subject to the assessment of Liquidated Damages in the amount of FIFTEEN HUNDRED DOLLARS (\$1,500) per day from the scheduled completion until all Punchlist Items are completed.

ARTICLE 6 MISCELLANEOUS PROVISIONS

§ 6.1 Capitalization

Terms capitalized in the Contract include those that are (1) specifically defined, (2) the titles of numbered articles or (3) the titles of other documents published by the American Institute of Architects.

§ 6.2 Interpretation

§ 6.2.1 In the interest of brevity, the Design-Build Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

§ 6.2.2 Unless otherwise stated in the Design-Build Documents, words which have well-known technical or construction industry meanings are used in the Design-Build Documents in accordance with such recognized meanings.

§ 6.2 **Attorneys' Fees and Severability.** If any action at law or in equity is necessary to enforce or interpret the terms of this Contract, each party shall bear its own reasonable attorneys' fees, expert witness fees, costs, and other reasonable expenses incurred in such proceeding.

§ 6.3 **Partial Invalidity.** The invalidity of any part or portion of the Design-Build Documents shall not impair or

the extent
voidable,
valid and

affect in any manner whatsoever the validity, enforceability or effect of the remainder of the Design-Build Documents. To

any provision or portion thereof in this Agreement or the Design-Build Documents is held to be void, invalid, or unenforceable, then the remainder of this Agreement will not be affected thereby and will remain fully enforceable and the parties agree that to the extent possible, any provision that is determined void, voidable, invalid or unenforceable will be reformed to the minimum extent necessary to make it valid and enforceable and will be enforced and enforceable as reformed.

§ 6.4 Survival. All provisions of the Contract that by their nature survive termination of this Contract or Final Completion of the Work, including, without limitation, all warranties, indemnities, indemnity obligations, confidentiality obligations, and obligations to arbitrate or litigate disputes, shall remain in force and effect after Final Completion or any termination of the Contract.

§ 6.5 Multiple Counterparts. This Contract may be executed in multiple original counterparts, each of which shall be of equal dignity. Faxed or electronically scanned signatures shall be sufficient for the execution and delivery of this Contract.

§ 6.6 RESERVED.

§ 6.7 Independent Contractor. In performing its obligations hereunder, Design-Builder shall be deemed an independent contractor and not an agent or employee of Owner.

DRAFT

OWNER:

OCEANSIDE UNIFIED SCHOOL DISTRICT

DESIGN-BUILDER:

[Redacted]

(Signature)

(Printed name and title)

(Signature)

(Printed name, title, and license number, if required)

261-317/6627163.1

DRAFT

GENERAL CONDITIONS

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RECITALS

The documents included in the Request for Proposals and the Design-Builder's Proposal, incorporated herein, and designated as part of the Contract Documents are provided by the District to establish the scope, level of quality and design intent, and the reporting procedures for the development and construction of the entire Project. The Design-Builder shall comply with the Contract Sum, the Contract Time, the Preliminary Schedule or approved Contract Schedule as applicable, the Project Program, the performance specifications, the building massing, building heights and setbacks, public spaces, landscape design, and the general architectural character of the building described in the Criteria Documents. By incorporating the Design-Builder's Proposal as a part of this Contract, the District does NOT accept any provision of the Design-Builder's Proposal that is not in conformance with the criteria of the Request for Proposals.

In consideration of the mutual agreements, covenants and conditions set forth below, and the Recitals set forth above, the adequacy of which is hereby acknowledged, Design-Builder and District agree as follows:

ARTICLE 1. GENERAL PROVISIONS

1.1 BASIC DEFINITIONS

- 1.1.1 **APPLICABLE CODE REQUIREMENTS**
The term "Applicable Code Requirements" means, but is not limited to, all laws, statutes, the most recent State of California building codes, city ordinances, rules, regulations, and lawful orders of all public authorities having jurisdiction over District, Design-Builder, any Subcontractor, the Project, the Project site, the Work, or the prosecution of the Work. See also Article 3.7 of the General Conditions.
- 1.1.2 **APPLICATION FOR PAYMENT**
The term "Application for Payment" means the submittal from Design-Builder wherein payment for certain portions of the completed Work is requested in accordance with Article 9 of the General Conditions.
- 1.1.3 **ARCHITECT OF RECORD**
The term "Architect of Record" means the Design Professional identified in the Special Conditions that is licensed in the State of California and employed or commissioned by the Design-Builder to prepare design documents and construction documents.
- 1.1.4 **BENEFICIAL OCCUPANCY**
The term "Beneficial Occupancy" means the District's occupancy or use of any part of the Work in accordance with Article 9 of the General Conditions.
- 1.1.5 **CEQA**
The term "CEQA" means the California Environmental Quality Act, Public Resources Code Section 21000 et seq.
- 1.1.6 **CERTIFICATE FOR PAYMENT**
The term "Certificate for Payment" means the form signed by District's Representative attesting to the Design-Builder's right to receive payment for certain completed portions of the Work in accordance with Article 9 of the General Conditions.
- 1.1.7 **CERTIFICATE OF SUBSTANTIAL COMPLETION**
See Article 9.7 of the General Conditions.
- 1.1.8 **CHANGE ORDER**
See Article 7 of the General Conditions.
- 1.1.9 **CHANGE ORDER REQUEST**
The term "Change Order Request" means a proposal for a Change Order submitted by the Design-Builder to the District, either at the request of the District or at the Design-Builder's own initiative.
- 1.1.10 **CLAIM**
See Article 4.3 of the General Conditions.
- 1.1.11 **CONSTRUCTION DOCUMENTS**
The term "Construction Documents" means the plans and specifications prepared by the Design-Builder for the Project, and approved by the District. The Construction Documents shall set forth in detail all items necessary to complete the construction (other than such details customarily provided by others during

construction) of the Project in accordance with the Contract Documents. All amendments and modifications to the Plans and Specifications must be approved by the District in writing.

- 1.1.12 **CONSTRUCTION WORK**
The term "Construction Work" means that portion of the Work consisting of the provision of labor, materials, furnishings, equipment, and services in connection with the construction of the Project as set forth in the Contract Documents.
- 1.1.13 **CONTRACT**
The term "Contract" shall have the meaning identified in Article 1.4.12 of the Agreement.
- 1.1.14 **CONTRACT DOCUMENTS**
The term "Contract Documents" means all documents listed in Article 1.4.18 of the Agreement.
- 1.1.15 **CONTRACT MILESTONE**
The term "Contract Milestone" means any requirement in the Contract Documents that reflects a planned point in time for the start or completion of a portion of the Work measured from i) the date of any of the Notices to Proceed, or ii) the date of another Contract Milestone defined in the Contract Documents, as applicable.
- 1.1.16 **CONTRACT SCHEDULE**
The term "Contract Schedule" means the graphical representation of a practical plan, in accordance with the Specifications, to perform and complete the Work within the Contract Time. The detailed requirements for the Contract Schedule are stated in Article 3 of the General Conditions.
- 1.1.17 **CONTRACT SUM**
The term "Contract Sum" means the amount of compensation stated in the Agreement, Exhibit A, for the performance of the Work. This term is also the total extended guaranteed maximum price described in the Price Proposal Form, as may be adjusted during negotiations between the parties. This amount may be adjusted by Change Order.
- 1.1.18 **CONTRACT TIME**
The term "Contract Time" means the number of days set forth in the Agreement, Exhibit A within which Design-Builder must achieve Final Completion of the Work, as adjusted by Change Order.
- 1.1.19 **COST OF EXTRA WORK**
See Article 7.3 of the General Conditions.
- 1.1.20 **CRITERIA DOCUMENTS**
The term "Criteria Documents" means, but is not limited to, the portions of the Contract Documents which constitute an outline of design requirements, Scope of Work, Project Program, Performance Specifications and Drawings.
- 1.1.21 **DAY**
The term "day," as used in the Contract Documents, shall mean calendar day, unless otherwise specifically provided.
- 1.1.22 **DEFECTIVE WORK**
The term "Defective Work" means Work that is unsatisfactory, faulty, omitted, incomplete, deficient, or does not conform to the requirements of the Contract Documents, directives of District's Representative, or the requirements of any inspection, reference standard, test, or approval specified in the Contract Documents.
- 1.1.23 **DESIGN-BUILDER**
The term "Design-Builder" means the person or firm identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number.
- 1.1.24 **DESIGN-BUILDER FEE**
See Article 7.3 of the General Conditions.
- 1.1.25 **DESIGN DEVELOPMENT PHASE**
The term "Design Development Phase" shall mean the period of time set forth in the Agreement beginning with the issuance of the Notice to Proceed.

- 1.1.26 **DESIGN MATERIALS**
The term "Design Materials" shall mean any and all documents, shop drawings, electronic information, including computer programs and computer generated materials, data, plans, drawings, sketches, illustrations, specifications, descriptions, models and other information developed, prepared, furnished, delivered or required to be delivered by, or for, the Design-Builder: (1) to the District under the Contract Documents; or (2) developed or prepared by or for the Design-Builder specifically to discharge its duties under the Contract Documents.
- 1.1.27 **DESIGN PROFESSIONAL**
The term "Design Professional" shall mean individuals or entities that will provide Design-Builder with the required architectural, engineering, and other professional services required for the coordinated design of the Project and the administration of construction.
- 1.1.28 **DESIGN WORK**
The term "Design Work" shall mean the portion of the Work consisting of the design services and design deliverables required to be provided in connection with the design of the Project as set forth in the Contract Documents.
- 1.1.29 **DRAWINGS**
The term "Drawings" means the graphic and pictorial portions of the Contract Documents showing the design, location, and dimensions of the Work, generally including plans, elevations, sections, details, schedules, and diagrams. The Drawings are listed in the List of Drawings.
- 1.1.30 **EQUIPMENT MANUFACTURER**
The term "Equipment Manufacturer" shall mean any Separate Contractor that fabricates and/or supplies any District-provided equipment which is installed in the Project by the Design-Builder.
- 1.1.31 **EXCUSABLE DELAY**
The term "Excusable Delay" means a delay that entitles the Design-Builder to an adjustment of the Contract Time but not an adjustment of the Contract Sum, pursuant to Articles 7 and 8 of the General Conditions.
- 1.1.32 **EXTRA WORK**
The term "Extra Work" means Work beyond or in addition to the Work required by the Contract Documents.
- 1.1.33 **CONSTRUCTION CHANGE DIRECTIVE**
See Article 7.4 of the General Conditions.
- 1.1.34 **FINAL COMPLETION**
The term "Final Completion" means the date at which the Work has been fully completed in accordance with the requirements of the Contract Documents pursuant to Article 9.8 of the General Conditions.
- 1.1.35 **GUARANTEE TO REPAIR PERIOD**
See Article 12.2 of the General Conditions.
- 1.1.36 **GOVERNMENTAL APPROVALS**
The term "Governmental Approvals" means those governmental (including agency) actions required to be obtained by the District and necessary for the completion of the Project.
- 1.1.37 **HAZARDOUS MATERIAL**
The term "Hazardous Material" means any substance or material identified as hazardous under any California or federal statute governing handling, disposal and/or cleanup of any such substance or material.
- 1.1.38 **INDEMNIFIED PARTIES**
The term "Indemnified Parties" means the District, members of its Board of Trustees, and District's agents, officials, officers, representatives, consultants, employees, and authorized volunteers.
- 1.1.39 **MAXIMUM ACCEPTANCE COST**
The term "Maximum Acceptance Cost" means the amount identified as such in the Request for Proposals.
- 1.1.40 **PROJECT**
The term "Project" means the total design and construction of the Work under the Contract and all other work, labor, equipment, and materials necessary to accomplish the Project. The Project may include design or construction work performed by District or by Separate Contractors.

- 1.1.41 **PROJECT SITE**
The term "Project Site" or "Project site" or "Site" or "site" means lands and facilities upon which the Work pertaining to physical construction operations is performed, including such access and other lands and facilities designated in the Contract Documents for use by Contractor.
- 1.1.42 **SEPARATE CONTRACTOR**
The term "Separate Contractor" means a person, or firm, under separate contract with the District performing other work related to the Project.
- 1.1.43 **SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES**
See Article 3.19 of the General Conditions.
- 1.1.44 **SPECIFICATIONS**
The term "Specifications" means that portion of the Contract Documents consisting of the written requirements for materials, equipment, construction systems, standards and workmanship for the Work, and performance of related services.
- 1.1.45 **SUBCONTRACTOR**
The term "Subcontractor" means a person or firm that has a contract with Design-Builder or with a Subcontractor of the Design-Builder to perform a portion of the Work. Unless otherwise specifically provided, the term Subcontractor includes Subcontractors of all tiers.
- 1.1.46 **SUBSTANTIAL COMPLETION**
See Article 9.7 of the General Conditions.
- 1.1.47 **SUPERINTENDENT**
The term "Superintendent" means the person designated by Design-Builder to represent Design-Builder at the Project site, in accordance with Article 3 of the General Conditions.
- 1.1.48 **TIER**
The term "tier" means the contractual level of a Subcontractor or supplier or consultant with respect to Design-Builder. For example, a first-tier Subcontractor is under subcontract with Design-Builder, a second-tier Subcontractor is under subcontract with a first-tier Subcontractor, and so forth.
- 1.1.49 **UNEXCUSABLE DELAY**
The term "Unexcusable Delay" means a delay that does not entitle the Design-Builder to an adjustment of the Contract Sum and does not entitle the Design-Builder to an adjustment of the Contract Time.
- 1.1.50 **UNILATERAL CHANGE ORDER**
See Article 7.2 of the General Conditions.
- 1.1.51 **DISTRICT**
The term "District" or "the District" means Oceanside Unified School District, Owner of the Project.
- 1.1.52 **DISTRICT'S BUILDING OFFICIAL**
The term "District's Building Official," or "Certified Building Official," means the individual the District has designated to act in the capacity of the "Building Official" as defined by the California Building Standards Code. The District's Building Official shall determine whether the Work complies with Applicable Code Requirements and shall determine whether and when it is appropriate to issue a Certificate of Occupancy.
- 1.1.53 **DISTRICT'S REPRESENTATIVE**
The term "District's Representative" means the person identified as such in the Agreement.
- 1.1.54 **DISTRICT'S RESPONSIBLE ADMINISTRATOR**
The term "District's Responsible Administrator" means the person, or his or her authorized designee, who is authorized to execute the Change Orders, Construction Change Directives, and other applicable Contract Documents on behalf of the District.
- 1.1.55 **WORK**
The term "Work" means all labor, materials, equipment, tools, and services, including Design Professional services, and other requirements of the Contract Documents as modified by Change Order, whether completed or partially completed, provided or to be provided by Design-Builder to fulfill Design-Builder's obligations. The Work may constitute the whole or a part of the Project.

1.2 OWNERSHIP AND USE OF CONTRACT DOCUMENTS

- 1.2.1. The Contract Documents, and all copies thereof, furnished to, or provided by, Design-Builder are the property of the District. The District and Design-Builder explicitly agree that all materials and documents developed in the performance of this Contract are the property of the District. The District shall have the right to use all drawings, designs, specifications, notes and any other documentations and other work developed in the performance of this Contract for the Project, or in connection with the Project, including without limitation future additions, alterations, connections, repairs, information, reference, use or occupancy and the right to re-use details of the design on any other District work, all without the Design-Builder's consent and at no additional cost to the District.
- 1.2.2. District shall defend, indemnify and hold harmless Design-Builder, its officers, agents and employees from any costs or claims for damages arising from District's use on other projects of the Contract Documents, the Drawings and Specifications, or the designs depicted in them, if any of the foregoing have been provided to the District by the Design-Builder.
- 1.2.3. Notwithstanding Article 1.2.2 above, District shall not defend, indemnify or hold harmless Design-Builder, its officers, agents, or employees from any costs or claims asserted or imposed by any person or entity claiming that District's use of the Contract Documents, the Drawings and Specifications, or the designs depicted in them, is contrary to or in violation of any copyright, patent, trade secret, trade name, trademark, or any proprietary, contractual or legal right pertaining to their use.

1.3 INTERPRETATION

- 1.3.1. The intent of the Contract Documents is to include all necessary criteria to establish the scope and quality for completion of the Work by the Design-Builder. The Contract Documents are complementary and what is required by one shall be as binding as if required by all. Performance by the Design-Builder shall be required to the extent consistent with, and reasonably inferable from, the Contract Documents.
- 1.3.2. In the case of conflict between terms of the Contract Documents, the following order of precedence shall apply:
 - .1 The Agreement shall control over the Special Conditions.
 - .2 The Special Conditions shall control over the General Conditions.
 - .3 The General Conditions shall control over the Exhibits.
 - .4 Where no order of precedence is stated, the more expansive of the requirements shown or specified shall be controlling.
- 1.3.3. The District and Design-Builder acknowledge that the Contract Documents may differ in some respect(s) from the other documents included in the Proposal Documents upon which the Design-Builder based its response(s) to the Request for Proposals. The District and Design-Builder explicitly agree that documents having the higher quality requirements control over any conflicting requirements of other documents.
- 1.3.4. Organization of the Specifications into various subdivisions and the arrangement of the Drawings shall not control Design-Builder in dividing the Work among Subcontractors or in establishing the extent of work to be performed by any trade.
- 1.3.5. Unless otherwise stated in the Contract Documents, technical words and abbreviations contained in the Contract Documents are used in accordance with commonly understood design professional and construction industry meanings; any non-technical words and abbreviations are used in accordance with their commonly understood meanings.
- 1.3.6. The Contract Documents may omit modifying words such as "all" and "any," and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement. The use of the word "including," when following any general statement, shall not be construed to limit such statement to specific items or matters set forth immediately following such word or to similar items or matters, whether or not non-limiting language (such as "without limitation," "but not limited to," or words of similar import) is used with reference thereto, but rather shall be deemed to refer to all other items or matters that could reasonably fall within the broadest possible scope of such general statement.
- 1.3.7. Whenever the context so requires, the use of the singular number shall be deemed to include the plural and

vice versa. Each gender shall be deemed to include any other gender, and each shall include corporation, partnership, trust, or other legal entity, whenever the context so requires. The captions and headings of the various subdivisions of the Contract Documents are intended only for reference and convenience and in no way define, limit, or prescribe the scope or intent of the Contract Documents or any subdivision thereof.

ARTICLE 2. DISTRICT

2.1 FEE AND PERMIT REQUIREMENTS

- 2.1.1 Permits and licenses necessary for prosecution of the Work shall be secured and paid for by Design-Builder, unless otherwise specified in the Contract Documents.
- 2.1.2 Design-Builder shall obtain and pay for all other permits and licenses required for the Work, including excavation permit and for plumbing, mechanical and electrical work and for operations in or over public streets or right of way under jurisdiction of public agencies other than the District.
- 2.1.3 The Design-Builder shall arrange and pay for all off-site inspection of the Work related to permits and licenses, including certification, required by the specifications, drawings, or by governing authorities, except for such off-site inspections delineated as the District's responsibility pursuant to the Contract Documents.
- 2.1.4 Before acceptance of the Project, the Design-Builder shall submit all licenses, permits, certificates of inspection, and required approvals to the District.
- 2.1.5 Design-Builder shall include all copies of the contract documents in their base contract proposal, and supply both digital and printed copies to the District at each review level and as requested by the District.

2.2 ACCESS TO PROJECT SITE

- 2.2.1 District shall provide, as reasonably required by the Work, but in no event later than the date designated in the Construction Notice to Proceed, access to the lands and facilities upon which the construction Work is to be performed, including such access to other lands and facilities designated in the Contract Documents for use by Design-Builder. To the extent that the site is an active school site and students and staff will be on-site during all demolition and construction, safety of the students is paramount. District shall review the schedule and proposed sequencing before Design-Builder can proceed.

2.3 DISTRICT'S RIGHT TO STOP THE WORK

- 2.3.1 If Design-Builder fails to correct Defective Work as required by Article 12.2 of the General Conditions or fails to perform the Work in accordance with the Contract Documents, District or District's Representative may direct Design-Builder to stop the Work, or any portion thereof, until the cause for such order has been eliminated by Design-Builder. Design-Builder shall not be entitled to any adjustment of Contract Time or Contract Sum as a result of any such order. District and District's Representative have no duty or responsibility to Design-Builder or any other party to exercise the right to stop the Work.

2.4 DISTRICT'S RIGHT TO CARRY OUT THE WORK

- 2.4.1 If Design-Builder fails to carry out the Work in accordance with the Contract Documents, fails to provide sufficient labor, materials, equipment, tools, and services, with respect to either the design or construction phases, to maintain the Contract Schedule, or otherwise fails to comply with any material term of the Contract Documents, and, after receipt of written notice from District, fails within **two (2)** days, excluding Saturdays, Sundays and legal holidays, or within such additional time as the District may specify, to correct such failure, District may, without prejudice to other remedies District may have, correct such failure at Design-Builder's expense. In such case, District shall be entitled to deduct from payments then or thereafter due Design-Builder the cost of correcting such failure, including, without limitation, compensation for the additional services and expenses of District's consultants made necessary thereby. If payments then or thereafter due Design-Builder are not sufficient to cover such amounts, Design-Builder shall pay the additional amount to District.

2.5 DISTRICT'S RIGHT TO REPLACE DISTRICT'S REPRESENTATIVE

- 2.5.1 District may at any time and from time to time, without prior notice to or approval of Design-Builder, replace

District's Representative with a new District's Representative. Upon receipt of notice from District informing Design-Builder of such replacement and identifying the new District's Representative, Design-Builder shall recognize such person or firm as District's Representative for all purposes under the Contract Documents.

ARTICLE 3. DESIGN-BUILDER

3.1 REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY DESIGN-BUILDER; SINGLE POINT RESPONSIBILITY OF DESIGN-BUILDER

- 3.1.1 Design-Builder is responsible for examination of the site and all underground utilities, comments submitted by the District, and quality of the Contract Documents. Errors, inconsistencies, and omissions are the responsibility of the Design-Builder.
- 3.1.2 Design-Builder is responsible for the design and construction of the Project and shall provide all services pursuant to this Contract in a manner consistent with the standard of care under California law applicable to those who specialize in providing such services for projects of the type, scope, and complexity of the Project (including its contracting mode). The Design-Builder shall be solely responsible for any and all design errors including, but without limitation, errors, inconsistencies, or omissions in the Construction Documents. Design-Builder shall take field measurements, verify field conditions, and carefully compare with the Contract Documents such field measurements, conditions, and other information known to Design-Builder before commencing the Work. Errors, inconsistencies, or omissions discovered at any time shall be promptly reported in writing to District's Representative.
- 3.1.3 If Design-Builder performs any design and/or construction activity which it knows, or should know, involves an error, inconsistency, or omission referred to in Articles 3.1.1 and 3.1.2 above, without notifying and obtaining the written consent of the Division of the State Architect ("DSA") and District's Representative, Design-Builder shall be responsible for the resultant losses, including, without limitation, the costs of correcting Defective Work.
- 3.1.4 The District does not assume any obligation to employ the Design-Builder's services or pay Design-Builder royalties of any type as to future programs that may result from the Work performed under this Contract.
- 3.1.5 Design-Builder shall be responsible for all plotting, printing, copying, and distribution cost of any and all documents required in connection with the Work.
- 3.1.6 Design-Builder agrees that it has single point responsibility for the design and construction of this Project.

3.2 DESIGN, SUPERVISION, AND CONSTRUCTION PROCEDURES

- 3.2.1 Design-Builder shall supervise, coordinate, and direct the Work using Design-Builder's best skill and attention. Design-Builder shall be solely responsible for, and have control over, the entire design effort, construction means, methods, techniques, sequences, procedures, and the coordination of all portions of the Work, including, but without limitation, landscape and site work, utilities, and building systems.
- 3.2.2 Design-Builder shall be responsible to District for acts and omissions of Design-Builder's agents, employees, and Subcontractors, and their respective agents and employees.
- 3.2.3 Design-Builder shall not be relieved of its obligation to perform the Work in accordance with the Contract Documents either by acts or omissions of District or District's Representative in the administration of the Contract, or by tests, inspections, or approvals required, or performed, by persons or firms other than Design-Builder.
- 3.2.4 Design-Builder shall be responsible for internal review of all portions of the Work, including those portions already performed under this Contract, to determine that such portions conform to the requirements of the Contract Documents and are ready to receive subsequent Work. District shall be responsible for required materials testing and procuring the inspector of record.
- 3.2.5 To facilitate communications and the management of the design process, the Design-Builder shall establish and maintain a local office for the duration of the design process.
- 3.2.6 The Design-Builder is not required to produce the entire Construction Documents package in the local office; however, the Design-Builder shall provide the appropriate management and design staff in the local office to

provide the District with the current status of, and the capability to properly update, the design documents and submit any changes to DSA for approval prior to installation.

- 3.2.7 The Design-Builder is required to deliver to the District, if requested, any and all design materials including, but not limited to, calculations, preliminary drawings, construction drawings, shop drawings, electronic media data, tenant improvement documents, sketches, illustrations, specifications, descriptions, models, mock-ups, and other information developed, prepared, furnished, or delivered in the prosecution of the design work.
- 3.2.8 Design-Builder shall at all times participate in the CEQA mitigation process and ensure performance as required in the Contract Documents.
- 3.2.9 Design-Builder is responsible for preparation of the Construction Documents for the entire Project.
- 3.2.10 Design-Builder is responsible for construction of the entire Project as required by the Contract Documents.
- 3.2.11 Design-Builder shall at all times maintain good discipline and order among its employees and subcontractors. Design-Builder shall provide competent, fully qualified personnel to perform the Work.

3.3 LABOR AND MATERIALS

- 3.3.1 Unless otherwise provided in the Contract Documents, Design-Builder shall provide and pay for all professional services, other services, labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other things necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

3.4 DESIGN-BUILDER'S WARRANTY

- 3.4.1 Design-Builder warrants to District that all labor, materials, equipment, and furnishings used in, or incorporated into, the Construction Work shall be of good quality, new (unless otherwise required or permitted by the Contract Documents), and all Work shall be free of liens, claims, and security interests of third parties; that the Work shall be of the highest quality and free from defects; and that all Work shall conform with the requirements of the Contract Documents. If required by District's Representative, Design-Builder shall furnish satisfactory evidence of compliance with this warranty. Further, the type, quality, and quantum of such evidence shall be within the sole discretion of the District's Representative. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective.

3.5 TAXES

- 3.5.1 Design-Builder shall pay all sales, consumer, use, income, payroll and similar taxes for the Work or portions thereof provided by Design-Builder.

3.6 INSPECTION FEES FOR PERMANENT UTILITIES

- 3.6.1 All inspection fees and other municipal charges for permanent utilities including, but not limited to, sewer, electrical, phone, gas, water, and irrigation shall be paid for by the District. Design-Builder shall be responsible for arranging the payment of such fees, but inspection fees and other municipal fees relating to permanent utilities shall be paid by the District. Design-Builder may either request reimbursement from the District for such fees, or shall be responsible for arranging and coordination with District for the payment of such fees.

3.7 APPLICABLE CODE REQUIREMENTS

- 3.7.1 Design-Builder shall perform the Work in accordance with the following Applicable Code Requirements and all code requirements listed in the Scope of Work:
 - .1 All laws, statutes, the most recent building codes, ordinances, rules, regulations, Division of State Architect, and lawful orders of all public authorities having jurisdiction over District, Design-Builder, any Subcontractor, the Project, the Project site, the Work, or the prosecution of the Work.
 - .2 Applicable sections in the State of California Labor Code and applicable statutes regarding DIR Registrations, etc.
 - .3 All Applicable Code Requirements relating to nondiscrimination, payment of prevailing wages, payroll records, apprentices, and work day.

- 3.7.2 Design-Builder shall comply with and give notices required by all Applicable Code Requirements, including all environmental laws and all notice requirements under the State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Health and Safety Code Section 25249.5 and applicable sections that follow). Design-Builder shall promptly notify District's Representative in writing if Design-Builder becomes aware during the performance of the Work that the Contract Documents are at variance with Applicable Code Requirements.
- 3.7.3 If Design-Builder performs Work which it knows or should know is contrary to Applicable Code Requirements, without prior notice to District and District's Representative, Design-Builder shall be responsible for such Work and any resulting damages including, without limitation, the costs of correcting Defective Work.
- 3.7.4 In accordance with Revenue and Taxation Code Section 107.6, the Contract Documents may create a possessory interest subject to personal property taxation for which Design-Builder shall be responsible.
- 3.7.5 Pursuant to Section 7103.5 of the Public Contract Code, in entering into a public works contract or subcontract to supply goods, services, or materials pursuant to a public works contract, Design-Builder or subcontractor offers and agrees to assign to the District all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Section 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from the purchase of goods, services, or materials pursuant to this Contract or any subcontract. This assignment shall be made and become effective at the time the District makes final payment to the Design-Builder, without further acknowledgment by the parties.
- 3.7.6 Pursuant to Public Contract Code Section 9201, the District shall provide Design-Builder with timely notification of the receipt of any third-party claim relating to the Contract. District is entitled to recover its reasonable costs incurred in providing such notification.
- 3.7.7 Document Retention and Examination:
- 3.7.7.1 In accordance with Government Code Section 8546.7, records of both the District and the Design-Builder shall be subject to examination and audit by the California State Auditor for a period of three (3) years after final payment.
- 3.7.7.2 Design-Builder shall make available to the District any of the Design-Builder's other documents related to the Project immediately upon request of the District.
- 3.7.7.3 In addition to the State Auditor rights above, the District shall have the right to examine and audit all books, estimates, records, contracts, documents, bid documents, subcontracts, and other data of the Design-Builder (including computations and projections) related to negotiating, pricing, or performing the modification in order to evaluate the accuracy and completeness of the cost or pricing data at no additional cost to the District, for a period of four (4) years after final payment.
- 3.7.8 The Design-Builder shall maintain emergency first aid treatment for his or her employees which complies with the Federal Occupational Safety and Health Act of 1970 (29 U.S.C. Section 651 et seq.), and California Code of Regulations, Title 8, Division 1, Chapter 4.
- 3.7.9 In accordance with Article 14.1.3.1 herein, pursuant to Labor Code Section 1735 and other applicable provisions of law, the Design-Builder and its subcontractors shall not discriminate against any employee or applicant for employment because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation, or military and veteran status on this Project. The Design-Builder shall take affirmative action to ensure that employees are treated during employment or training without regard to their race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation, or military and veteran status.
- 3.7.10 In accordance with the provisions of the Labor Code, contractors or subcontractors may not perform work on a public works project with a subcontractor who is ineligible to perform work on a public project pursuant to Section 1777.1 or Section 1777.7 of the Labor Code. Any contract on a public works project entered into between a contractor and a debarred subcontractor is void as a matter of law. A debarred subcontractor may not receive any public money for performing work as a subcontractor on a public works contract. Any public money that is paid to a debarred subcontractor by the Contractor for the Project shall be returned to the District. The Design-Builder shall be responsible for the payment of wages to workers of a debarred

subcontractor who has been allowed to work on the Project.

- 3.7.11 No contractor or subcontractor may be listed on a bid proposal or be awarded a contract for a public works project unless they are registered with the DIR pursuant to Labor Code Section 1725.5 [with limited exceptions under Labor Code Section 1771.1(a)]. This project is subject to compliance monitoring, electronic certified payroll records reporting, and enforcement by the DIR.
- 3.7.12 Pursuant to Section 7028.15 of the Business and Professions Code and Section 3300 of the Public Contract Code, all bidders must possess proper licenses for performance of this Contract. Subcontractors must possess the appropriate licenses for each specialty subcontracted. Pursuant to Section 7028.15 of the Business and Professions Code, the District shall consider any proposal submitted by a contractor not currently licensed in accordance with state law and pursuant to the requirements found in the Contract Documents to be nonresponsive, and the District shall reject the proposal. The District shall have the right to request, and Bidders shall provide within **five (5)** calendar days, evidence satisfactory to the District of all valid license(s) currently held by that Bidder and each of the Bidder's subcontractors, before awarding the Contract.
- 3.7.13 Pursuant to Section 81703 of the Education Code, Design-Builder acknowledges and agrees that all performance specifications and any plans shall be prepared by a design professional duly licensed or registered in this state to perform the services required by the Field Act, as defined in Section 17281.
- 3.7.14 Design-Builder shall be responsible for familiarity with the Americans with Disabilities Act ("ADA") (42 U.S.C. § 12101 et seq.) The Work shall be performed in compliance with ADA regulations.

3.8 SUPERINTENDENT

- 3.8.1 Design-Builder shall employ a competent Superintendent satisfactory to District who shall be in attendance at the Project site at all times during the performance of the Construction Work. Superintendent shall represent Design-Builder, and communications given to, and received from, Superintendent shall be binding on Design-Builder. Failure to maintain a Superintendent on the Project site at all times while Work is in progress shall be considered a material breach of this Contract, entitling District to terminate the Contract or, alternatively, issue a stop Work order until the Superintendent is on the Project site. If, by virtue of issuance of said stop Work order, Design-Builder fails to complete the Contract on time, Design-Builder shall be assessed Liquidated Damages in accordance with the Agreement.
- 3.8.2 The Superintendent approved for the Project must be able to read, write and verbally communicate in English. The Superintendent approved shall not be replaced without approval by the District. The Superintendent may not perform the Work of any trade, pick-up materials, or perform any Work not directly related to the supervision and coordination of the Construction Work at the Project site when Work is in progress. In addition, the Design-Builder shall provide all Key Personnel shown in the Exhibits for the time periods stipulated.

3.9 TOXIC MATERIALS

- 3.9.1 The Design-Builder is responsible for unforeseen site conditions and toxic materials to the extent described in the Contract Documents and/or that could be reasonably inferred by the Design-Builder based on its experience and expertise on similar projects in urban areas.
- 3.9.2 If the Project requires the use of imported soils, the Design-Builder shall be responsible to use and shall certify that the imported material it uses is free of any hazardous and/or toxic substance or material of any nature or type as defined in accordance with California law, including, but not limited to, the California Health and Safety Code. The District reserves the right to reject any imported material that has come from agricultural or commercial land uses. Design-Builder must notify the District of the source of material and comply with the state and regional Water Quality Control Board Resolution and policies and, when applicable, with the guidelines of the Department of Toxic Substances Control ("DTSC").

3.10 HAZARDOUS MATERIALS

- 3.10.1 The Design-Builder agrees that it is solely responsible for investigating and performing remedial actions on all hazardous materials and other related environmental requirements located on the Project site. For the purposes of this Contract, Hazardous Materials shall also include, but are not limited to, Underground Storage Tanks. Any Hazardous Materials that are encountered beyond those described in the Contract Documents or Proposal Documents, or which reasonably could not have been discovered within the time permitted, may properly be the subject of a Change Order Request. The District agrees that the Design-Builder cannot be

considered a hazardous materials generator of any such materials in existence on the Site at the time it is given possession of the Site. "Underground Storage Tank" shall have the definition assigned to that term by Section 9001 of the Resource Conservation and Recovery Act ("RCRA"), 42 U.S.C. Section 6991, and also shall include: any tank of one thousand one hundred (1,100) gallons or less capacity used for storing motor fuel; any tank used for storing heating oil for consumption on the premises where stored; any septic tank; and any pipes connected to the above items.

- 3.10.2 The District shall not be responsible for any Hazardous Material brought to the site by the Design-Builder.
- 3.10.3 If the Design-Builder: (i) introduces and/or discharges a Hazardous Material onto the site in a manner not specified by the Contract Documents; and/or (ii) disturbs a Hazardous Material identified in the Contract Documents, the Design-Builder shall hire a qualified remediation contractor at Design-Builder's sole cost to eliminate the condition as soon as possible. Under no circumstance shall the Design-Builder perform Work for which it is not qualified. District, in its sole discretion, may require the Design-Builder to retain at Design-Builder's cost an independent testing laboratory.
- 3.10.4 If the Design-Builder encounters a Hazardous Material which may cause foreseeable injury or damage, Design-Builder shall immediately: (i) secure or otherwise isolate such condition; (ii) stop all Work in connection with such material or substance (except in an emergency situation); and (iii) notify District (and promptly thereafter confirm such notice in writing).
- 3.10.5 Subject to Design-Builder's compliance with Article 3.10.4, the District shall verify the presence or absence of the Hazardous Material reported by the Design-Builder, except as qualified under Section 3.10.2 and 3.10.4, and, in the event such material or substance is found to be present, verify that the levels of the hazardous material are below California Division of Occupational Safety and Health ("Cal/OSHA") Permissible Exposure Levels and below levels which would classify the material as a state of California or federal hazardous waste. When the material falls below such levels, Work in the affected area shall resume upon direction by the District. The Contract Time and Sum shall be extended appropriately as provided in Articles 7 and 8.
- 3.10.6 The District shall indemnify and hold harmless the Design-Builder from and against claims, damages, losses and expenses, arising from a Hazardous Material on the Project site, if such Hazardous Material: (i) was not shown on the Contract Documents or Information Available to Bidders; (ii) was not brought to the site by Design-Builder; and (iii) exceeded Cal/OSHA Permissible Exposure Levels or levels which would classify the material as a state of California or federal hazardous waste. The indemnity obligation in this Article shall not apply to:
 - .1 Claims, damages, losses or expenses arising from the breach of contract, negligence, or willful misconduct of Design-Builder, its suppliers, its Subcontractors of all tiers, and/or any persons or entities working under Design-Builder; and
 - .2 Claims, damages, losses or expenses arising from a Hazardous Material subject to Article 3.10.3.
- 3.10.7 In addition to the requirements in Article 3.28, Design-Builder shall indemnify and hold harmless the District from and against claims, damages, losses, and expenses, arising from a Hazardous Material on the Project site, if such Hazardous Material exceeded Cal/OSHA Permissible Exposure Levels or levels which would classify the material as a state of California or federal hazardous waste, and was either i) shown on the Contract Documents or Information Available to Bidders; or (ii) brought to the site by Design-Builder. Nothing in this paragraph shall obligate the Design-Builder to indemnify District in the event of the sole negligence of the District, its officers, agents, or employees.

3.11 CONSTRUCTION DOCUMENTS

3.11.1 Construction Documents

- .1 Upon receipt of the Notice to Proceed, the Design-Builder shall instruct the Architect of Record to commence the design of the building systems and the preparation of the Construction Documents. The Construction Documents shall provide information customarily necessary in documents for projects of similar size, complexity, and quality. The Construction Documents shall include all information required by the building trades to complete the construction of the Project, other than such details customarily developed by others during construction. The District's review of the construction documents shall be conducted in accordance with the approved Contract Schedule with procedures set forth in Article 3.16 of the General Conditions relating to Schedule. Such review shall not relieve the Design-Builder from its responsibilities under this Contract. Such review shall not be deemed an approval or waiver by the District of any deviation from, or of the Design-Builder's failure to comply with, any provision or

requirement of the Contract Documents, unless such deviation or failure has been identified as such in writing in the document submitted by the Design-Builder and approved by the District.

- .2 However, it is acknowledged by the parties hereto that inherent in a design-build concept, bridging or otherwise, the production and review of Construction Documents shall be approved by DSA prior to any work commencing. The Design-Build team has the option to complete the Work in increments if DSA approves the process. The Design-Builder shall limit the Construction Document packages for construction to a reasonable number, not more than allowed by DSA that stipulated in the Special Conditions, unless approved in writing by the District. Contract Schedule shall indicate the times for the District to review the completion of each such portion of the Construction Documents and a reasonable time for review of same.
- .3 The Design-Builder shall submit completed packages of the Construction Documents for review by the District and the DSA at the times indicated on the Contract Schedule and as defined in the Scheduling Specification. Review meetings between the Design-Builder and the District to review the Construction Document packages shall be scheduled and held so as not to delay the Work. After reviewing the Construction Documents package for conformance to the Criteria Documents, the District shall issue a Construction Notice to Proceed to the Design-Builder.
- .4 The Construction Documents for hazardous and/or toxic abatement efforts and demolition activity shall be of sufficient clarity and shall be fully detailed when submitted to the District for review. Design-Build team shall get all approvals and permits required by the Air Pollution Control District if completing any hazardous material removal.
- .5 At any stage of the Project, if the latest cost estimate, whether submitted by the Architect of Record, Design Professional of Record, or any other party, is [three percent (3%)] or more over budget, Design-Builder, if requested to do so by the District, shall instruct the Architect of Record and/or Design Professionals of Record to revise all applicable Construction Documents to the District's satisfaction, at no additional cost to the District.

3.11.2 Shop Drawings, Product Data, Samples, Materials, and Equipment

- .1 Shop drawings means drawings submitted to Design-Builder by subcontractors, manufacturers, suppliers, or distributors, showing in detail the proposed fabrication and assembly of building elements and the installation (e.g., form, fit, and attachment details) of materials or equipment.
- .2 Design-Builder shall coordinate all submittals and review them for accuracy, completeness, and compliance with the requirements of the Contract Documents and the Design-Builder's Construction Documents, and shall indicate its approval thereon as evidence of such coordination and review. All submittals shall be finalized only after District has approved the information.
- .3 Materials and equipment incorporated in the Work shall match the approved samples within tolerances appropriate to the items, and as may be described in the Contract Documents.
- .4 The Design-Builder shall submit shop drawings approved by the Architect of Record and samples of submittals that relate to finish materials and products.
- .5 Any variation in quality must be approved by the District.

3.11.3 Field Engineering

- .1 The Design-Builder shall retain and pay expenses of a civil engineer or land surveyor to establish on the Site the required reference points and benchmarks, establish building lines and elevations, check for building framing, plumbness, and establish on building frame the required basic grid lines. The engineer or land surveyor shall be licensed in the State of California.
- .2 The Design-Builder shall locate and protect control points prior to starting Work on the Project site and preserve permanent reference points during construction and shall require the engineer or surveyor to replace control points which become lost or destroyed.
- .3 All field engineering required for laying out the Work and establishing grades for earthwork operations shall be furnished by the Design-Builder at its expense. Layout shall be done by a registered civil engineer approved by the District Representative. Any required "as-built" drawings of the Work shall be prepared by the registered civil engineer.

3.11.4 Geotechnical and Survey

- .1 The District has provided the Design-Builder with a preliminary geotechnical report which includes supporting data, findings, and recommendations; and also, with a legal description and a project survey that are included in the Contract Documents. Additional borings may be required for DSA submittal and approval. These geotechnical borings shall be completed by the District, and the Architect of Record shall submit the report to the California Geological Survey for review and approval. The Design Work shall be consistent with both the findings and recommendations of the geotechnical report and legal description and project survey.
- .2 The Design-Builder shall verify the location and depth (elevation) of all existing utilities and services before performing any excavation Work.
3. When a soils investigation report for the Project site is available, such report shall not be a part of the Contract Documents. Any information obtained from such report as to subsurface soil condition, or to elevations of existing grades or elevations of underlying rock, is approximate only and is not guaranteed. Design-Builder acknowledges that any soils investigation report (including any borings) was prepared for purposes of design only and Design-Builder is required to examine the site before submitting its bid and must make whatever tests it deems appropriate to determine the underground condition of the soil.

3.12 MONTHLY REPORTS

- 3.12.1 The Design-Builder shall prepare and submit to the District both the Construction Documents Phase and the Construction Phase monthly reports on the Work accomplished during the prior monthly period. Such reports shall be prepared in a manner and in a format approved by the District. Reports shall be furnished at the time of submission of each monthly application for payment. The monthly report shall also set forth the Design-Builder's projected progress for the forthcoming month.

3.13 OTHER REPORTS

- 3.13.1 The Design-Builder shall cooperate with the District in preparing, or causing to be prepared, all or part of periodic project reports, including daily reports, required by the DSA and other state or federal agencies.

3.14 NOTICES OF LABOR DISPUTE

- 3.14.1 If Design-Builder has knowledge that any actual or potential labor dispute is delaying, or threatens to delay, the timely performance of the Work, Design-Builder shall immediately give notice including all relevant information to the District.
- 3.14.2 Design-Builder agrees to insert the substance of this Article in any subcontract to which a labor dispute may delay the timely performance of the Work, except that each subcontract shall provide that in the event its timely performance is delayed or threatened by delay by any actual or potential labor dispute, the subcontractor shall immediately notify the next higher tier subcontractor or Design-Builder, as the case may be, of all relevant information concerning the dispute.

3.15 GUARANTEE

- 3.15.1 The Design-Builder unconditionally guarantees the Work shall be completed in accordance with the requirements of the Contract Documents and shall remain free of defects in workmanship and materials for a period of two (2) years minimum from the date of Final Completion, unless a longer guarantee period is specifically called for in the Contract Documents. The Design-Builder shall repair or replace any and all work, together with any adjacent work that may have been damaged or displaced, which was not in accordance with the requirements of the Contract Documents, or that may be defective in its workmanship or material, within the guarantee period specified in the Contract Documents, without any expense whatsoever to the District; ordinary wear and tear and abuse excepted.
- 3.15.2 The Design-Builder further agrees, within **fourteen (14)** days, or as such shorter period as may be designated for emergency repairs, after being notified in writing by the District, of any work not in accordance with the requirements of the Contract Documents or any defects in the Work, that the Design-Builder shall commence and execute, with due diligence, all work necessary to fulfill the terms of the guarantee. If the District finds that the Design-Builder fails to perform any of the work under the guarantee, the District may elect to have the work completed at the Design-Builder's expense and the Design-Builder shall pay costs of the work upon demand. The District shall be entitled to all costs, including reasonable attorneys' fees and

consultants' expenses necessarily incurred upon the Design-Builder's refusal to pay the above costs.

- 3.15.3 Notwithstanding the foregoing Article 3.15.2, in the event of an emergency constituting an immediate hazard to health or safety of District employees, property, or licensees, the District may undertake, at the Design-Builder's expense and without prior notice, all work necessary to correct such hazardous condition(s) when it is caused by work of the Design-Builder not being in accordance with the requirements of the Contract Documents.
- 3.15.4 Design-Builder shall furnish the District with all warranty and guarantee documents prior to final acceptance of the Project by the District.
- 3.15.5 This Article shall not limit the District's rights under this Contract or with respect to latent defects, gross mistakes, or fraud. The District specifically reserves all rights related to defective work, including, but not limited to, the defect claims pursuant to California Code of Civil Procedure Section 337.15.

3.16 SCHEDULES REQUIRED OF DESIGN-BUILDER

- 3.16.1 The Schedule prepared by the Design-Builder during the Design Phase shall illustrate all Contract Milestones and Schedule Activities. The Design-Builder shall develop its required Contract schedules for review and approval by District based on and consistent with such Preliminary Schedule.
- 3.16.2 At the request of the District, Design-Builder shall submit an updated Contract Schedules to District's Representative in the form and within the time limits required by the Contract Documents, or, if no such time period is specified, within a reasonable period of time. District's Representative shall determine acceptability of the Contract Schedule and updated Contract Schedules within the time limits required by the Contract Documents, or if no such time period is specified, within a reasonable period of time. If District's Representative deems the Contract Schedule or updated Contract Schedule unacceptable, it shall specify in writing to Design-Builder the basis for its objection.
- 3.16.3 The Contract Schedule and updated Contract Schedules shall represent a practical plan to complete the Work within the Contract Time. Schedules showing the Work completed in less than the Contract Time as reflected in the Preliminary Schedule may be acceptable if judged by District's Representative to be practical. Schedules showing the Work completed beyond the Contract Time may be submitted under the following circumstances:
 - .1 If accompanied by a Change Order Request seeking an adjustment of the Contract Time consistent with the requirements of Article 8.4 for Adjustment of the Contract Time for Delay; or
 - .2 If the Contract Time has passed, or if it is a practical impossibility to complete the Work within the Contract Time, then the updated Contract Schedule or Fragnet Schedule shall show completion at the earliest practical date.District's Representative shall timely review the updated Contract Schedule or Fragnet Schedule submitted by Design-Builder. If District's Representative determines that additional supporting data are necessary to fully evaluate the updated Contract Schedule or Fragnet Schedule, District's Representative shall request such additional supporting data in writing. Such data shall be furnished no later than **ten (10)** days after the date of such request. District's Representative shall render a decision promptly and in any case within **thirty (30)** days after the later of the receipt of the updated Contract Schedule or Fragnet Schedule or the deadline for furnishing such additional supporting data. Failure of District's Representative to render a decision by the applicable deadline shall be deemed a decision denying approval of the updated Contract Schedule or Fragnet Schedule. Acceptance of any schedule showing completion beyond the Contract Time by District's Representative shall not change the Contract Time and is without prejudice to any right of the District. The Contract Time, not the Contract Schedule, shall control in the determination of liquidated damages payable by Design-Builder under Article 1.3.2 of the Agreement and in the determination of any delay under Article 8 of the General Conditions.
- 3.16.4 If a Contract Schedule showing the Work completed in less than the Contract Time is accepted, Design-Builder shall not be entitled to extensions of the Contract Time for Excusable Delays or to adjustments of the Contract Sum for Compensable Delays until such delays extend the Final Completion of the Work beyond the expiration of the Contract Time.
- 3.16.5 Design-Builder shall prepare and keep current, to the reasonable satisfaction of District's Representative, a schedule of submittals, as required by the Specifications, and that is coordinated with the Contract Schedule.

- 3.16.6 The Contract Schedule and the updated Contract Schedules shall meet the following requirements:
- .1 Schedules must be suitable for monitoring progress of the Work.
 - .2 Schedules must provide necessary data about the timing of District decisions and District furnished items.
 - .3 Schedules must be in sufficient detail to demonstrate adequate planning of the Work.
 - .4 Schedules must represent a practical plan to perform and complete the Work within the Contract Time.
- 3.16.7 District's Representative's review of the form and general content of the Contract Schedule and updated Contract Schedules is for the purpose of determining if the above-listed requirements have been satisfied.
- 3.16.8 Design-Builder shall plan, develop, supervise, control, and coordinate the performance of the Work so that its progress and the sequence and timing of Work shall permit its completion within the Contract Time, any Contract milestones, and any Contract phases.
- 3.16.9 In preparing the Preliminary Contract Schedule, the Contract Schedule, and updated Contract Schedules, Design-Builder shall obtain such information and data from Subcontractors as may be required to develop a reasonable and appropriate schedule for performance of the Work and shall provide such information and data to the District's Representative upon request. Design-Builder shall continuously obtain from Subcontractors information and data about the planning for and progress of the Work and the delivery of equipment, shall coordinate and integrate such information and data into updated Contract Schedules, as appropriate, and shall monitor the progress of the Work and the delivery of equipment.
- 3.16.10 Design-Builder shall act as the expeditor of potential and actual delays, interruptions, hindrances, or disruptions for its own forces and those forces of Subcontractors, regardless of tier.
- 3.16.11 Design-Builder shall cooperate with District's Representative in the development of the Contract Schedule and all associated updates.
- 3.16.12 District's Representative's acceptance of and/or its review of comments about any schedule or scheduling data shall not relieve Design-Builder from its sole responsibility to plan for, perform, and complete the Work within the Contract Time. Acceptance of and/or review comments about any schedule shall not transfer responsibility for any schedule to District's Representative or District nor imply their agreement with (1) any assumption upon which such schedule is based, or (2) any matter underlying or contained in such schedule. Failure of District's Representative to discover errors or omissions in schedules that it has reviewed, or to inform Design-Builder that Design-Builder, Subcontractors, or others are behind schedule, or to direct or enforce procedures for complying with the Contract Schedule, shall not relieve Design-Builder from its sole responsibility to perform and complete the Work within the Contract Time and shall not be a cause for an adjustment of the Contract Time or the Contract Sum.

3.17 AS-BUILT DOCUMENTS

- 3.17.1 Design-Builder shall maintain one (1) set of as-built drawings and specifications, which shall be kept up-to-date during the Work of the Contract. All changes which are incorporated into the Work which differ from the documents as drawn and written and approved shall be noted on the as-built set. Set shall be reviewed monthly. Notations shall reflect the actual materials, equipment and installation methods used for the Work; each revision shall be initialed and dated by Superintendent. Prior to filing of the Notice of Completion, each drawing and the specification cover shall be signed by Design-Builder and dated, attesting to the completeness of the information noted therein. As-built Documents shall be turned over to the District's Representative and shall become part of the Record Documents.

3.18 DOCUMENTS AND SAMPLES AT PROJECT SITE

- 3.18.1 Design-Builder shall maintain the following at the Project site:
- .1 One (1) set of DSA approved documents including drawings and specifications.
 - .2 One (1) as-built copy of the Contract Documents, in good order and marked to record current changes and selections made during construction.
 - .3 The current Approved Contract Schedule.

- 4 Shop Drawings, Product Data, and Samples.
- 5 All other required submittals.

These documents shall be available to District's Representative and shall be delivered to District's Representative for submittal to District upon the earlier of Final Completion or termination of the Contract.

3.19 SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES

3.19.1 Definitions:

- 1 "Shop Drawings" are drawings, diagrams, schedules, and other data specially prepared for the Work by Design-Builder or a Subcontractor to illustrate some portion of the Work.
- 2 "Product Data" are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by Design-Builder to illustrate or describe materials or equipment for some portion of the Work.
- 3 "Samples" are physical examples that illustrate materials, equipment, or workmanship and establish standards by which the Work shall be judged.

3.19.2 Shop Drawings, Product Data, Samples, and similar submittals are not Contract Documents. Their purpose is to demonstrate, for those portions of the Work for which submittals are required, how Design-Builder proposes to conform to the information given and the design concept expressed in the Contract Documents.

3.19.3 Design-Builder shall review, approve, and submit to District's Representative Shop Drawings, Product Data, Samples, and similar submittals required by the Contract Documents with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of District or of Separate Contractors. Submittals made by Design-Builder that are not required by the Contract Documents may be returned without action by District's Representative.

3.19.4 Design-Builder shall perform no portion of the Work requiring submittal and review of Shop Drawings, Product Data, Samples, or similar submittals until the respective submittal has been reviewed by District's Representative and no exceptions have been taken by District's Representative. Such Work shall be in accordance with approved submittals and the Contract Documents.

3.19.5 By approving and submitting Shop Drawings, Product Data, Samples, and similar submittals, Design-Builder represents that it has determined or verified materials and field measurements and conditions related thereto, and that it has checked and coordinated the information contained within such submittals with the requirements of the Contract Documents and Shop Drawings for related Work.

3.19.6 If Design-Builder discovers any conflicts, omissions, or errors in Shop Drawings or other submittals, Design-Builder shall notify District's Representative and receive instruction before proceeding with the affected Work. Design-Builder shall be responsible to correct to the satisfaction of District, any conflicts, omissions, or errors in Shop Drawings or other submittals.

3.19.7 Design-Builder shall not be relieved of responsibility for deviations from requirements of the Contract Documents by District's Representative's review of Shop Drawings, Product Data, Samples, or similar submittals, unless Design-Builder has specifically informed District's Representative in writing of such deviation at the time of submittal and District's Representative has given written approval of the specific deviation. Design-Builder shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples, or similar submittals by District's Representative's review, acceptance, comment, or approval thereof.

3.19.8 Design-Builder shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples, or similar submittals, to revisions other than those requested by District's Representative on previous submittals.

3.19.9 District shall review first resubmittal of Shop Drawing at its cost. District reserves the right to reduce the Contract Sum by Change Order for its cost for any subsequent reviews of Shop Drawing resubmittals.

3.20 USE OF SITE AND CLEAN UP

3.20.1 Design-Builder shall confine operations at the Project site to areas permitted by law, ordinances, permits, and

the Contract Documents. Design-Builder shall not unreasonably encumber the Project site with materials or equipment.

3.20.2 Design-Builder shall, during performance of the Work, keep the Project site and surrounding area free from the accumulation of excess dirt, waste materials, and rubbish caused by Design-Builder. Design-Builder shall remove all excess dirt, waste material, and rubbish caused by the Design-Builder; tools; equipment; machinery; and surplus materials from the Project site and surrounding area at the completion of the Work.

3.20.3 Personnel of Design-Builder and Subcontractors shall not occupy, live upon, or otherwise make use of the Project site during any time that Work is not being performed at the Project site, except as otherwise provided in the Contract Documents.

3.21 CUTTING, FITTING, AND PATCHING

3.21.1 Design-Builder shall do all cutting, fitting, or patching of the Work required to make all parts of the Work come together properly and to allow the Work to receive or be received by work of Separate Contractors shown upon, or reasonably implied by, the Contract Documents. All work shall be coordinated with the District and Site and be scheduled after school hours.

3.21.2 Design-Builder shall not endanger the Work, the Project, or adjacent property by cutting, digging, or otherwise. Design-Builder shall not cut or alter the work of any Separate Contractor without the prior consent of District's Representative.

3.22 ACCESS TO WORK BY DISTRICT

3.22.1 District, District's Representative, their consultants, and other persons authorized by District shall at all times have access to the Work wherever it is in preparation or progress. Design-Builder shall provide safe and proper facilities for such access and for inspection.

3.23 ROYALTIES AND PATENTS

3.23.1 The Design-Builder shall include in its bid amount the patent fees or royalties on any patented article or process furnished or used in the Work. Design-Builder shall assume all liability and responsibility arising from the use of any patented, or allegedly patented, materials, equipment, devices or processes used in or incorporated with the Work, and shall defend, indemnify and hold harmless the District and the Indemnified Parties from and against any and all liabilities, demands, claims, damages, losses, costs and expenses, of whatsoever kind or nature, arising from such use.

3.24 DIFFERING SITE CONDITIONS

3.24.1 If Design-Builder encounters any of the following conditions at the site, Design-Builder shall immediately notify the District's Representative in writing of the specific differing conditions before they are disturbed and before any affected Work is performed, and permit investigation of the conditions:

- .1 Subsurface or latent physical conditions at the site which differ materially from those indicated in this Contract, or if not indicated in this Contract, in the Information Available to Bidders; 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.

3.24.2 Design-Builder shall be entitled to access the Unspecified Allowance described in the Price Proposal Form. If the Unspecified Allowance is exhausted, Design-Builder may be entitled to an adjustment to the Contract Sum, in addition to an adjustment in Contract Time as the result of extra costs and/or delays resulting from a materially differing site condition. The options described in this paragraph are available only if Design-Builder fulfills the following conditions:

- .1 Design-Builder fully complies with Article 3.24.1 above; and
- .2 Design-Builder fully complies with Article 4 of the General Conditions (including the timely filing of a Change Order Request and all other requirements for Change Orders Requests and Claims).

3.24.3 Adjustments to the Contract Sum and/or Contract Time shall be subject to the procedures and limitations set forth in Articles 7 and 8 of the General Conditions.

3.25 CONCEALED, UNFORESEEN, OR UNKNOWN CONDITIONS OR EVENTS

3.25.1 Except and only to the extent provided otherwise in Articles 3.24, 7, and 8 of the General Conditions, by signing the Agreement, Design-Builder agrees:

- .1 To bear the risk of concealed, unforeseen or unknown conditions and events, if any, which may be encountered in performing the Contract; and
- .2 That Design-Builder's Price Proposal Form for the Contract was made with full knowledge of this risk.

In agreeing to bear the risk of concealed, unforeseen, or unknown conditions and events, Design-Builder understands that, except and only to the extent provided otherwise in Articles 3.24, 7, and 8 of the General Conditions, concealed, unforeseen, or unknown conditions shall not excuse Design-Builder from its obligation to achieve full completion of the Work within the Contract Time, and shall not entitle the Design-Builder to an adjustment of the Contract Sum.

3.25.2 If, as the result of concealed, unforeseen, or unknown conditions or events, the District issues a Change Order or Construction Change Directive that changes design details from those details depicted in the Criteria Documents, Design-Builder shall be entitled, subject to compliance with all the provisions of the Contract, including those set forth in Articles 4, 7, and 8 of the General Conditions, to an adjustment of the Contract Sum and/or Contract Time, for the cost and delay resulting from implementing the changes to the design. Except as provided in this Article 3.25.2, or as may be expressly provided otherwise in the Contract, there shall be no adjustment of the Contract Sum and/or Contract Time as a result of concealed, unforeseen, or unknown conditions or events.

3.25.3 Design-Builder shall, as a condition precedent to any adjustment in Contract Sum or Contract Time under this Article 3.25.3, fully comply with Article 4 of the General Conditions (including the timely filing of a Change Order Request and all other requirements for Change Orders Requests and Claims).

3.26 INFORMATION AVAILABLE TO BIDDERS

3.26.1 Any information provided pursuant to Request for Proposals is subject to the following provisions:

- .1 The information is made available for the convenience of Proposers and is not a part of the Contract.
- .2 The Design-Builder may rely on written descriptions of physical conditions included in the information to the extent such reliance is reasonable.
- .3 Other components of the information, including but not limited to recommendations, may not be relied upon by Design-Builder. District shall not be responsible for any interpretation of or conclusion drawn from the other components of the information by the Design-Builder.

3.27 LIABILITY FOR AND REPAIR OF DAMAGED WORK

3.27.1 Design-Builder shall be liable for any and all damages and losses to the Project (whether by fire, theft, vandalism, earthquake or otherwise) prior to District's acceptance of the Project as fully completed, except that Design-Builder shall not be liable for earthquake in excess of magnitude 3.5 on the Richter Scale, tidal wave, or flood, provided that the damages or losses were not caused in whole or in part by the negligent acts or omissions of Design-Builder, its officers, agents or employees (including all Subcontractors and suppliers of all tiers). As used herein, "flood" shall have the same meaning as in the builder's risk property insurance.

3.27.2 Design-Builder shall promptly repair and replace any Work or materials damaged or destroyed for which the Design-Builder is liable under Article 3.27.1 above.

3.28 INDEMNIFICATION

3.28.1 Design-Builder shall indemnify, defend, and hold harmless District, the Indemnified Parties, District's Representative, District's Representative's consultants, and their respective directors, officers, agents, and employees from and against losses (including, without limitation, the cost of repairing Defective Work and remedying the consequences of Defective Work) arising out of, resulting from, or relating to the following:

- .1 The failure of Design-Builder to perform its obligations under the Contract.

- 2 The inaccuracy of any representation or warranty by Design-Builder given in accordance with or contained in the Contract Documents.
 - 3 Any claim of damage or loss by any Subcontractor against District arising out of any alleged act or omission of Design-Builder or any other Subcontractor, or anyone directly or indirectly employed by Design-Builder or any Subcontractor.
 - 4 Any claim of damage or loss resulting from Hazardous Materials introduced, discharged, or disturbed by Design-Builder, as required per Article 3.10.
- 3.28.2 The District shall not be liable or responsible for any accidents, loss, injury (including death), or damages happening or accruing during the term of the performance of the Work herein referred to or in connection therewith, to persons and/or property, and Design-Builder shall fully indemnify, defend, and hold harmless and protect the District and the Indemnified Parties from and against the same as provided in Article 3.28.1 above. In addition to the liability imposed by law upon the Design-Builder for damage or injury (including death) to persons or property by reason of the negligence of the Design-Builder, its officers, agents, employees or Subcontractors, which liability is not impaired or otherwise affected hereby, the Design-Builder shall defend, indemnify, hold harmless, release, and forever discharge the District and the Indemnified Parties from and against and waive any and all responsibility of same for every expense, liability, or payment by reason of any damage or injury (including death) to persons or property suffered or claimed to have been suffered through any negligent act, omission, or willful misconduct of the Design-Builder, its officers, agents, employees, or any of its Subcontractors, or anyone directly or indirectly employed by either of them or from the condition of the premises or any part of the premises while in control of the Design-Builder, its officers, agents, employees, or any of its Subcontractors, or anyone directly or indirectly employed by either of them, arising out of the performance of the Work called for by this Contract. Design-Builder agrees that this indemnity and hold harmless shall apply even in the event of negligence of District and the Indemnified Parties, regardless of whether such negligence is contributory to any claim, demand, loss, damage, injury, expense, and/or liability; but such indemnity and hold harmless shall not apply (i) in the event of the sole negligence of District, its officers, agents, or employees; or (ii) to the extent that the District shall indemnify and hold harmless the Design-Builder for Hazardous Materials pursuant to Article 3.10.6.
- 3.28.3 In claims against any person or entity indemnified under this Article 3.28 that are made by an employee of Design-Builder or any Subcontractor, a person indirectly employed by Design-Builder or any Subcontractor, or anyone for whose acts Design-Builder or any Subcontractor may be liable, the indemnification obligation under this Article 3.28 shall not be limited by any limitation on amount or type of damages, compensation, or benefits payable by or for Design-Builder or any Subcontractor under workers' compensation acts, disability benefit acts, or other employee benefit acts.
- 3.28.4 The indemnification obligations under this Article 3.28 shall not be limited by any assertion or finding that the person or entity indemnified is liable by reason of a non-delegable duty.
- 3.28.5 Design-Builder shall indemnify District from and against losses resulting from any claim of damage made by any Separate Contractor against District arising out of any alleged acts or omissions of Design-Builder, any Subcontractor, anyone directly or indirectly employed by either of them, or anyone for whose acts either of them may be liable.
- 3.28.6 Design-Builder shall indemnify Separate Contractors from and against losses arising out of the negligent acts, omissions, or willful misconduct of Design-Builder, any Subcontractor, anyone directly or indirectly employed by either of them, or anyone for whose acts either of them may be liable.
- 3.28.7 Design-Builder shall indemnify, defend, and hold harmless District and the Indemnified Parties (collectively, "Indemnitee"), against all liability, demands, claims, costs, damages, injury including death, settlements, and expenses (including without limitation, interest, and penalties) incurred by Indemnitee arising out of the performance of services or Design-Builder's other obligations under this Contract, but only in proportion to and to the extent such losses are caused by or result from (1) the negligent acts or omissions of Design-Builder, its officers, agents, employees, subcontractors, consultants, or any person or entity for whom Design-Builder is responsible (collectively, "Indemnitor"); (2) the breach by Indemnitor of any of the provisions of this Contract; or (3) willful misconduct by Indemnitor.
- .1 The indemnification obligations under this Article 3.28 shall not be limited by any assertion or finding that (1) the person or entity indemnified is liable by reason of non-delegable duty; or (2) the losses were caused in part by the negligence of, breach of contract by, or violation of law by Indemnitee. The obligation to defend shall arise regardless of any claim or assertion that Indemnitee caused or contributed to the losses. Indemnitor's reasonable defense costs (including attorney and expert fees) incurred in

providing a defense for Indemnitees shall be reimbursed by District except to the extent such defense costs arise, under principles of comparative fault, from Indemnitor's (a) negligent acts or omissions; (b) breach of any of the provisions of this Contract; or (c) willful misconduct.

.2 Design-Builder shall indemnify, defend, and save harmless Indemnitee from and against all loss, cost, expense, royalties, claims for damages or liability, in law or in equity, including, without limitation, attorney's fees, court costs, and other litigation expenses that may at any time arise or be set up for any infringement (or alleged infringement) of any patent, copyright, trade secret, trade name, trademark or any other proprietary right of any person or entity in consequence of the use on the Project by Indemnitee of the Design Materials or Construction Documents (including any method, process, product, concept specified or depicted) supplied by Indemnitor in the performance of this Contract.

3.28.8 Nothing in this Contract, including the provisions of this Article 3, shall constitute a waiver or limitation of any rights which Indemnitee may have under applicable law, including without limitation, the right to implied indemnity.

ARTICLE 4. ADMINISTRATION OF THE CONTRACT

4.1 ADMINISTRATION OF THE CONTRACT BY DISTRICT'S REPRESENTATIVE

4.1.1 District's Representative shall provide administration of the Contract as provided in the Contract Documents and shall be the representative of District. District's Representative shall have authority to act on behalf of District only to the extent provided in the Contract Documents.

The District shall designate, from time to time, one or more representatives authorized to act on the District's behalf with respect to the Project, together with the scope of his/her respective authority. Functions for which this Contract provides shall be performed by the District may be delegated by the District only by written notice to the Design-Builder from the District. The Design-Builder shall not be entitled to rely on directions (nor shall it be required to follow the directions) from anyone outside the scope of that person's authority as set forth in written authorization pursuant to this Contract. Directions and decisions made by District's Representative within his/her respective authority shall be binding on the District.

4.1.2 During the term of this Contract, District's Representative shall have the right to review Design-Builder's Design Professionals' Work at such intervals as deemed appropriate by District's Representative. However, no actions taken during such review or site visit by District's Representative shall relieve Design-Builder of any of its obligations of single-point responsibility for the design and construction of this Project nor form the basis for a Claim if such actions extend the Contract's completion date beyond the Contract Time.

4.1.3 District's Representative shall not have control over, shall not be in charge of, and shall not be responsible for design or construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs in connection with the Work, since these are solely Design-Builder's responsibility.

4.1.4 Except as otherwise provided in the Contract Documents or when direct communications have been specifically authorized, District and Design-Builder shall communicate through District's Representative. Except when direct communication has been specifically authorized in writing by District's Representative, communications by Design-Builder with District's consultants and District's Representative's consultants shall be through District's Representative. Communications by District and District's Representative with Subcontractors shall be through Design-Builder. Communications by Design-Builder and Subcontractors with Separate Contractors shall be through District's Representative. Design-Builder shall not rely on oral or other non-written communications.

4.1.5 Based on District's Representative's Project site visits, review of Design Work, and evaluations of Design-Builder's Applications for Payment, District's Representative shall recommend amounts, if any, due Design-Builder and shall issue Certificates for Payment in such amounts.

4.1.6 District's Representative shall have the authority to reject the Work, or any portion thereof, which does not conform to the Contract Documents. District's Representative shall have the authority to stop the Work, or any portion thereof. Whenever District's Representative considers it necessary, or advisable, for implementation of the intent of the Contract Documents, District's Representative shall have the authority to require additional inspection or testing of the Work in accordance with the Contract Documents, whether or not such Work is fabricated, installed, or completed. However, no authority of District's Representative conferred by the Contract Documents nor any decision made in good faith either to exercise or to not exercise such authority shall give rise to a duty or responsibility of District or District's Representative to Design-Builder

or any person or entity claiming under or through Design-Builder.

4.1.7 District's Representative shall have the authority to conduct inspections as provided in the Contract Documents, to take Beneficial Occupancy, and to determine the dates of Substantial Completion and Final Completion; shall receive for review and approval any records, written warranties, and related documents required by the Contract Documents and assembled by Design-Builder; and shall issue a final Certificate for Payment upon Design-Builder's compliance with the requirements of the Contract Documents.

4.1.8 District's Representative shall be, in the first instance, the interpreter of the requirements of the Contract Documents and the judge of performance thereunder by Design-Builder. Should Design-Builder discover any conflicts, omissions, or errors in the Construction Documents or the Contract Documents; have any questions about the interpretation or clarification of the Contract Documents; question whether Work is within the scope of the Contract Documents; then, before proceeding with the Work affected, Design-Builder shall notify District's Representative in writing and request interpretation or clarification. District's Representative's response to questions and requests for interpretations, clarifications, instructions, or decisions shall be made with reasonable promptness. Should Design-Builder proceed with the Work affected before receipt of a response from District's Representative, any portion of the Work that is not done in accordance with District's Representative's interpretations, clarifications, instructions, or decisions shall be removed or replaced and Design-Builder shall be responsible for all resultant losses.

4.2 DESIGN-BUILDER CHANGE ORDER REQUESTS

4.2.1 The Design-Builder was provided an Allowance as part of the Contract Amendment. Requests for compensation beyond the amount of the Allowance will be strictly restricted to the conditions and limitations set forth below. Requests for Change Orders will be guided by the general proposition that Change Orders will be limited to circumstances that could not have been anticipated by the Design-Builder in the exercise of due diligence. . The conditions under which the Design-Builder may be eligible for a Change Order is as follows:

- a. District change in scope;
- b. Force Majeure events;
- c. Differing site conditions;
- d. Delays in the shipment of materials or supplies;
- e. District suspension of Work;
- f. Changes in applicable law, provided that Design Builder cooperates with District in mitigating the adverse impact of any change in the law;
- g. Unreasonable and unanticipated delays in the government approvals, beyond the control of the Design-Builder; and
- h. District prevention or disruption of Design-Builder's ability to access the site or any portion thereof.

Conditions precedent to obtaining an adjustment of the Contract Sum and/or Contract Time payment of money or other relief with respect to the Contract Documents, for any other reason, are:

4.2.1.1 Timely submission of a Change Order Request that meets the requirements of Articles 4.2.2.1 and 4.2.2.2 below; and

4.2.1.2 If requested, timely submission of additional information requested by the District's Representative pursuant to Article 4.2.2.3 below.

4.2.2 Change Order Request:

4.2.2.1 A Change Order Request shall be deemed timely submitted if, and only if, it is submitted within **seven (7)** days of the date the Design-Builder discovers, or reasonably should discover, the circumstances giving rise to the Change Order Request, unless additional time is allowed in writing by District's Representative for submission of the Change Order Request, provided that if:

- .1 The Change Order Request includes compensation sought by a Subcontractor; AND
 - .2 The Design-Builder requests in writing to the District's Representative, within the seven (7) day time period, additional time to permit Design-Builder to conduct an appropriate review of the Subcontractor Change Order Request, then the time period for submission of the actual Change Order Request shall be extended by the number of days specified in writing by the District's Representative.
- 4.2.2.2 A Change Order Request must state that it is a Change Order Request, state and justify the reason for the request, and specify the amount of any requested adjustment of the Contract Sum, Contract Time, and/or other monetary relief. If the Design-Builder requests an adjustment to the Contract Sum or other monetary relief, the Design-Builder shall submit the following with the Change Order Request:
- .1 A completed Cost Proposal in the form contained in the Exhibits meeting the requirements of Article 7 of the General Conditions; OR
 - .2 A partial Cost Proposal and a declaration of what required information is not then known to Design-Builder. If Design-Builder failed to submit a completed Cost Proposal with the Change Order Request, Design-Builder shall submit a completed Cost Proposal meeting the requirements of Article 7 within **seven (7)** days of the date the Design-Builder submitted the Change Order Request unless additional time is allowed by the District's Representative.
- 4.2.2.3 Upon request by District's Representative, Design-Builder shall submit such additional information as may be requested by District's Representative for the purpose of evaluating the Change Order Request. Such additional information may include but is not limited to:
- .1 If Design-Builder seeks an adjustment of the Contract Sum or other monetary relief, actual cost records for any changed or extra costs (including, without limitation, payroll records, material and rental invoices and the like) shall be submitted by the deadline established by the District's Representative, who may require such actual cost records to be submitted and reviewed, on a daily basis, by the District's Representative and/or representatives of the District's Representative.
 - .2 If Design-Builder seeks an adjustment of the Contract Time, written documentation demonstrating Design-Builder's entitlement to a time extension under Article 8.4, which shall be submitted within **fifteen (15)** days of the date requested unless the District's Representative requires an earlier submission. If requested, Design-Builder may submit a Fragnet in support of its request for a time extension. The District may, but is not obligated to, grant a time extension on the basis of a Fragnet alone, which, by its nature, is not a complete schedule analysis. If deemed appropriate by District Representative, Design-Builder shall submit a more detailed schedule analysis in support of its request for a time extension.
 - .3 If Design-Builder seeks an adjustment of the Contract Sum or other monetary relief for delay, written documentation demonstrating Design-Builder's entitlement to such an adjustment under Article 7.3.9 of the General Conditions, which shall be submitted within **fifteen (15)** days of the date requested.
 - .4 Any other information requested by the District's Representative for the purpose of evaluating the Change Order Request, which shall be submitted by the deadline established by the District's Representative.
- 4.2.3 District's Representative shall make a decision on a Change Order Request within a reasonable time after receipt of the Change Order Request. In the event the Change Order Request is submitted pursuant to Article 8.4.1, the District's Representative shall promptly review and accept or reject it within **thirty (30)** days. A final decision is any decision on a Change Order Request which states that it is final. If District's Representative issues a final decision denying a Change Order Request in whole or in part, Design-Builder may contest the decision by filing a timely Claim under the procedures specified in Article 4.4 of the General Conditions.
- 4.2.4 Design-Builder may file a written demand for a final decision by District's Representative on all or part of any Change Order Request as to which the District's Representative has not previously issued a final decision pursuant to Article 4 of the General Conditions. Such written demand may not be made earlier than the 30th day after submission of the Change Order Request. Within **thirty (30)** days of receipt of the demand,

District's Representative shall issue a final decision on the Change Order Request. The District's Representative's failure to issue a decision within the [thirty (30)] day period shall be treated as the issuance, on the last day of the [thirty (30)] day period, of a final decision to deny the Change Order Request in its entirety.

4.3 CLAIMS

- 4.3.1 The term "Claim" means a separate demand by the Design-Builder, sent by registered mail or certified mail with return receipt requested, for one of the following: (1) a time extension for relief from penalties for delay; (2) payment of money or damages for work done by or for Design-Builder and payment for which is not otherwise expressly provided; or (3) payment disputed by the District. Notwithstanding any other language in the Contract Documents, claims between the District and the Design-Builder shall be resolved pursuant to the provisions of the Public Contract Code Sections 9201 et seq. and 20104 et seq. as summarized herein, and any other applicable laws.
- 4.3.2 A Claim arises upon the issuance of a written final decision denying in whole or in part Design-Builder's Change Order Request pursuant to Article 4.2 of the General Conditions.
- 4.3.3 A Claim must include the following:
- .1 A statement that it is a Claim and a request for a decision pursuant to Article 4.5 of the General Conditions;
 - .2 A detailed factual narrative of events fully describing the nature and circumstances giving rise to the Claim, including, but not limited to, necessary dates, locations, and items of work affected;
 - .3 A certification, executed by Design-Builder, that the Claim is filed in good faith;
 - .4 A certification, executed by each Subcontractor claiming not less than five percent (5%) of the total monetary amount sought by the claim, that the Subcontractor's portion of the Claim is filed in good faith;
 - .5 A statement demonstrating that a Change Order Request was timely submitted as required by Article 4.2 of the General Conditions;
 - .6 If a Cost Proposal or declaration was required by Article 4.2 of the General Conditions, a statement demonstrating that the Cost Proposal or the declaration was timely submitted; and
 - .7 A detailed justification for any remedy or relief sought by the Claim, including to the extent applicable, the following:
 - .1 If the Claim involves Extra Work, an estimate of the costs must include the amounts claimed, including the items specified in Article 7.3.2 of the General Conditions. The cost breakdown must be provided even if the costs claimed have not been incurred when the Claim is submitted. To the extent costs have been incurred when the Claim is submitted, the Claim must include actual cost records (including, without limitation, payroll records, material and rental invoices and the like) demonstrating that costs claimed have actually been incurred. To the extent costs have not yet been incurred at the time the Claim is submitted, actual cost records must be submitted on a current basis not less than once a month during any periods costs are incurred. A cost record shall be considered current if submitted within [thirty (30)] days of the date the cost reflected in the record is incurred. At the request of the District's Representative, claimed extra costs may be subject to further verification procedures (such as having an inspector verify the performance of alleged Extra Work on a daily basis). The cost breakdown must include an itemization of costs for i) labor, including workers' names, classifications, regular hours and overtime hours worked, dates worked, and other pertinent information; ii) materials stored or incorporated in the work, including invoices, purchase orders, location of materials either stored or incorporated into the work, dates materials were transported to the project or incorporated into the work, and other pertinent information; and iii) itemization of machinery and equipment, including make, model, hours of use, dates of use, and equipment rental rates of any rented equipment.
 - .2 Design-Builder shall be responsible for all errors and omissions contained within the Construction Documents.
 - .3 If the Claim involves an extension of the Contract Time, written documentation demonstrating the Design-Builder's entitlement to a time extension under Article 8.4 of the General Conditions,

including the specific dates for which a time extension is sought and the specific reasons for entitlement of a time extension.

- .4 If the Claim involves an adjustment of the Contract Sum for delay, written documentation demonstrating the Design-Builder's entitlement to such an adjustment under Article 7.3.9 of the General Conditions, including, but not limited to, a detailed time impact analysis of the Contract Schedule. The Contract Schedule must demonstrate Design-Builder's entitlement to such an adjustment under Article 7.3.9 of the General Conditions.

4.4 ASSERTION OF CLAIMS

- 4.4.1 Claims by Design-Builder shall be first submitted to District's Representative for decision.
- 4.4.2 Notwithstanding the making of any Claim or the existence of any dispute regarding any Claim, unless otherwise directed by District's Representative, Design-Builder shall not cause any delay, cessation, or termination in or of Design-Builder's performance of the Work, but shall diligently proceed with performance of the Work in accordance with the Contract Documents.
- 4.4.3 Design-Builder shall submit a Claim in writing, together with all supporting data specified in Article 4.3.3 of the General Conditions, to District's Representative as soon as possible but not later than **[thirty (30)]** days after the date the Claim arises under Article 4.3.2 of the General Conditions, provided that after written notification to the District's Representative within such time period, the time period for submission of the Claim shall be extended by the number of days specified in writing by the District's Representative where the Claim includes compensation sought by a Subcontractor and the Design-Builder requests an extension of time to permit it to discharge its responsibilities to conduct an appropriate review of the Subcontractor claim. Any untimely Claim shall be deemed waived.
- 4.4.4 Design-Builder agrees that strict compliance with the requirements of Articles 4.2, 4.3, and 4.4 of the General Conditions are conditions precedent to Design-Builder's right to an informal conference to meet and confer to resolve a Claim, mediate a Claim, or arbitrate or litigate a Claim. Design-Builder specifically agrees to assert no Claims via an informal conference, mediation, arbitration or litigation unless there has been strict compliance with Articles 4.2, 4.3, and 4.4 of the General Conditions. The failure of Design-Builder to strictly comply with the requirements of Articles 4.2, 4.3 and 4.4 of the General Conditions constitutes a failure by Design-Builder to exhaust its administrative remedies with the District, thereby denying any court or arbitration panel of jurisdiction to adjudicate the Claim.

4.5 DECISION OF DISTRICT'S REPRESENTATIVE ON CLAIMS

- 4.5.1 District's Representative shall timely review Claims submitted by Design-Builder and provide a written response within **[forty-five (45)]** days of receipt of the Claim. If District's Representative determines that additional supporting data are necessary to fully evaluate a Claim, District's Representative shall request such additional supporting data in writing within **[thirty (30)]** days of receipt of the Claim. Such data shall be furnished no later than **[ten (10)]** days after the date of such request. Failure of District's Representative to render a decision by the applicable deadline shall be deemed a decision denying the Claim on the date of the deadline, unless, upon receipt of a Claim, Design-Builder and District mutually agree to extend the time periods provided herein, or unless otherwise extended by law. The decision of District's Representative shall be final and binding unless appealed in accordance with Articles 4.5.2, 4.6, and 4.7 of the General Conditions.

The District's Representative's decision on a Claim or dispute shall include a written statement both identifying all disputed and undisputed portions of the Claim and substantially including the following:

"This is a decision under Article 4.5 of the General Conditions of your Contract. If you are dissatisfied with the decision, and if you complied with the procedural requirements for asserting Claims specified in Article 4 of the General Conditions of your Contract, you may have the right to demand in writing an informal conference to meet and confer for settlement of any remaining issues in dispute, following which, if still dissatisfied, you may demand in writing a further resolution via nonbinding mediation, after which you have the right to arbitrate or litigate this decision. If you fail to take appropriate action within **[fifteen (15)]** days of the date of this decision, the decision shall become final and binding and not subject to further appeal."

- 4.5.2 If either Design-Builder or District disputes District's Representative's decision on a Claim, then, within **[fifteen (15)]** days after the decision of District's Representative on the Claim, or, if no decision has been issued, within **[fifteen (15)]** days from the date of the applicable deadline in Article 4.5.1 for District Representative to

render a decision, such party (the "Disputing Party") must provide written notice demanding an informal conference to meet and confer. District shall schedule the conference within [thirty (30)] days upon receipt of the notice demanding an informal conference. The parties shall attempt in good faith to resolve any controversy or Claim arising out of or relating to this Contract by negotiation at the conference.

4.6 MEDIATION

- 4.6.1 Within [ten (10)] business days following the informal conference to meet and confer stated in Article 4.5.2, if the Claim or any portion of the Claim remains in dispute, the District shall provide a written statement identifying the disputed and undisputed portions of the Claim. Within [thirty (30)] days of receipt of the statement, if either Design-Builder or District disputes any portion of the Claim, then the Disputing Party must provide written notice to the non-disputing party demanding non-binding mediation. The Design-Builder and the District shall share the associated costs equally and shall mutually agree to a mediator within [ten (10)] business days. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the Claim, with each party bearing the fees and costs of its respective mediator. Mediation shall include, but not be limited to, neutral evaluation, a dispute review board, or other negotiation or evaluation through an independent third party or board. The Design-Builder and the District may mutually agree to waive any individual mediation in writing and proceed to arbitration or litigation pursuant to this Contract.
- 4.6.2 Either Party to this Agreement may demand mediation pursuant to Public Contract Code section 9204 and may engage in the process and timelines contained therein.

4.7 LITIGATION AND ARBITRATION

- 4.7.1 Either party may provide a written notice of its election to arbitrate, or provide written notice of its election to litigate, the Claim within [thirty (30)] days after the mediation pursuant to Article 4.6.1, or, if the parties mutually agreed in writing to waive mediation, within [thirty (30)] days after the agreement is signed by both parties.
- 4.7.2 If a notice of election to arbitrate or litigate is not given by either party within [thirty (30)] days pursuant to Article 4.7.1, District's Representative's decision on the Claim shall be final and binding and not subject to appeal or challenge.
- 4.7.3 If the Disputing Party gives timely notice of its election to arbitrate the District's Representative's decision on a Claim, Disputing Party shall have the right, within [one hundred twenty (120)] days after a Notice of Completion, or a Notice of Cessation, as applicable, is filed for the Contract, to make a demand for arbitration in accordance with Article 4.7. Failure to perfect a Claim for which a timely election to arbitrate has been made by the timely filing of a demand for arbitration and timely payment of all applicable and required fees to the American Arbitration Association ("AAA") shall result in the District's Representative's decision on said Claim becoming final and binding and not subject to appeal or challenge. If the Disputing Party makes a timely demand for arbitration, and the amount of the Claim in question, when combined with all other Claims, if any, which are the subject of previously filed demands for arbitration that have not been resolved by settlement or arbitration award, is One Hundred Thousand Dollars (\$100,000) or more, then the other party may elect to litigate all such Claims by filing a written notice with the AAA within thirty (30) days after its receipt of notice from the AAA of the Disputing Party's demand for arbitration of the Claim that raises the total amount of Claims subject to arbitration to One Hundred Thousand Dollars (\$100,000) or more. If the other party fails to give notice of its election to litigate within such thirty (30) day period, it shall be deemed to have consented to arbitration and waived the right to litigate. If, after commencement of arbitration, the amount of unresolved Claims in arbitration are allowed to be increased to One Hundred Thousand Dollars (\$100,000) or more, through an AAA-allowed amendment or otherwise, either party may elect to litigate within thirty (30) days following the date that the electing party first receives written notification from the AAA that total Claims in arbitration equal or exceed One Hundred Thousand Dollars (\$100,000). If neither party gives notice of its election to litigate within such thirty (30) day period as applicable, then both parties shall be deemed to have consented to arbitration and waived the right to litigate.
- 4.7.4 A demand for arbitration pursuant to Article 4.7.3 of the General Conditions shall be in writing and shall include a copy of the Claim presented to District's Representative pursuant to Article 4.4 of the General Conditions, a copy of the decision of District's Representative pursuant to Article 4.5 of the General Conditions, if any, a copy of the District's written statement identifying the portion of the Claim that remained in dispute following the informal conference pursuant to Article 4, and a summary of the remaining portions of the Claim in dispute. The demand shall state the amount in controversy, if any, and state the remedy sought. The demand shall

identify the District's Responsible Administrator as the representative of the responding party and the Office of the General Counsel as counsel for the responding party. The demand shall be filed with the AAA and shall not be deemed to have been made until all applicable fees have been paid to the AAA by the demanding party. Copies of the demand and attachments shall be sent to District's Responsible Administrator as the representative of the responding party and the District's Office of General Counsel as attorney for the responding party, at the addresses set forth in the Project Directory, at the time the demand for arbitration is initiated with the AAA.

- 4.7.5 Except as modified by this Article 4.7, arbitration shall be initiated and conducted in accordance with the Construction Industry Arbitration Rules of the AAA then in effect. The following additional modifications shall be made to the aforesaid AAA rules:
- .1 Civil discovery shall be permitted for the production of documents and taking of depositions. Other discovery may be permitted at the discretion of the arbitrator. All disputes regarding discovery shall be decided by the arbitrator.
 - .2 District's Representative and/or District's consultants, shall, if required by agreement with District, upon demand by District, join in and be bound by the Arbitration. District's Representative and District's consultants shall have the same rights in any arbitration proceeding as are afforded by the AAA rules to Design-Builder and District.
 - .3 Design-Builder's sureties shall be bound by any arbitration award and may join in any arbitration proceeding.
 - .4 Except as provided in Articles 4.7.5.2. and 4.7.5.3 above, no Subcontractor or other person shall have a right or obligation to join in, or be a party to, any arbitration proceeding provided for in this Article 4 either directly, by joinder, by consolidation or actions, by counterclaim or cross-claim, or otherwise without the express written consent of District, Design-Builder, and the joining party.
 - .5 If more than one demand for arbitration is made by a party with respect to Claims referred to District's Representative, all such Claims shall be consolidated into a single arbitration unless the parties otherwise agree in writing.
 - .6 If total Claims are less than Fifty Thousand Dollars (\$50,000), AAA expedited procedures as modified by this Article 4 shall apply. If total Claims are between Fifty Thousand Dollars (\$50,000) and One Hundred Thousand Dollars (\$100,000), they shall be heard by a single arbitrator who shall be an attorney. If total Claims are in excess of One Hundred Thousand Dollars (\$100,000) and are submitted to arbitration, either by agreement or by failure to elect litigation, the controversy shall be heard by a panel of three (3) arbitrators, one of whom shall be an attorney.
 - .7 No arbitrator shall be appointed and no discovery may be commenced prior to the date of Final Completion unless District and Design-Builder otherwise agree.
 - .8 The exclusive forum for determining arbitrability shall be the Superior Court of the State of California. The AAA shall not submit to any arbitrator any matter concerning the arbitrability of the dispute if the arbitrability is contested.
 - .9 If the expedited procedures of the AAA are applicable, the AAA shall submit simultaneously to each party an identical list of seven (7) proposed arbitrators drawn from the National Panel of Commercial Arbitrators, and each party may strike three (3) names from the list on a peremptory basis and return the list to the AAA within ten (10) days from the date of receipt.
- 4.7.6 Unless District and Design-Builder otherwise agree in writing, the arbitration decision shall be binding upon the parties, made under and in accordance with the laws of the State of California, supported by substantial evidence, and in writing. If the total of all Claims or cross-Claims submitted to arbitration is in excess of Fifty Thousand Dollars (\$50,000), the award shall contain the basis for the decision, findings of fact, and conclusions of law. Any arbitration award shall be subject to confirmation, vacation, or correction under the procedures and on the grounds specified in the California Code of Civil Procedure, including, without limitation, Section 1296. The expenses and fees of the arbitrators and the administrative fees of the AAA shall be divided among the parties equally. Each party shall pay its own counsel fees, witness fees, and other expenses incurred for its own benefit.
- 4.7.7 District may, but is not required to, assert as a counterclaim any matter arising out of the claims asserted by Design-Builder in the arbitration. District's failure to assert any such counterclaim in the arbitration shall be

without prejudice to the District's right to assert the counterclaim in litigation or other proceeding.

4.7.8 Any litigation shall be filed in the Superior Court of the State of California for the County of Alameda.

4.8 WAIVER

4.8.1 A waiver of, or failure by, District or District's Representative to enforce any requirement in this Article 4 in connection with any Claim shall not constitute a waiver of, and shall not preclude the District or District's Representative from enforcing, such requirements in connection with any other Claims.

4.8.2 The Design-Builder agrees and understands that no oral approval, either express or implied, of any Claim shall be binding upon District unless and until such approval is ratified by execution of a written Change Order.

ARTICLE 5. SUBCONTRACTORS

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

5.1.1 Pursuant to Education Code section 81704, all subcontracts that were not listed by the Design-Builder in accordance with Education Code Section 81703 shall be awarded by the Design-Builder in accordance with the design-build process set forth by District in the Design-Build package.

The Design-Builder shall do all of the following: (1) Provide public notice of the availability of work to be subcontracted; and (2) Provide a fixed date and time on which the subcontracted work will be awarded.

If the District elects to award a project pursuant to Education Code section 81704, retention proceeds withheld by the District from the Design-Builder shall not exceed five percent (5%) if a performance and payment bond, issued by an admitted surety insurer, is required in the solicitation of bids.

In a contract between the Design-Builder and a subcontractor, and in a contract between a subcontractor and any subcontractor thereunder, the percentage of the retention proceeds withheld shall not exceed the percentage specified in the Contract between the District and the Design-Builder. If the Design-Builder provides written notice to any subcontractor who is not a member of the Design-Builder, prior to or at the time the bid is requested, that a bond may be required and the subcontractor subsequently is unable or refuses to furnish a bond to the Design-Builder, then the Design-Builder may withhold retention proceeds in excess of the percentage specified in the Contract between the District and the Design-Builder from any payment made by the Design-Builder to the subcontractor.

In accordance with the provisions of applicable state law, Design-Builder may be permitted to substitute securities in lieu of the withholding from progress payments. Substitutions shall be made in accordance with Section 22300 of the Public Contract Code.

5.1.2 Design-Builder shall submit to the District's Representative, after selecting Subcontractors, an updated Expanded List of Subcontractors, along with their respective addresses, telephone numbers, e-mail addresses, and contractor's license numbers. The Expanded List of Subcontractors shall be provided with Design-Builder's proposal submittal. Failure to identify Subcontractors within the time period(s) above shall commit the Design-Builder to carrying out the Construction Work with its own forces.

5.1.3 The District has the right to request all documentation that supports the Design-Builder's selection of a Subcontractor. The District shall have the right of final approval as to the qualification(s) of a Subcontractor to perform its designated scope of work. Within the District's sole discretion, any Subcontractor may be deemed not qualified to perform work on the Project if District or District's Representative determines that the Subcontractor fails to meet the requirements of the Contract Documents, or for any other reason.

5.1.4 The Subcontractors listed by Design-Builder shall only be substituted in strict accordance with the Subletting and Subcontracting Fair Practices Act (Public Contract Code Section 4100 et seq.) and upon the written consent of the District. Only upon compliance with the Subletting and Subcontracting Fair Practices Act, and with the written consent of the District, shall a substitution be made.

5.1.5 Any increase in the cost of the Work resulting from the replacement or substitution of a Subcontractor pursuant to above Article 5.1.4 or as required by the District or District's Representative pursuant to above Article 5.1.3, shall be borne solely by Design-Builder. Design-Builder shall not be entitled to any increase in Contract Sum or an extension of Contract Time due to such replacement or substitution.

5.2 SUBCONTRACTUAL RELATIONS

- 5.2.1 Any part of the Work performed for Design-Builder by a first-tier Subcontractor shall be pursuant to a written subcontract. Each such subcontract shall require the Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to Design-Builder by the terms of the Contract Documents, to assume toward Design-Builder all the obligations and responsibilities which Design-Builder assumes towards District by the Contract Documents, and to perform such portion of the Work in accordance with the Contract Documents. Each such subcontract shall preserve and protect the rights of District under the Contract Documents, with respect to the Work to be performed by Subcontractor, so that subcontracting thereof shall not prejudice such rights. Design-Builder shall cause each such subcontract to expressly include the following requirements:
- .1 Subcontractor waives all rights that Subcontractor may have against District for damages caused by fire or other perils covered by builder's risk property insurance carried by Design-Builder or District, except for such rights Subcontractor may have to the proceeds of such insurance held by District under Article 11 of the General Conditions.
 - .2 District, and entities and agencies designated by District, shall have access to and the right to audit and the right to copy, at District's cost, all of Subcontractor's books, records, contracts, correspondence, instructions, drawings, receipts, vouchers, purchase orders, and memoranda relating to the Work. Subcontractor shall preserve all such records and other items for a period of at least three (3) years after Final Completion.
 - .3 Subcontractor recognizes the rights of District under Article 5.3 of the General Conditions, Contingent Assignment of Subcontracts, and agrees, upon notice from District that District has elected to accept said assignment and to retain Subcontractor pursuant to the terms of the subcontract, to complete the unperformed obligations under the subcontract and, if requested by District, to execute a written agreement confirming that Subcontractor is bound to District under the terms of the subcontract.
 - .4 Design-Builder is responsible for reviewing and coordinating the Work of and among his Subcontractors and Design Professionals. This review and coordination includes, but is not limited to, resolution of any inconsistencies, errors, or omissions.
- 5.2.2 Upon the request of District, Design-Builder shall promptly furnish to District a true, complete, and executed copy of any subcontract.
- 5.2.3 Nothing contained in the Contract Documents shall create any contractual relationship between any Subcontractor and District, except when, and only to the extent that, District elects to accept the assignment of the subcontract with such Subcontractor pursuant to Article 5.3 of the General Conditions, Contingent Assignment of Subcontracts.

5.3 CONTINGENT ASSIGNMENT OF SUBCONTRACTS

- 5.3.1 Design-Builder hereby assigns to District all its interest in first-tier subcontracts now or hereafter entered into by Design-Builder for performance of any part of the Work. The assignment shall be effective upon acceptance by District in writing and only as to those subcontracts which District designates in writing. District may accept said assignment at any time during the course of the Work and prior to Final Completion in the event of a suspension or termination of Design-Builder's rights under the Contract Documents. Such assignment is part of the consideration to District for entering into the Contract with Design-Builder and may not be withdrawn prior to Final Completion.

ARTICLE 6. CONSTRUCTION BY DISTRICT OR BY SEPARATE CONTRACTORS

6.1 DISTRICT'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS

- 6.1.1 District reserves the right to award separate contracts for, or to perform with its own forces, construction or operations related to the Work or other construction or operations at or affecting the Project site, including portions of the Work which have been deleted by Change Order. Design-Builder shall cooperate with District's forces and Separate Contractors.
- 6.1.2 District shall provide coordination of the activities of District's forces and of each Separate Contractor with the Work of Design-Builder. Design-Builder shall participate with District and Separate Contractors in joint review

of construction schedules and Project requirements when directed to do so. Design-Builder shall make necessary revisions to the Contract Schedule after such joint review.

6.2 MUTUAL RESPONSIBILITY

- 6.2.1 Design-Builder shall afford District and Separate Contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities. Design-Builder shall connect, schedule, and coordinate its construction and operations with the construction and operations of District and Separate Contractors as required by the Contract Documents.
- 6.2.2 If a portion of the Work is dependent upon the proper execution or results of other construction or operations by District or Separate Contractors, Design-Builder shall inspect such other design, construction, or operations before proceeding with that portion of the Work. Design-Builder shall promptly report to District's Representative apparent discrepancies or defects which render the other design, construction, or operations unsuitable to receive the Work. Unless otherwise directed by District's Representative, Design-Builder shall not proceed with the portion of the Work affected until apparent discrepancies or defects have been corrected. Failure of Design-Builder to so report within a reasonable time after discovering such discrepancies or defects shall constitute an acknowledgment that the other construction or operations by District or Separate Contractors is suitable to receive the Work, except as to defects not then reasonably discoverable.

6.3 DISTRICT'S RIGHT TO CLEAN UP

- 6.3.1 If a dispute arises between Design-Builder and Separate Contractors as to the responsibility under their respective contracts for maintaining the Project site and surrounding areas free from waste materials and rubbish, District may clean up and allocate the cost between those firms it deems to be responsible.

ARTICLE 7. CHANGES IN THE WORK

7.1 CHANGES

- 7.1.1 District may, from time to time, order or authorize additions, deletions, and other changes in the Work by Change Order or Construction Change Directive without invalidating the Contract and without notice to sureties. Absence of such notice shall not relieve such sureties of any of their obligations to District.
- 7.1.2 Design-Builder may request a Change Order under the procedures specified in Article 4.2 of the General Conditions.
- 7.1.3 A Construction Change Directive may be issued by District, does not require the agreement of Design-Builder, and shall be valid with or without the signature of Design-Builder.
- 7.1.4 Design-Builder shall proceed promptly with any changes in the Work, unless otherwise provided in the relevant Change Order or Construction Change Directive.

7.2 CHANGES DEFINITIONS

- 7.2.1 A Change Order is a Contract Document which has been signed by both District and Design-Builder, and states their agreement, as applicable, to any of the following:
- .1 A change in the Work.
 - .2 The amount of an adjustment of the Contract Sum.
 - .3 The amount of an adjustment of the Contract Time.
 - .4 A modification to any other Contract term or condition.
- 7.2.2 A "Unilateral Change Order" may also be issued by District, without Design-Builder's signature, where District determines that a change in the Work requires an adjustment of the Contract Sum or Contract Time as District believes to be properly due Design-Builder, even though no agreement has been reached between District and Design-Builder with regard to such change in the Work.
- 7.2.3 A "Construction Change Directive" is a Contract Document issued by the District that orders the Design-Builder to perform Work. A Construction Change Directive may, but need not, constitute a change in the

Work and may, but need not, entitle Design-Builder to an adjustment of the Contract Sum or Contract Time.

7.3 CHANGE ORDER PROCEDURES

7.3.1 Design-Builder shall provide a Change Order Request and Cost Proposal pursuant to Article 4.2 of the General Conditions and this Article 7.3. Adjustments of the Contract Sum resulting from Extra Work and deductive Work shall be determined using one of the methods described in this Article 7.3. Adjustments of the Contract Time shall be subject to the provisions in Article 8 of the General Conditions. Design-Builder's obligation to provide Cost Proposals shall be subject to the following:

- .1 The obligation of Design-Builder to provide Cost Proposals is not Extra Work, and shall not entitle the Design-Builder to an adjustment of the Contract Sum or Contract Time.
- .2 The failure of Design-Builder to timely provide a Cost Proposal pursuant to Article 4.2 of the General Conditions and this Article 7.3.1 is a material breach of the Contract. Design-Builder shall be responsible for any delay in implementing a change for which Design-Builder failed to timely provide a Cost Proposal consistent with the requirements of Article 4.2 of the General Conditions and this Article 7.3.1.

7.3.2 The term "Cost of Extra Work" as used in this Article 7.3 shall mean actual costs incurred or to be incurred by Design-Builder and each Subcontractor regardless of tier involved, to the extent not otherwise disallowed under Article 7.3.3, and shall be limited to the following (to the extent the Design-Builder demonstrates that the costs are both reasonable and actually incurred, if such costs have been incurred):

- .1 Straight-time wages or salaries for employees employed at the Project site, or at fabrication sites off the Project site, incurred as a result of performance of the Extra Work.
- .2 Fringe Benefits and Payroll Taxes for employees employed at the Project site, or at fabrication sites off the Project site, incurred as a result of performance of the Extra Work.
- .3 Overtime wages or salaries, specifically authorized in writing by District's Representative, for employees employed at the Project site, or at fabrication sites off the Project site, incurred as a result of performance of the Extra Work.
- .4 Fringe Benefits and Payroll Taxes for overtime Work specifically authorized in writing by District's Representative, for employees employed at the Project site, or at fabrication sites off the Project site, incurred as a result of performance of the Extra Work.
- .5 Costs of materials and consumable items which are furnished and incorporated into the Extra Work, as approved by District's Representative. Such costs shall be charged at the lowest price available to the Design-Builder but in no event shall such costs exceed competitive costs obtainable from other subcontractors, suppliers, manufacturers, and distributors in the area of the Project site. All discounts, rebates, and refunds and all returns from sale of surplus materials and consumable items shall accrue to District and Design-Builder shall make provisions so that they may be obtained.
- .6 Sales taxes on the costs of materials and consumable items which are incorporated into and used in the performance of the Extra Work pursuant to Article 7.3.2.5 above.
- .7 Rental charges for necessary machinery and equipment, whether owned or hired, as authorized in writing by District's Representative, exclusive of hand tools, used directly in the performance of the Extra Work. Such rental charges shall not exceed the current Equipment Rental Rates published by the California Department of Transportation for the area in which the work is performed. Such rental rates are found at <https://dot.ca.gov/programs/construction/equipment-rental-rates-and-labor-surcharge/>. Design-Builder shall attach a copy of said schedule to the Cost Proposal. The charges for any machinery and equipment shall cease when the use thereof is no longer necessary for the Extra Work.
- .8 Additional costs of royalties and permits due to the performance of the Extra Work.
- .9 Cost for revisions in the Design Development Documents or Construction Documents, when such revisions are inconsistent with approvals or instructions previously given by District. Revisions made necessary by adjustments in District's program or project budget such costs to be computed at the hourly rates specified in the Design Professional Rate Schedule in the Exhibits.
- .10 The cost for Insurance and Bonds shall not exceed two percent (2%) of items .1 through .9 above.

District and Design-Builder may agree upon rates to be charged for any of the items listed in this Article 7.3.2. Such agreed upon rates shall be subject to audit pursuant to Article 15.9 of the General Conditions. Design-Builder shall promptly refund to District any amounts (including associated mark-ups) in excess of the actual costs of such items.

7.3.3 Cost of Extra Work shall not include any of the following:

- .1 Supervision.
- .2 Superintendent(s).
- .3 Assistant Superintendent(s).
- .4 Project Engineer(s).
- .5 Project Manager(s).
- .6 Scheduler(s).
- .7 Estimator(s).
- .8 Small tools (Replacement value does not exceed **Three Hundred Dollars (\$300)**.)
- .9 Office expenses including staff, materials and supplies.
- .10 On-site or off-site trailer and storage rental and expenses.
- .11 Site fencing.
- .12 Utilities including gas, electric, sewer, water, telephone, facsimile, and copier equipment.
- .13 Data processing personnel and equipment.
- .14 Federal, state, or local business income and franchise taxes.
- .15 Overhead and Profit.
- .16 Costs and expenses of any kind or item not specifically and expressly included in Article 7.3.2 above.
- .17 Costs in Article 7.3.2.9 in excess of the hourly rates included in the Design Professional Rate Schedule.

7.3.4 The term "Design-Builder Fee" shall mean the full amount of compensation, both direct and indirect (including, without limitation, all overhead and profit), to be paid to Design-Builder for its own Work and the Work of all Subcontractors, for all costs and expenses not included in the Cost of Extra Work, whether or not such costs and expenses are specifically referred to in Article 7.3.3 above. The Design-Builder Fee shall not be compounded.

The Design-Builder Fee shall be computed as follows when the change impacts the Construction Work, or for the portion of the change that is related to Construction Work:

- .1 Fifteen percent (15%) of the cost of that portion of the Extra Work to be performed by the Design-Builder with its own forces.
- .2 Fifteen percent (15%) of the cost of that portion of the Work to be performed by a Subcontractor with its own forces, plus five percent (5%) for the Design-Builder. Total combined Design-Builder and Subcontractor fee shall not exceed twenty percent (20%).
- .3 Fifteen percent (15%) of the cost of that portion of the Work to be performed by a sub-subcontractor with its own forces, or any lower tier of Subcontractor, plus five percent (5%) for the Subcontractor, plus five percent (5%) for the Design-Builder. Total combined Design-Builder, Subcontractor and all sub-subcontractor fee shall not exceed twenty-five percent (25%).
- .4 Notwithstanding the foregoing, the Design-Builder Fee for additional Design Work under Article 7.3.2.9 of the General Conditions shall be five percent (5%) of the cost of such additional Design Work performed by a Design Professional. The cost of such additional Design Work shall be computed using the hourly rates in the Exhibits. The fee for the Design Professional Subcontractors shall be the overhead/profit rate specified in the Design Professional Rate Schedule.

7.3.5 Compensation for Extra Work shall be computed on the basis of one or more of the following:

- .1 Where the Work involved requires revisions to the Design Development Documents or the Construction Documents when such revisions are inconsistent with approvals or instructions previously given by District, including revisions made necessary by adjustments in District's program or project budget, by application of the hourly rates reflected in the Design Professional Rate Schedule.
- .2 Where Article 7.3.5.1 above is not applicable, a mutually agreed upon lump sum supported by a Cost Proposal pursuant to Article 7.3.1 of the General Conditions.

- .3 If District and Design-Builder cannot agree upon a lump sum, by Cost of Extra Work plus Design-Builder Fee applicable to such Extra Work.
- 7.3.6 As a condition to Design-Builder's right to an adjustment of the Contract Sum, pursuant to Article 7.3.5 above, Design-Builder must keep daily detailed and accurate records itemizing each element of cost and shall provide substantiating records and documentation, including time cards and invoices. Such records and documentation shall be submitted to and approved by District's Representative on a daily basis.
- 7.3.7 For Work to be deleted by Change Order, the reduction of the Contract Sum shall be computed on the basis of one or more of the following:
 - .1 Unit Prices stated in the Contract Documents.
 - .2 Unit Prices agreed upon by District and Design-Builder.
 - .3 Where Unit Prices are not applicable, a lump sum agreed upon by District and Design-Builder, based upon the actual costs that would have been incurred in performing the deleted portions of the Work, as calculated in accordance with Articles 7.3.2 and 7.3.3 above and supported by a Cost Proposal pursuant to Article 7.3.1 above.
- 7.3.8 If any one Change involves both Extra Work and Deleted Work in the same portion of the Work, a Design-Builder Fee shall not be allowed if the deductive cost exceeds the additive cost. If the additive cost exceeds the deductive cost, a Design-Builder Fee shall be allowed only on the difference between the two amounts.
- 7.3.9 The Contract Sum shall be adjusted for a delay if, and only if, Design-Builder demonstrates that all of the following four (4) conditions are met:
 - .1 Condition Number One: The delay results in an extension of the Contract Time pursuant to Article 8.4.1 of the General Conditions.
 - .2 Condition Number Two: The delay is caused solely by one or more of the following:
 - .1 An error or omission in the Contract Documents caused by District and not as a result of Design-Builder's failure to conform to Criteria Documents, performance standards, Construction Documents, or Contract Documents; or
 - .2 The District's decision to change the scope of the Work, where such decision is not the result of any default or misconduct of the Design-Builder; or
 - .3 The District's decision to suspend the Work, where such decision is not the result of any default or misconduct of the Design-Builder; or
 - .4 The failure of the District (including the District acting through its consultants, Design Professionals, Separate Contractors, or the District's Representative) to perform any Contract obligation where the failure to so perform is not the result of any default or misconduct of the Design-Builder.
 - .5 A materially differing site condition pursuant to Article 3.24 of the General Conditions.
 - .3 Condition Number Three: The delay is not concurrent with a delay that is caused by an event other than those listed in Article 7.3.9.2 above.
 - .4 Condition Number Four: The delay is not caused, in whole or in part, by an event which occurs during the performance of Design Development.
- 7.3.10 For each day of delay that meets all four (4) conditions prescribed in Article 7.3.9 above, the Contract Sum shall be adjusted by the daily rate included in the Agreement, Exhibit A, and specifically identified as the rate to be paid to Design-Builder for Compensable Delays as agreed upon for the applicable Phase. Pursuant to Article 9.7.5 of the General Conditions, said daily rate shall not apply to delays occurring after Substantial Completion.
- 7.3.11 Except as provided in Articles 7 and 8, Design-Builder shall have no claim for damage or compensation for any delay, interruption, hindrance, or disruption.
- 7.3.12 If for any reason one or more of the conditions prescribed in Article 7.3.9 above is held legally unenforceable,

the remaining conditions must be met as a condition to obtaining an adjustment of the Contract Time under Article 7.3.10 above.

7.4 CONSTRUCTION CHANGE DIRECTIVES

7.4.1 Construction Change Directives issued by the District's Representative shall be subject to the following:

- .1 A Construction Change Directive may state that it does or does not constitute a change in the Work.
- .2 If the Construction Change Directive states that it does not constitute a change in the Work and the Design-Builder asserts that the Construction Change Directive constitutes a change in the Work, in order to obtain an adjustment of the Contract Sum or Contract Time for the Work encompassed by the Construction Change Directive, Design-Builder must follow all procedures set forth in Article 4 of the General Conditions, starting with the requirement of submitting a timely Change Order Request within **seven (7)** days of Design-Builder's receipt of the Construction Change Directive. Failure to strictly follow those procedures is a bar to any Claim for an adjustment of the Contract Sum or Contract Time arising from performance of the Work described in the Construction Change Directive.
- .3 If the Construction Change Directive states that it does constitute a change in the Work, the Work described in the Construction Change Directive shall be considered Extra Work and the Design-Builder shall be entitled to an adjustment of the Contract Sum and Contract Time, calculated under and subject to Design-Builder's compliance with the procedures for verifying and substantiating costs and delays in Articles 7 and 8 of the General Conditions.
- .4 In addition, if the Construction Change Directive states that it does constitute a change in the Work, the Construction Change Directive may or may not contain District's estimate of adjustment of Contract Sum and/or Contract Time. If the Construction Change Directive contains an estimate of adjustment of Contract Sum or Contract Time, the Construction Change Directive is subject to the following:
 - .1 The Design-Builder shall not exceed the District's estimate of adjustment to Contract Sum or Contract Time without written authorization by District's Representative.
 - .2 If the Design-Builder asserts that the change in the Work encompassed by the Construction Change Directive may entitle Design-Builder to an adjustment of Contract Sum or Contract Time in excess of the District's estimate, in order not to be bound by District's estimate Design-Builder must follow all procedures set forth in Article 4 of the General Conditions, starting with the requirement of submitting a timely Change Order Request within **seven (7)** days of Design-Builder's receipt of the Construction Change Directive. Failure to strictly follow those procedures is a bar to any Claim for an adjustment of the Contract Sum or Contract Time, in excess of the District's estimate, arising from performance of the Work described in the Construction Change Directive.

7.4.2 Upon receipt of a Construction Change Directive, Design-Builder shall promptly proceed to perform the Work as ordered in the Construction Change Directive notwithstanding any disagreement by the Design-Builder concerning whether the Work is extra.

7.5 WAIVER

- 7.5.1 A waiver of, or failure by, District or District's Representative to enforce any requirement in this Article 7, including, without limitation, the requirements in Articles 7.3.6, 7.3.8, 7.3.9, 7.3.10, 7.3.11, or 7.3.12 in connection with any adjustment of the Contract Sum, shall not constitute a waiver of, and shall not preclude the District, or District's Representative, from enforcing such requirements in connection with any other adjustments of the Contract Sum.
- 7.5.2 The Design-Builder agrees and understands that no oral approval, either express or implied, of any adjustment of the Contract Sum by District or its agents shall be binding upon District unless and until such approval is ratified by execution of a written change order.

ARTICLE 8. CONTRACT TIME

8.1 COMMENCEMENT OF THE WORK

8.1.1 The date of commencement of the Work shall be set forth in the applicable Notice to Proceed. The date of

commencement of the Work shall not be postponed by the failure of Design-Builder, Subcontractors, or of persons or firms for whom Design-Builder is responsible, to act.

8.2 PROGRESS AND COMPLETION

8.2.1 By signing the Agreement:

- .1 Design-Builder represents to District that the Contract Time is reasonable for performing the Work and that Design-Builder is able to perform the Work within the Contract Time.
- .2 Design-Builder agrees that District is purchasing the right to have the Design-Builder present on the Project site for the full duration of the Contract Time applicable to the Construction Phase, even if Design-Builder could finish the Contract in less than the Contract Time.

8.2.2 Design-Builder shall not, except by written agreement and/or written instruction from District, commence operations on the Project site or elsewhere prior to the effective date of insurance, required by Article 11 of the General Conditions to be furnished by Design-Builder. The dates of commencement and Final Completion of the Work shall not be changed by the effective date of such insurance.

8.2.3 Design-Builder shall proceed expeditiously with adequate forces and shall achieve Final Completion of the Work within the Contract Time. If District's Representative determines and notifies Design-Builder that Design-Builder's progress is such that Design-Builder shall not achieve Final Completion of the Work within the Contract Time, Design-Builder shall immediately, and at no additional cost to District, take all measures necessary, including working such overtime, additional shifts, Sundays, or holidays as may be required to ensure that Design-Builder shall achieve Final completion of the Work within the Contract Time. Upon receipt of such notice from District's representative, Design-Builder shall immediately notify District's Representative of all measures to be taken to ensure Final Completion of the Work within the Contract Time. Design-Builder shall reimburse District for any extra costs or expenses (including the reasonable value of any services provided by District's employees) incurred by District as the result of such measures.

8.3 DELAY

8.3.1 Except and only to the extent provided otherwise in Articles 7 and 8 of the General Conditions, by signing the Agreement, Design-Builder agrees:

- .1 To bear the risk of delays to the Work; and
- .2 That Design-Builder's Proposal for the Contract was made with full knowledge of this risk.

In agreeing to bear the risk of delays to the Work, Design-Builder understands that, except and only to the extent provided otherwise in Articles 7 and 8 of the General Conditions, the occurrence of events that delay the Work shall not excuse Design-Builder from its obligation to achieve Final Completion of the Work within the Contract Time, and shall not entitle the Design-Builder to an adjustment of the Contract Sum.

8.4 ADJUSTMENT OF THE CONTRACT TIME FOR DELAY

8.4.1 Subject to Article 8.4.2 below, the Contract Time shall be extended for each day of delay for which Design-Builder demonstrates that all of the following three (3) conditions have been met; a time extension shall not be granted for any day of delay for which Design-Builder fails to demonstrate compliance with the three (3) conditions:

- .1 Condition Number One: The delay is critical. A delay is critical if and only to the extent it delays a work activity that cannot be delayed without delaying Final Completion of the Work to a date that is beyond the Contract Time.
- .2 Condition Number Two: Within **seven (7)** days of the date the Design-Builder discovers or reasonably should discover an act, error, omission, or unforeseen condition or event causing the delay is likely to have an impact on the critical path of the Project (even if the Design-Builder has not yet been delayed when the Design-Builder discovers or reasonably should discover the critical path impact of the act, error, omission, or unforeseen condition or event giving rise to the delay), the Design-Builder submits a timely and complete Change Order Request that meets the requirements of Article 4.2 of the General Conditions.

Rain Days: In cases of excessive rain days, as set by the Special Conditions, Design Builder will be entitled to a schedule extension without compensation.

.3 Condition Number Three: The delay is caused by an event or circumstance listed in Article 4. 2, above.:

.8.5 COMPENSATION FOR DELAY

- 8.5.1 To the maximum extent allowed by law, any adjustment of the Contract Sum as the result of delays shall be limited to the amounts specified in Article 7 of the General Conditions. Such adjustment shall, to the maximum extent allowed by law, constitute payment in full for all delay-related costs (including costs for disruption, interruption and hindrance, general conditions, on and off-site overhead and profit) of Design-Builder, its Suppliers and Subcontractors of all tiers and all persons and entities working under or claiming through Design-Builder in connection with the Project.
- 8.5.2 By signing the Agreement, the parties agree that the District is buying the right to do any or all of the following, which are reasonable and within the contemplation of the parties:
- .1 To order changes in the Work, regardless of the extent and number of changes, including without limitation:
 - .1 Changes to correct errors or omissions caused by District, if any, in the Contract Documents.
 - .2 Changes resulting from the District's decision to change the scope of the Work subsequent to execution of the Contract.
 - .3 Changes due to unforeseen conditions.
 - .2 To suspend the Work or any part thereof.
 - .3 To delay the Work, including without limitation, delays resulting from the failure of the District or the District's Representative to timely perform any Contract obligation and delays for District's convenience.

8.6 WAIVER

- 8.6.1 A waiver of, or failure by, District or District's Representative to enforce any requirement in this Article 8, including without limitation the requirements in Article 8.4 above, in connection with any or all past delays shall not constitute a waiver of, and shall not preclude the District or District's Representative from enforcing, such requirements in connection with any present or future delays.
- 8.6.2 Design-Builder agrees and understands that no oral approval, either express or implied, of any time extension by District or its agents shall be binding upon District unless and until such approval is ratified by execution of a written Change Order.

ARTICLE 9. PAYMENTS AND COMPLETION

9.1 COST BREAKDOWN AND PERIODIC ESTIMATES

- 9.1.1 Within **ten (10)** days after receipt of the Notice to Proceed, Design-Builder shall submit to District's Representative a Cost Breakdown of the Contract Sum. The Cost Breakdown shall itemize as separate line items the cost of each work activity and all associated costs, including, but not limited to, warranties, as-built documents, overhead expenses, and the total allowance for profit. Insurance and bonds shall each be listed as separate line items. The total of all line items shall equal the Contract Sum. The Cost Breakdown, when approved by the District's Representative, shall become the basis for determining the cost of work performed for Design-Builder's Applications for Payment.

The District shall have the right to adjust any estimate of quantity and to subsequently correct any error made in any estimate for payment.

Design-Builder shall certify, under penalty of perjury, that all cost breakdowns and periodic estimates accurately reflect the Work on the Project.

9.2 PROGRESS PAYMENT

9.2.1 District agrees to pay monthly to Design-Builder, subject to Article 9.4 of the General Conditions, an amount equal to ninety-five percent (95%) of the sum of the following:

- .1 Cost of the Construction Work in permanent place as of the date of the Design-Builder's Application for Payment.
- .2 Cost of materials not yet incorporated in the Construction Work, subject to Article 9.3.5 of the General Conditions.
- .3 Less amounts previously paid.

Five percent (5%) of the amount shall be retained by the District until Final Completion and shall be released pursuant to Article 9.8. Under this Article 9.2.1, District may, but is not required to, pay Design-Builder more frequently than monthly.

9.2.2 After Substantial Completion and subject to Article 9.4.3 of the General Conditions, District shall make any of the remaining progress payments in full.

9.3 APPLICATION FOR PAYMENT

9.3.1 On or before the tenth (10th) day of the month or such other date as is established by the Contract Documents, Design-Builder shall submit to District's Representative an itemized Application for Payment, for the cost of the Work in permanent place, as approved by District's Representative, which has been completed in accordance with the Contract Documents, less amounts previously paid. The Application for Payment shall be prepared as follows:

- .1 Use the form contained in the Exhibits;
- .2 Itemize in accordance with the Cost Breakdown as applicable;
- .3 Include such data substantiating Design-Builder's right to payment as District's Representative may reasonably require, such as invoices, certified payrolls, daily time and material records, and, if securities are deposited in lieu of retention pursuant to Article 9.5 of the General Conditions, a certification of the market value of all such securities as of a date not earlier than **five (5)** days prior to the date of the Application for Payment, as applicable; and
- .4 Itemize retention.

9.3.2 Applications for Payment shall not include requests for payment on account of (1) changes which have not been authorized by Change Orders, or (2) amounts Design-Builder does not intend to pay a Subcontractor because of a dispute or other reason.

9.3.3 If required by District, an Application for Payment shall be accompanied by (1) a summary showing payments that shall be made to Subcontractors covered by such Application and conditional releases upon progress payment or final payment, and (2) unconditional waivers and releases of claims and stop payment notices from each Subcontractor listed in the preceding Application for Payment covering sums disbursed pursuant to that preceding Application for Payment.

9.3.4 Design-Builder warrants that, upon submittal of an Application for Payment, all Work, for which Certificates for Payment have been previously issued and payment has been received from District, shall be free and clear of all claims, stop payment notices, security interests, and encumbrances in favor of Design-Builder, Subcontractors, or other persons or firms entitled to make claims by reason of having provided labor, materials, or equipment relating to the Work.

9.3.5 At the sole discretion of District, District's Representative may approve for inclusion in the Application for Payment the cost of materials not yet incorporated in the Construction Work but already delivered and suitably stored either at the Project site or at some other appropriate location acceptable to District's Representative. In such case, Design-Builder shall furnish evidence satisfactory to District's Representative (1) of the cost of such materials; and (2) that such materials are under the exclusive control of Design-Builder. Only materials to be incorporated in the Work shall be considered for payment. Any payment shall not be construed as acceptance of such materials nor relieve Design-Builder from sole responsibility for the care and protection of such materials; nor relieve Design-Builder from risk of loss to such materials from any cause whatsoever; nor relieve Design-Builder from its obligation to complete the Work in accordance with the Contract; nor act as a waiver of the right of District to require fulfillment of all terms of the Contract. Nothing contained within

this Article 9.3.5 shall be deemed to obligate District to agree to payment for any non-incorporated materials or any part thereof, payment being in the sole and absolute discretion of District.

9.4 CERTIFICATE FOR PAYMENT

- 9.4.1 If Design-Builder has submitted an Application for Payment in accordance with Article 9.3 above, District's Representative shall, not later than **five (5)** working days after the date of receipt of the Application for Payment, issue to District, with a copy to Design-Builder, a Certificate for Payment for such amount as District's Representative determines to be properly due.
- 9.4.2 If any such Application for Payment is determined not to be in accordance with Article 9.3 above, District shall inform Design-Builder as soon as practicable, but not later than **five (5)** working days after receipt. Thereafter, Design-Builder shall have **three (3)** days to revise and resubmit such Application for Payment; otherwise District's Representative may issue a Certificate for Payment in the amount that District's Representative determines to be properly due without regard to such Application for Payment.
- 9.4.3 Approval of all or any part of an Application for Payment may be withheld, a Certificate for Payment may be withheld, and all or part of a previous Certificate for Payment may be nullified and that amount withheld from a current Certificate for Payment on account of any of the following:
- .1 Defective Work not remedied.
 - .2 Third-party claims against Design-Builder or District arising from the acts or omissions of Design-Builder or Subcontractors.
 - .3 Stop payment notices.
 - .4 Failure of Design-Builder to make timely payments due Subcontractors.
 - .5 A reasonable doubt that the Work can be completed for the balance of the Contract Sum then unpaid.
 - .6 Damage to District or Separate Contractor for which Design-Builder is responsible.
 - .7 Reasonable evidence that the Work shall not be completed within the Contract Time, and that the unpaid balance of the Contract Sum would not be adequate to cover District's damages for the anticipated delay.
 - .8 Failure of Design-Builder to maintain and update as-built documents.
 - .9 Failure of Design-Builder to submit schedules or their updates as required by the Contract Documents.
 - .10 Failure to provide conditional or unconditional releases from any Subcontractor or supplier, if such waiver(s) have been requested by District's Representative.
 - .11 Performance of Work by Design-Builder without properly processed Shop Drawings.
 - .12 Liquidated damages assessed in accordance with the Agreement.
 - .13 Failure to provide updated Reports of Subcontractor Information and Self-Certifications, as applicable.
 - .14 Failure to provide a Final Distribution of Contract Dollars with final Application for Payment.
 - .15 Any other failure of Design-Builder to perform its obligations under the Contract Documents.
- 9.4.4 Subject to the withholding provisions of Article 9.4.3 of the General Conditions, District shall pay Design-Builder the amount set forth in the Certificate for Payment no later than **thirty (30)** days after the issuance of the Certificate for Payment.
- 9.4.5 Neither District nor District's Representative shall have an obligation to pay or to see to the payment of money to a Subcontractor, except as may otherwise be required by law.
- 9.4.6 Neither a Certificate for Payment nor a progress payment made by District shall constitute acceptance of Defective Work.

9.5 DEPOSIT OF SECURITIES IN LIEU OF RETENTION AND DEPOSIT OF RETENTION INTO ESCROW

- 9.5.1 At the request and expense of Design-Builder, a substitution of securities may be made for any monies retained by District under Article 9.2 to ensure performance under the Contract Documents. Securities equivalent in value to the retention amount required by the Contract Documents for each Certificate for Payment shall be deposited by Design-Builder with a state or federally chartered bank in the State of California ("Escrow Agent"), which shall hold such securities pursuant to the escrow agreement referred to in Article 9.5.3 until retention is due in accordance with Article 9.8. Securities shall be valued as often as conditions of the securities market warrant, but in no case less than once per month. Design-Builder shall deposit additional securities so that the current market value of the total of all deposited securities shall be at least equal to the total required amount of retention.
- 9.5.2 Alternatively to Article 9.5.1 above, and at the request and expense of Design-Builder, District shall deposit retention directly with Escrow Agent. Design-Builder may direct the investment of such deposited retention into interest bearing accounts or securities, and such deposits or securities shall be held by Escrow Agent upon the same terms provided for securities deposited by Design-Builder. Design-Builder and its surety shall bear the risk of failure of the Escrow Agent selected.
- 9.5.3 A prerequisite to the substitution of securities in lieu of retention or the deposit of retention into escrow shall be the execution by Design-Builder, District, and Escrow Agent of an Escrow Agreement for Deposit of Securities in Lieu of Retention and Deposit of Retention in the form contained in the Exhibits. The Design-Builder shall submit the Selection of Retention Options and the Escrow Agreement for Deposit of Securities in Lieu of Retention and Deposit of Retention not later than the date when fifty percent (50%) of the Work has been completed. The terms of such Escrow Agreement are incorporated into the requirements of this Article 9.5.
- 9.5.4 The form for Deposit of Securities in Lieu of Retention and Deposit of Retention may be requested from the District.

9.6 BENEFICIAL OCCUPANCY

- 9.6.1 District reserves the right, at its option and convenience, to occupy or otherwise make use of any part of the Construction Work at any time prior to Substantial Completion or Final Completion upon [ten (10)] days' notice to Design-Builder. Such occupancy or use is herein referred to as "Beneficial Occupancy." Beneficial Occupancy shall be subject to the following conditions:
- .1 District's Representative shall make an inspection of the portion of the Project to be beneficially occupied and prepare a list of items to be completed or corrected prior to Final Completion. Prior to Beneficial Occupancy, District shall issue a Certificate of Beneficial Occupancy on District's form.
 - .2 Beneficial Occupancy by District shall not be construed by Design-Builder as an acceptance by District of that portion of the Construction Work which is to be occupied.
 - .3 Beneficial Occupancy by District shall not constitute a waiver of existing claims of District or Design-Builder against each other.
 - .4 Design-Builder shall provide, in the areas beneficially occupied and on a twenty-four (24) hour and seven (7) day per week basis as required, utility services, heating, and cooling for systems which are in operable condition at the time of Beneficial Occupancy. All responsibility for the operation and maintenance of equipment shall remain with Design-Builder while the equipment is so operated. Design-Builder shall submit to District an itemized list of each piece of equipment so operated with the date operation commences. The Guarantee to Repair Periods, as defined in Article 12.2, shall commence upon the occupancy date stated in the Certificate of Beneficial Occupancy, except that the Guarantee to Repair Periods for that part of equipment or systems that serve portions of the Work for which District has not taken Beneficial Occupancy or issued a Certificate of Substantial Completion shall not commence until the District has taken Beneficial Occupancy for that portion of the Work or has issued a Certificate of Substantial Completion with respect to the entire Project.
 - .5 District shall pay all normal operating and maintenance costs resulting from its use of equipment in areas beneficially occupied.
 - .6 District shall pay all utility costs that arise out of the Beneficial Occupancy.
 - .7 Design-Builder shall not be responsible for providing security in areas beneficially occupied.

- .8 District shall use its best efforts to prevent its Beneficial Occupancy from interfering with the conduct of Design-Builder's remaining Work.
- .9 Design-Builder shall not be required to repair damage caused by District in its Beneficial Occupancy.
- .10 Except as provided in this Article 9.6, there shall be no added cost to District due to Beneficial Occupancy.
- .11 Design-Builder shall continue to maintain all insurance required by the Contract in full force and effect.

9.7 SUBSTANTIAL COMPLETION

- 9.7.1 "Substantial Completion" means the stage in the progress of the Construction Work, as determined by District's Representative, when the Construction Work is complete and in accordance with the Contract Documents except only for completion of minor items that do not impair District's ability to occupy and fully utilize the Construction Work for its intended purpose and a Certificate of Occupancy has been issued by the District.
- 9.7.2 When Design-Builder gives notice to District's Representative that the Construction Work is substantially complete, unless District's Representative determines that the Construction Work is not sufficiently complete to warrant an inspection to determine Substantial Completion, District's Representative shall inspect the Construction Work. If the District's Representative determines that the Work is not substantially completed, the District's Representative shall prepare and give to Design-Builder a comprehensive list of items to be completed or corrected before establishing Substantial Completion. Design-Builder shall proceed promptly to complete and correct items on the list. Failure to include an item on such list does not alter the responsibility of Design-Builder to complete all Construction Work in accordance with the Contract Documents. Upon notification that the items on the list are completed or corrected, as applicable, the District's Representative shall make an inspection to determine whether the Construction Work is substantially complete. Costs for additional inspection by District's Representative shall be deducted from any monies due and payable to Design-Builder.
- 9.7.3 When District's Representative determines that the Construction Work is substantially complete, District's Representative shall arrange for inspection by District's Building Official and other officials, as appropriate, for the purpose of issuing a Certificate of Occupancy. After a Certificate of Occupancy has been issued by the District, the District's Representative shall prepare a Certificate of Substantial Completion on District's form, which, when signed by District, shall establish the date of Substantial Completion and the responsibilities of District and Design-Builder for security, maintenance, utilities, insurance, and damage to the Construction Work. The District's Representative shall prepare and furnish to the Design-Builder a comprehensive "punch list" of items to be completed or corrected prior to Final Completion.
- 9.7.4 Unless otherwise provided in the Certificate of Substantial Completion, the Guarantee to Repair Period for the Work covered by the Certificate of Substantial Completion, shall commence on the date of Substantial Completion of the Construction Work except that Substantial Completion shall not commence the Guarantee to Repair Period for any equipment or systems that:
 - .1 Are not operational (equipment or systems shall not be considered operational if they cannot be used for the intended service); or
 - .2 Are not accepted by the District.The Guarantee to Repair Period for equipment or systems which become fully operational and accepted subsequent to Substantial Completion shall begin on the date of their written acceptance by District.
- 9.7.5 The daily rate included in the Agreement and specifically identified as the rate to be paid to Design-Builder for Compensable Delays shall not apply to any delays occurring after the Work is substantially completed.

9.8 FINAL COMPLETION, FINAL PAYMENT, AND RELEASE OF RETENTION

- 9.8.1 Upon receipt of notice from Design-Builder that the Work is ready for final inspection, District's Representative shall make such inspection. Final Completion shall be when District's Representative determines that the Work is fully completed and in accordance with the Contract Documents, including without limitation, satisfaction of all "punch list" items, and determines that a Certificate of Occupancy has been issued by the District. After receipt of the final Application for Payment, if District's Representative determines that Final Completion has occurred, District's Representative shall issue the final Certificate for Payment.

9.8.2 Final payment and retention shall be released to Design-Builder, as set forth in Article 9.8.3, after:

- .1 Design-Builder submits the final Application for Payment and all submittals required in accordance with Article 9.3.
- .2 Design-Builder submits all guarantees and warranties procured by Design-Builder from Subcontractors, all operating manuals for equipment installed in the Project, as-built documents, and all other submittals required by the Contract Documents;
- .3 Design-Builder submits the Final Distribution of Contract Dollars in the form contained in the Exhibits; and
- .4 District's Representative issues the final Certificate for Payment.

At its sole discretion, after Final Completion, District may waive the requirement that Design-Builder submit a final Application for Payment before making final payment and/or release of retention to Design-Builder.

9.8.3 Retention shall be released to Design-Builder sixty (60) days after the filing of the Notice of Completion.

9.8.4 Acceptance of final payment by Design-Builder shall constitute a waiver of all claims, except claims for retention and claims previously made in writing and identified by Design-Builder as unsettled at the time of the final Application for Payment.

9.8.5 In the event of a dispute, District may withhold up to 150% of the disputed amount from the final payment and retention funds.

ARTICLE 10. PROTECTION OF PERSONS AND PROPERTY

10.1 SAFETY PRECAUTIONS AND PROGRAMS

10.1.1 Design-Builder shall be solely responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract.

10.1.2 Work may be ongoing at the time school is in session. The use of alcohol, drugs, or tobacco shall not be permitted on District property. Access to areas outside of the construction area is prohibited, unless the Design-Builder is accompanied by the District Representative. Design-Builder shall comply with District's fingerprinting requirements. All representatives of the Design-Builder shall present themselves with appropriate language, actions and work wear while on the construction site.

10.2 SAFETY OF PERSONS AND PROPERTY

10.2.1 Design-Builder shall take adequate precautions for safety of, and shall provide adequate protection to prevent damage, injury, or loss to, the following:

- .1 Employees in the Construction Work and other persons who may be affected thereby,
- .2 The Construction Work in place and materials and equipment to be incorporated therein, whether in storage on or off the Project site, under care, custody, or control of Design-Builder or Subcontractors; and
- .3 Other property at the Project site and adjoining property.

10.2.2 Design-Builder shall erect and maintain, as required by existing conditions and performance of the Work, adequate safeguards for safety and protection, including providing adequate lighting and ventilation, posting danger signs and other warnings against hazards, promulgating safety regulations, and notifying owners and users of adjacent sites and utilities.

10.2.3 When use or storage of explosives, other hazardous materials, equipment, or unusual methods are necessary for execution of the Construction Work, Design-Builder shall exercise the utmost care and carry on such activities only under the supervision of properly qualified personnel.

- 10.2.4 Design-Builder shall designate a responsible member of Design-Builder's organization at the Project site whose duty shall be the prevention of accidents. That person shall be the Superintendent, unless otherwise designated by Design-Builder in writing to District and District's Representative.
- 10.2.5 Design-Builder shall not load, or permit any part of the Construction Work or the Project site to be loaded, so as to endanger the safety of persons or property.
- 10.2.6 Design-Builder shall comply with all applicable laws, ordinances, rules, or regulations pertaining to safety at the Site. Design-Builder shall implement safety measures such as fencing, barricades, signs, lights and other precautions to prevent injury or death to persons or damage to property. Design-Builder is responsible for securing the Site and Work in place or in progress (including materials/equipment/tools situated at the Site) to prevent theft, loss or damage. The District and employees, officers, agents or representatives of the District are not liable to the Design-Builder, subcontractors or their respective personnel for the loss, theft, damage or destruction of materials, equipment, tools and other personal property items, whether or not such personal property is used to complete the Work or is incorporated into the Work. The risk of such loss, theft, damage or destruction is solely that of the Design-Builder or subcontractors. **Design-Builder and all contractors, including all subcontractors, laborers and any individual performing work on any District project, are required to wear hard hats and safety vests at all times while on any District site or campus without exception.**
- 10.2.7 Design-Builder shall confine operations at the Site to areas permitted by all applicable laws and permits relating to the Work, subject to any restrictions or limitations set forth in the Contract Documents. The Design-Builder shall not unreasonably encumber the Site or adjoining areas with materials or equipment. The Design-Builder is solely responsible for providing security at the Site and coordinating access to the Site, with all such costs included in the Contract price. Design-Builder shall provide DSA, the District, the inspector, the Architect of Record, and the Design Professional(s) of Record with access to the Work, whether in place, preparation and progress and wherever located. The District shall at all times have access to the Site. Design-Builder shall provide the District with keys/codes/card keys to all Site perimeter locks.

10.3 EMERGENCIES

- 10.3.1 In an emergency affecting the safety of persons or property, Design-Builder shall act to prevent or minimize damage, injury, or loss. Design-Builder shall promptly notify District's Representative, which notice may be oral followed by written confirmation, of the occurrence of such an emergency and Design-Builder's action.

ARTICLE 11. INSURANCE AND BONDS

11.1 DESIGN-BUILDER'S INSURANCE

- 11.1.1 Design-Builder shall, at its expense, purchase and maintain in full force and effect such insurance as will protect itself and District from claims, such as for bodily injury, wrongful death, and property damage, which may arise out of or result from the Work required by the Contract Documents, whether such Work is done by Design-Builder, by any Subcontractor, by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable. The amounts of such insurance and any additional insurance requirements are specified in the Special Conditions. See Article 3.27 of the General Conditions regarding the scope and extent of Design-Builder's liability for repair of damaged Work.

- 11.1.2 The following policies and coverage shall be furnished by Design-Builder:

.1 COMMERCIAL GENERAL LIABILITY AND PROPERTY DAMAGE INSURANCE

- a. Design-Builder shall procure and maintain during the life of this Contract and for such other period as may be required herein, at its sole expense, Commercial General Liability insurance coverage, including but not limited to, premises liability, contractual liability, products/completed operations if applicable, personal and advertising injury – which may arise from or out of Design-Builder's operations, use, and management of the Project site, or the performance of its obligations hereunder. Policy limits shall be in the amount of at least **One Million Dollars (\$1,000,000.00)** per occurrence. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit.
- b. Such policy shall comply with all the requirements of this Article. The limits set forth herein shall apply separately to each insured against whom claims are made or suits are brought, except with

Commented [A1]: The District must review this Article with its risk manager and/or broker.

respect to the limits of liability. Further, the limits set forth herein shall not be construed to relieve the Design-Builder from liability in excess of such coverage, nor shall it limit Design-Builder's indemnification obligations to the District, and shall not preclude the District from taking such other actions available to the District under other provisions of the Contract Documents or law.

- c. Design-Builder shall make certain that any and all subcontractors hired by Design-Builder are insured in accordance with this Contract. If any subcontractor's coverage does not comply with the foregoing provisions, Design-Builder shall indemnify and hold the District and the Indemnified Parties harmless from any damage, loss, cost, or expense, including attorneys' fees, incurred by the District and the Indemnified Parties as a result thereof.
 - d. All general liability policies provided pursuant to the provisions of this Article shall comply with the provisions of the Contract Documents.
 - e. All general liability policies shall be written to apply to all bodily injury, including death, property damage, personal injury, owned and non-owned equipment, blanket contractual liability, completed operations liability, explosion, collapse, under-ground excavation, removal of lateral support, and other covered loss, however occasioned, occurring during the policy term, and shall specifically insure the performance by Design-Builder of that part of the indemnification contained in these General Conditions, relating to liability for injury to or death of persons and damage to property. If the coverage contains one or more aggregate limits, a minimum of fifty percent (50%) of any such aggregate limit must remain available at all times; if over fifty percent (50%) of any aggregate limit has been paid or reserved, the District may require additional coverage to be purchased by Design-Builder to restore the required limits. Design-Builder may combine primary, umbrella, and as broad as possible excess liability coverage to achieve the total limits indicated above. Any umbrella or excess liability policy shall include the additional insured endorsement described in the Contract Documents.
2. **AUTOMOBILE LIABILITY INSURANCE**
Design-Builder shall take out and maintain at all times during the term of this Contract Automobile Liability Insurance in the amount of at least **One Million Dollars (\$1,000,000.00)** per occurrence. Such insurance shall provide coverage for bodily injury and property damage including coverage for any auto, in a form and with insurance companies acceptable to the District.
3. **WORKERS' COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE**
The Design-Builder shall provide, during the life of this Contract, Workers' Compensation Insurance for all of the employees engaged in Work under this Contract, on or at the Project site, and, in case of any sublet Work, the Design-Builder shall require the subcontractor similarly to provide Workers' Compensation Insurance for all the latter's employees as prescribed by State law. Any class of employee or employees not covered by a subcontractor's insurance shall be covered by the Design-Builder's insurance. In case any class of employees engaged in work under this Contract, on or at the Project site, is not protected under the Workers' Compensation Statutes, the Design-Builder shall provide or shall cause a subcontractor to provide, adequate insurance coverage for the protection of such employees not otherwise protected. The Design-Builder is required to secure payment of compensation to his employees in accordance with the provisions of Section 3700 of the Labor Code. The Design-Builder shall file with the District certificates of his insurance protecting workers. Company or companies providing insurance coverage shall be acceptable to the District, if in the form and coverage as set forth in the Contract Documents. The policy shall contain a Waiver of Subrogation in favor of the District.
- Design-Builder shall provide, during the life of this Contract, Employer's Liability Insurance, including Occupational Disease, in the amount of at least **One Million Dollars (\$1,000,000.00)** per person per accident. Design-Builder shall provide District with a certificate of Employer's Liability Insurance. Such insurance shall comply with the provisions of the Contract Documents. The policy shall be endorsed, if applicable, to provide a Borrowed Servant/Alternate Employer Endorsement and contain a Waiver of Subrogation in favor of the District.
4. **FORM AND PROOF OF CARRIAGE OF INSURANCE**
- a. Any insurance carrier providing insurance coverage required by the Contract Documents shall be admitted to and authorized to do business in the State of California unless waived, in writing, by the District Risk Manager. Carrier(s) shall have an A.M. Best rating of not less than an A:VIII. Insurance deductibles or self-insured retentions must be declared by the Design-Builder, and such deductibles and retentions shall have the prior written consent from the District. At the election of the District, the Design-Builder shall either 1) reduce or eliminate such deductibles or self-insured retentions; or

- 2) procure a bond which guarantees payment of losses and related investigations, claims administration, and defense costs and expenses.
- b. Design-Builder shall cause its insurance carrier(s) to furnish the District with either 1) a properly executed original Certificate(s) of Insurance and certified original copies of Endorsements effecting coverage as required herein; or 2) if requested to do so in writing by the District Risk Manager, provide original Certified copies of policies including all Endorsements and all attachments thereto, showing such insurance is in full force and effect. Design-Builder shall ensure that the District, members of District's Board of Trustees, and officers, officials, employees, agents, representatives, and volunteers of the District are named as Additional Insureds and shall provide a Waiver of Subrogation in favor of those parties. Further, said Certificate(s) and policies of insurance shall contain the covenant of the insurance carrier(s) that shall provide no less than thirty (30) days' written notice be given to the District prior to any material modification or cancellation of such insurance. In the event of a material modification or cancellation of coverage, the District may terminate or Stop Work pursuant to the Contract Documents, unless the District receives, prior to such effective date, another properly executed original Certificate of Insurance and original copies of endorsements or certified original policies, including all endorsements and attachments thereto evidencing coverages set forth herein and the insurance required herein is in full force and effect. Design-Builder shall not take possession, or use the Project site, or commence operations under this Agreement, until the District has been furnished original Certificate(s) of Insurance and certified original copies of Endorsements or policies of insurance including all Endorsements and any and all other attachments as required in this Article. The original Endorsements for each policy and the Certificate of Insurance shall be signed by an individual authorized by the insurance carrier to do so on its behalf.
- c. It is understood and agreed to by the parties hereto and the insurance company(s), that the Certificate(s) of Insurance and policies shall so covenant and shall be construed as primary, and the District's insurance and/or deductibles and/or self-insured retentions or self-insured programs shall not be construed as contributory.
- d. The District reserves the right to adjust the monetary limits of insurance coverages during the term of this Contract, including any extension thereof, if, in the District's reasonable judgment, the amount or type of insurance carried by the Design-Builder becomes inadequate.
- e. Design-Builder shall pass down the insurance obligations contained herein to all tiers of sub-contractors working under this Contract.

11.2 BUILDER'S RISK ("ALL RISK")

- 11.2.1 It is the Design-Builder's responsibility to maintain or cause to be maintained Builder's Risk ("All Risk") extended coverage insurance on all work, material, equipment, appliances, tools, and structures that are a part of the Contract and subject to loss or damage by fire, and vandalism and malicious mischief, in an amount to cover one hundred percent (100%) of the replacement cost. The District accepts no responsibility until the Work is formally accepted by the Board of Trustees. The Design-Builder is required to file with the District a certificate evidencing fire insurance coverage.
- 11.2.2 Provide insurance coverage on completed value form, all-risk or special causes of loss coverage.
- .1 Insurance policies shall be so conditioned as to cover the performance of any extra work performed under the Contract.
 - .2 Coverage shall include all materials stored on site and in transit.
 - .3 Coverage shall include Design-Builder's tools and equipment.
 - .4 Insurance shall include boiler, machinery and material hoist coverage.
- 11.2.3 Such insurance shall comply with the provisions of the Contract Documents.

11.3 PERFORMANCE BOND AND PAYMENT BOND

- 11.3.1 Pursuant to Education Code section 81704, Design-Builder shall possess or obtain sufficient bonding to cover the contract amount for non-design services, and errors and omission insurance coverage sufficient to cover all design and architectural services provided in the Contract. The statute does not permit a general or engineering contractor from being designated the lead entity on a design-build entity for the purposes of

purchasing necessary bonding to cover the activities of the design-build entity.

- 11.3.2 Design-Builder shall furnish bonds covering the faithful performance of the Contract ("Performance Bond") and payment of obligations arising thereunder ("Payment Bond") on the forms contained in the Exhibits.
- 11.3.3 The Payment Bond and Performance Bond shall each be in the amount of the Guaranteed Maximum Price Proposal.
- 11.3.4 The Payment Bond and Performance Bond shall be in effect on the date the Contract is signed by District.
- 11.3.5 Design-Builder shall promptly furnish such additional security as may be required by District to protect its interests and those interests of persons or firms supplying labor or materials to the Work. Design-Builder shall furnish supplemental Payment and Performance Bonds each in the amount of the current Contract Sum at the request of the District.
- 11.3.6 Surety companies used by Design-Builder shall be, on the date the Contract is signed by District, listed in the latest published State of California, Department of Insurance, list of "Insurers Admitted to Transact Surety Insurance in This State."
- 11.3.7 The premiums for the Payment Bond and Performance Bond shall be paid by Design-Builder.

ARTICLE 12. UNCOVERING AND CORRECTION OF CONSTRUCTION WORK

12.1 UNCOVERING OF WORK

- 12.1.1 If a portion of the Construction Work is covered contrary to District's Representative's request or direction, or contrary to the requirements of the Contract Documents, it must, if required in writing by District's Representative, be uncovered for District's Representative's observation and be replaced at Design-Builder's expense without adjustment of the Contract Time or the Contract Sum.
- 12.1.2 If a portion of the Construction Work has been covered, which is not required by the Contract Documents to be observed or inspected prior to its being covered and which District's Representative has not specifically requested to observe prior to its being covered, District's Representative may request to see such Construction Work and it shall be uncovered and replaced by Design-Builder. If such Construction Work is in accordance with the Contract Documents, the costs of uncovering and replacing the Construction Work shall be added to the Contract Sum by Change Order; and if the uncovering and replacing of the Construction Work extends the Contract Time, an appropriate adjustment of the Contract Time shall be made by Change Order. If such Construction Work is not in accordance with the Contract Documents, Design-Builder shall pay such costs and shall not be entitled to an adjustment of the Contract Time or the Contract Sum.

12.2 CORRECTION OF DEFECTIVE WORK AND GUARANTEE TO REPAIR PERIOD

- 12.2.1 The term "Guarantee to Repair Period" means a period of two (2) years, unless a longer period of time is specified, commencing as follows:
 - .1 For any Construction Work not described as incomplete in the Certificate of Substantial Completion, on the date of Substantial Completion.
 - .2 For space beneficially occupied or for separate systems fully utilized prior to Substantial Completion pursuant to Article 9.6 of the General Conditions, from the first date of such Beneficial Occupancy or actual use, as established in a Certificate of Beneficial Occupancy.
 - .3 For all Construction Work other than 12.2.1.1 or 12.2.1.2 above, from the date of Final Completion.
- 12.2.2 Design-Builder shall (1) correct Defective Work that becomes apparent during the progress of the Work or during the Guarantee to Repair Period; and (2) replace, repair, or restore to District's satisfaction any other parts of the Work and any other real or personal property that is damaged or destroyed as a result of Defective Work or the correction of Defective Work. Design-Builder shall promptly commence such correction, replacement, repair, or restoration upon notice from District's Representative or District, but in no case later than ten (10) days after receipt of such notice, and Design-Builder shall diligently and continuously prosecute such correction to completion. Design-Builder shall bear all costs of such correction, replacement, repair, or restoration, and all losses resulting from such Defective Work, including additional testing, inspection, and compensation for District's Representative's services and expenses. Design-Builder shall perform corrective

Work at such times that are acceptable to District and in such a manner as to avoid, to the extent practicable, disruption to District's activities.

- 12.2.3 If immediate correction of Defective Work is required for life safety or the protection of property and is performed by District or Separate Contractors, Design-Builder shall pay to District all reasonable costs of correcting such Defective Work. Design-Builder shall replace, repair, or restore to District's satisfaction any other parts of the Construction Work and any other real or personal property which is damaged or destroyed as a result of such Defective Work or the correction of such Defective Work.
- 12.2.4 At Design-Builder's expense, Design-Builder shall remove from the Project site portions of the Construction Work and materials that are not in accordance with the Contract Documents and that are neither corrected by Design-Builder nor accepted by District.
- 12.2.5 If Design-Builder fails to commence correction of Defective Work within **ten (10)** days after notice from District or District's Representative, or fails to diligently prosecute such correction to completion, District may correct the Defective Work at Design-Builder's expense, in accordance with Article 2.4 of the General Conditions. In addition, District may remove the Defective Work and store salvageable materials and equipment at Design-Builder's expense.
- 12.2.6 If Design-Builder fails to pay the costs of such removal and storage as required by above Articles 12.2.4 and 12.2.5, within **ten (10)** days after written demand, District may, without prejudice to other remedies, sell such materials at auction or at private sale, or otherwise dispose of such material. Design-Builder shall be entitled to the proceeds of such sale, if any, in excess of the costs and damages for which Design-Builder is liable to District, including compensation for District's Representative's services and expenses. If such proceeds of sale do not cover costs and damages for which Design-Builder is liable to District, the Contract Sum shall be reduced by such deficiency. If there are no remaining payments due Design-Builder or the remaining payments are insufficient to cover such deficiency, Design-Builder shall promptly pay the difference to District.
- 12.2.7 Design-Builder's obligations under this Article 12 are in addition to, and not in limitation of, its warranty under Article 3.4 of the General Conditions or any other obligation of Design-Builder under the Contract Documents. Enforcement of Design-Builder's express warranties and guarantees to repair contained in the Contract Documents shall be in addition to and not in limitation of any other rights or remedies District may have under the Contract Documents or at law or in equity for Defective Work. Nothing contained in this Article 12 shall be construed to establish a period of limitation with respect to other obligations of Design-Builder under the Contract Documents. Establishment of the Guarantee to Repair Period relates only to the specific obligation of Design-Builder to correct the Work and in no way limits either Design-Builder's liability for Defective Work or the time within which proceedings may be commenced to enforce Design-Builder's obligations under the Contract Documents.

ARTICLE 13. TERMINATION OR SUSPENSION OF THE CONTRACT

13.1 TERMINATION BY DESIGN-BUILDER

- 13.1.1 Subject to below Article 13.1.2, Design-Builder shall have the right to terminate the Contract only upon the occurrence of one of the following:
1. Provided that District has not commenced reasonable action to remove any order of a court within the ninety (90) day period, the Work is stopped for **ninety (90)** consecutive days, through no act or fault of Design-Builder, any Subcontractor, or any employee or agent of Design-Builder or any Subcontractor, due to an issuance of an order of a court or other public authority having jurisdiction or due to an act of government, such as a declaration of a national emergency making material unavailable.
 2. District fails to perform any material obligation under the Contract Documents and fails to cure such default within **thirty (30)** days, or District has not commenced to cure such default within **thirty (30)** days where such cure will require a reasonable period beyond **thirty (30)** days and diligently prosecutes the same to completion, after receipt of notice from Design-Builder stating the nature of such default(s).
 3. Repeated suspensions by District, other than such suspensions as are agreed to by Design-Builder under Article 13.3 below, which constitute in the aggregate more than **twenty percent (20%)** of the Contract Time.
- 13.1.2 Upon the occurrence of one of the events listed in Article 13.1.1 above, Design-Builder may, upon giving **thirty (30)** days additional notice to District and District's Representative, and provided that the condition

giving rise to Design-Builder's right to terminate is continuing, terminate the Contract.

- 13.1.3 Upon termination by Design-Builder, District shall pay to Design-Builder the sum determined by Article 13.4.4 of the General Conditions. Such payment shall be the sole and exclusive remedy to which Design-Builder is entitled in the event of termination of the Contract by Design-Builder pursuant to this Article 13.1, and Design-Builder shall be entitled to no other compensation or damages and expressly waives the same.

13.2 TERMINATION BY DISTRICT FOR CAUSE

- 13.2.1 District shall have the right to terminate the Contract for cause at any time after the occurrence of any of the following events:

- .1 Design-Builder becomes insolvent or files for relief under the bankruptcy laws of the United States.
- .2 Design-Builder makes a general assignment for the benefit of its creditors or fails to pay its debts as the same become due.
- .3 A receiver is appointed to take charge of Design-Builder's property.
- .4 The commencement or completion of any Work activity on the critical path is more than **[thirty (30)]** days behind the date set forth in the Contract Schedule for such Work activity as a result of an Unexcusable Delay. For a Contract with a Contract Time of less than **[three hundred (300)]** days, the **[thirty (30)]** day period shall be reduced to the number of days commensurate with **[ten percent (10%)]** of the Contract Time.
- .5 Design-Builder abandons the Work.

- 13.2.2 Upon the occurrence of any of the following events, District shall have the right to terminate the Contract for cause if Design-Builder fails to promptly commence to cure such default and diligently prosecute such cure within **[five (5)]** days after notice from District, or within such longer period of time as is reasonably necessary to complete such cure:

- .1 Design-Builder persistently or repeatedly refuses or fails to supply skilled supervisory personnel, an adequate number of properly skilled workers, proper materials, or necessary equipment to prosecute the Work in accordance with the Contract Documents.
- .2 Design-Builder fails to make prompt payment of amounts properly due Subcontractors after receiving payment from District.
- .3 Design-Builder disregards Applicable Code Requirements.
- .4 Design-Builder persistently or materially fails to execute the Work in accordance with the Contract Documents.
- .5 Design-Builder is in default of any other material obligation under the Contract Documents.
- .6 Design-Builder persistently or materially fails to comply with applicable safety requirements.

- 13.2.3 Upon any of the occurrences referred to in Articles 13.2.1 and 13.2.2 above, District may, at its election and by notice to Design-Builder, terminate the Contract and take possession of the Project site and all materials, supplies, equipment, tools, and construction equipment and machinery thereon owned by Design-Builder; accept the assignment of any or all of the subcontracts; and then complete the Work by any method District may deem expedient. If requested by District, Design-Builder shall remove any part or all of Design-Builder's materials, supplies, equipment, tools, and construction equipment and machinery from the Project site within **[seven (7)]** days of such request; and if Design-Builder fails to do so, District may remove or store, and after **[ninety (90)]** days sell, any of the same at Design-Builder's expense.

- 13.2.4 If the Contract is terminated by District as provided in this Article 13.2, Design-Builder shall not be entitled to receive any further payment until the expiration of **[thirty-five (35)]** days after Final Completion and acceptance of all Work by District.

- 13.2.5 If the unpaid balance of the Contract Sum exceeds the cost of completing the Work, including all additional costs and expenses made necessary thereby, including costs for District staff time, plus all losses sustained, including any liquidated damages provided under the Contract Documents, such excess shall be paid to

Design-Builder. If such costs, expenses, losses, and liquidated damages exceed the unpaid balance of the Contract Sum, Design-Builder shall pay such excess to District.

- 13.2.6 No termination or action taken by District after termination shall prejudice any other rights or remedies of District provided by law or by the Contract Documents upon such termination, and District may proceed against Design-Builder to recover all losses suffered by District.

13.3 SUSPENSION BY DISTRICT FOR CONVENIENCE

- 13.3.1 District may, at any time and from time to time, without cause, order Design-Builder, in writing, to suspend, delay, or interrupt the Work in whole or in part for such period of time as District may determine, up to [ninety (90)] days, with such period of suspension to be computed from the date of delivery of the written order. Such order shall be specifically identified as a "Suspension Order" under this Article 13.3. The Work may be stopped for such further period as the parties may agree. Upon receipt of a Suspension Order, Design-Builder shall, at District's expense, comply with its terms and take all reasonable steps to minimize costs allocable to the Work covered by the Suspension Order during the period of Work stoppage. Within [ninety (90)] days after the issuance of the Suspension Order, or such extension to that period as is agreed upon by Design-Builder and District, District shall either cancel the Suspension Order or delete the Work covered by such Suspension Order by issuing a Change Order.
- 13.3.2 If a Suspension Order is canceled or expires, Design-Builder shall continue with the Work. A Change Order shall be issued to cover any adjustments of the Contract Sum or the Contract Time necessarily caused by such suspension. Any Claim by Design-Builder for an adjustment of the Contract Sum or the Contract Time shall be made within [twenty-one (21)] days after the end of the Work suspension. Design-Builder agrees that submission of its claim within said [twenty-one (21)] days is an express condition precedent to its right to Arbitrate or Litigate such a claim.
- 13.3.3 The provisions of this Article 13.3 shall not apply if a Suspension Order is not issued by District. A Suspension Order shall not be required to stop the Work as permitted or required under any other provision of the Contract Documents.

13.4 TERMINATION BY DISTRICT FOR CONVENIENCE

- 13.4.1 District may, at its option, terminate this Contract, in whole or from time to time in part, at any time by giving notice to Design-Builder. Upon such termination, Design-Builder agrees to waive any claims for damages, including loss of anticipated profits, on account thereof; and, as the sole right and remedy of Design-Builder, District shall pay Design-Builder in accordance with Article 13.4.4 below.
- 13.4.2 Upon receipt of notice of termination under this Article 13.4, Design-Builder shall, unless the notice directs otherwise, do the following:
- .1 Immediately discontinue the Work to the extent specified in the notice.
 - .2 Place no further orders or subcontracts for materials, equipment, services, or facilities, except as may be necessary for completion of such portion of the Work as is not discontinued;
 - .3 Promptly cancel, on the most favorable terms reasonably possible, all subcontracts to the extent they relate to the performance of the discontinued portion of the Work; and
 - .4 Thereafter, do only such Work as may be necessary to preserve and protect Work already in progress and to protect materials, plants, and equipment on the Project site or in transit thereto.
- 13.4.3 Upon such termination, the obligations of the Contract shall continue as to portions of the Work already performed and, subject to Design-Builder's obligations under Article 13.4.2 above, as to bona fide obligations assumed by Design-Builder prior to the date of termination.
- 13.4.4 Upon such termination, District shall pay to Design-Builder the sum of the following:
- .1 The amount of the Contract Sum allocable to the portion of the Work properly performed by Design-Builder as of the date of termination, less sums previously paid to Design-Builder.
 - .2 Incorporation in the Work.
 - .3 Plus any proven losses with respect to materials and equipment directly resulting from such termination.

- 4 Plus reasonable demobilization costs.
- 5 Plus reasonable costs of preparing a statement of the aforesaid costs, expenses, and losses in connection with such termination.

The above payment shall be the sole and exclusive remedy to which Design-Builder is entitled in the event of termination of the Contract by District pursuant to this Article 13.4, and Design-Builder shall be entitled to no other compensation or damages and expressly waives same.

ARTICLE 14. STATUTORY AND OTHER REQUIREMENTS

14.1 NONDISCRIMINATION

- 14.1.1 For purposes of this Article 14.1, the term Subcontractor shall not include suppliers, manufacturers, or distributors.
- 14.1.2 Design-Builder shall comply and shall ensure that all Subcontractors comply with Sections 12900 through 12996 of the Government Code.
- 14.1.3 Design-Builder agrees as follows during the performance of the Work:
 - .1 In accordance with Article 3.7.9 herein, Design-Builder shall provide equal treatment to, and shall not willfully discriminate against or allow harassment of any employee or applicant for employment on the basis of: race; religious creed; color; national origin; ancestry; physical disability; mental disability; medical condition (as defined in Section 12926 of the Government Code and including cancer-related medical conditions and/or genetic characteristics); genetic information (as defined in the Genetic Information Nondiscrimination Act of 2008 and including family medical history); marital status; sex, gender; gender identity; gender expression; age; sexual orientation; pregnancy; citizenship (within the limits imposed by law or District's policy); or military and veteran status or service in the uniformed services (as defined by the Uniformed Services Employment and Reemployment Rights Act of 1994). Design-Builder shall also take affirmative action to ensure that any such employee or applicant for employment is not discriminated against on any of the bases identified above. Such equal treatment shall apply, but not be limited to the following: employment; upgrade; demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Design-Builder also agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause. The Design-Builder shall, in all solicitations or advertisements for employees placed by or on behalf of the Design-Builder, state that qualified applicants shall receive consideration for employment without regard to: race; religious creed; color; national origin; ancestry; physical disability; mental disability; medical condition (as defined in Section 12926 of the Government Code and including cancer-related medical conditions and/or genetic characteristics); genetic information (as defined in the Genetic Information Nondiscrimination Act of 2008 and including family medical history); marital status; sex, gender; gender identity; gender expression; age; sexual orientation; pregnancy; citizenship (within the limits imposed by law or District's policy); or military and veteran status or service in the uniformed services (as defined by the Uniformed Services Employment and Reemployment Rights Act of 1994). For purposes of this provision: (1) "pregnancy" includes pregnancy, childbirth, and medical conditions related to pregnancy and childbirth; and (2) "service in the uniformed services" includes membership, application for membership, performance of service, application for service, or obligation for service in the uniformed services.
 - .2 Design-Builder and all Subcontractors shall permit access to their records of employment, employment advertisements, application forms, and other pertinent data and records by District or any appropriate agency of the State of California designated by District for the purposes of investigation to ascertain compliance with this Article 14.1. The outcome of the investigation may result in the following:
 - .1 A finding of willful violation of the provisions of this Contract or of the California Fair Employment and Housing Act may be regarded by District as (1) a basis for determining that Design-Builder is not a "responsible bidder" as to future contracts for which such Design-Builder may submit bids, or (2) a basis for refusing to accept or consider the bids of Design-Builder for future contracts.
 - .2 District may deem a finding of willful violation of the California Fair Employment and Housing Act to have occurred upon receipt of written notice from the California Department of Fair Employment and

Housing that it has (1) investigated and determined that Design-Builder has violated the California Fair Employment Practices Act, and (2) issued an order or obtained pursuant to Applicable Code Requirements.

- .3 Upon receipt of such written notice from the Fair Employment Practices Commission, District may notify Design-Builder that, unless it demonstrates to the satisfaction of District within a stated period that the violation has been corrected, Design-Builder's Proposals on future projects shall not be considered.
- .4 Design-Builder agrees that, should District determine that Design-Builder has not complied with this Article 14.1, Design-Builder shall forfeit to District, as a penalty, for each day or portion thereof, for each person who was denied employment as a result of such non-compliance, the penalties provided in Article 14.2 below for violation of prevailing wage rates. Such penalty amounts may be recovered from Design-Builder; and District may deduct any such penalty amounts from the Contract Sum.
- .5 Nothing contained in this Article 14.1 shall be construed in any manner so as to prevent District from pursuing any other remedies that may be available at law.
- .6 Design-Builder shall meet the following standards for compliance and provide District with satisfactory evidence of such compliance upon District's request, which shall be evaluated in each case by District:
 - .1 Design-Builder shall notify its Superintendent and other supervisory personnel of the nondiscrimination requirements of the Contract Documents and their responsibilities thereto.
 - .2 Design-Builder shall notify all sources of employee referrals (including unions, employment agencies, and the State of California Employment Development Department) of the nondiscrimination requirements of the Contract Documents by sending to such sources and by posting the Notice of Equal Employment Opportunity ("EEO").
 - .3 Design-Builder and/or its representative shall, through all unions with whom it may have agreements, develop agreements that (1) define responsibilities for nondiscrimination in hiring, referrals, upgrading, and training; and (2) implement an affirmative nondiscrimination program, in terms of the unions' specific areas of skill and geography, such that qualified minority women, non-minority women, and minority men shall be available and given an equal opportunity for employment.
 - .4 Design-Builder shall notify District of opposition to the nondiscrimination requirements of the Contract Documents by individuals, firms, or organizations during the term of the Contract.
 - .7 Design-Builder shall include the provisions of the foregoing Articles 14.1.3.2.1 through 14.1.3.2.6 in all subcontracts with Subcontractors, so that such provisions shall be binding upon each such Subcontractor.

14.2 PREVAILING WAGE RATES

- 14.2.1 For purposes of this Article 14.2, the term Subcontractor shall not include suppliers, manufacturers, or distributors.
- 14.2.2 This Project is a public works project and is subject to the payment of prevailing wages. Design-Builder shall comply and shall ensure that all Subcontractors comply with prevailing wage law pursuant to the Labor Code, including, but not limited to, Section 1720 et seq. of the Labor Code, and the Education Code, as applicable. Compliance with these sections is required by this Contract. The Work under this Contract is subject to compliance monitoring and enforcement by the State of California Department of Industrial Relations ("DIR").
- 14.2.3 The State of California DIR has ascertained the general prevailing *per diem* wage rates in the locality in which the Construction Work is to be performed for each craft, classification, or type of worker required to perform the Work. A copy of the general prevailing *per diem* wage rates shall be on file at District's principal facility office and shall be made available to any interested party upon request. Design-Builder shall post a copy of the general prevailing *per diem* wage rates as well as job site notices as prescribed by regulation at the job site. By this reference, such schedule is made part of the Contract Documents. Design-Builder shall pay not less than the prevailing wage rates, as specified in the schedule and any amendments thereto, to all workers employed by Design-Builder in the execution of the Construction Work. Design-Builder shall cause all subcontracts to include the provision that all Subcontractors shall pay not less than the prevailing rates to all

workers employed by such Subcontractors in the execution of the Construction Work. Design-Builder shall forfeit to District, as a penalty, not more than Two Hundred Dollars (\$200) for each calendar day or portion thereof for each worker that is paid less than the prevailing rates as determined by the Director of Industrial Relations for the work or craft in which the worker is employed for any portion of the Work done by Design-Builder or any Subcontractor. The amount of this penalty shall be determined pursuant to applicable law. Such forfeiture amounts may be deducted from the Contract Sum or sought directly from the surety under its Performance Bond if there are insufficient funds remaining in the Contract Sum. Design-Builder shall also pay to any worker who was paid less than the prevailing wage rate for the work or craft for which the worker was employed for any portion of the Construction Work, for each day, or portion thereof, for which the worker was paid less than the specified prevailing *per diem* wage rate, an amount equal to the difference between the specified prevailing *per diem* wage rate and the amount which was paid to the worker. Review of any civil wage and penalty assessment shall be made pursuant to Section 1742 of the Labor Code.

- 14.2.4 Each Design-Builder submitting a proposal must be a DIR registered contractor pursuant to Labor Code Section 1725.5 ("DIR Registered Contractor"), unless an exception expressly provided in the Labor Code applies. This project is subject to compliance monitoring and enforcement by DIR. A proposer who is not a DIR Registered Contractor when submitting a proposal for the work shall be initially rejected as the District may not accept any proposal that does not satisfy the requirements of Labor Code Section 1725.5 and may not enter into any contract for the completion of a public works project with a proposer that is not a DIR Registered Contractor pursuant to Labor Code Section 1725.5(e). Pursuant to Labor Code Section 1725.5, all subcontractors identified in a Proposer's Subcontractor List shall also be DIR Registered Contractors. If awarded the Contract, at all times during performance of the work, the Proposer and all Subcontractors of any tier shall be DIR Registered Contractors and continue to comply with all DIR requirements.

14.3 PAYROLL RECORDS

- 14.3.1 For purposes of this Article 14.3, the term Subcontractor shall not include suppliers, manufacturers, or distributors.
- 14.3.2 Design-Builder and all Subcontractors shall keep an accurate payroll record, showing the name, address, social security number, job classification, straight time and overtime hours worked each day and week, and the actual *per diem* wages paid to each journeyworker, apprentice, worker, or other employee employed in connection with the Construction Work. All payroll records shall be certified as being true and correct by Design-Builder or Subcontractors keeping such records, and the payroll records shall be filed electronically with the Labor Commissioner at least monthly and be available for inspection at all reasonable hours at the principal office of Design-Builder on the following basis:
- .1 A certified copy of an employee's payroll record shall be made available for inspection or furnished to such employee or the employee's authorized representative on request.
 - .2 A certified copy of all payroll records shall be made available for inspection upon request to District, the State of California Division of Labor Standards Enforcement ("DLSE"), and the Division of Apprenticeship Standards ("DAS") of the State of California DIR.
 - .3 A certified copy of all payroll records shall be made available upon request by the public for inspection or copies thereof made; provided, however, that the request by the public shall be made to either District, the DAS, or the DLSE. The public shall not be given access to such records at the principal offices of Design-Builder or Subcontractors. Any copy of the records made available for inspection as copies and furnished upon request to the public or any public agency by District shall be marked or obliterated in such a manner as to prevent disclosure of an individual's name, address, and social security number. The name and address of Design-Builder awarded the Contract or performing the Contract shall not be marked or obliterated.
- 14.3.3 Design-Builder shall file a certified copy of the payroll records with the entity that requested the records within ten (10) days after receipt of a written request. Design-Builder shall inform District of the location of such payroll records for the Project, including the street address, city, and county; and Design-Builder shall, within five (5) working days, provide notice of change of location of such records. In the event of noncompliance with the requirements of this Article 14.3 or with Labor Code Section 1776, Design-Builder shall have ten (10) days in which to comply following receipt of notice specifying in what respects Design-Builder must comply. Should noncompliance still be evident after the ten (10) day period, Design-Builder shall forfeit to District, as a penalty, One Hundred Dollars (\$100) for each day, or portion thereof, for each worker, until strict compliance is accomplished. Such forfeiture amounts may be deducted from the Contract Sum.

14.4 APPRENTICES

- 14.4.1 For purposes of this Article 14.4, the term Subcontractor shall not include suppliers, manufacturers, and distributors.
- 14.4.2 Only apprentices, as defined in Labor Code Section 3077, who are in training under apprenticeship standards and written apprentice agreements under Division 3, Chapter 4, of the Labor Code, are eligible to be employed by Design-Builder and Subcontractors as apprentices. The employment and training of each apprentice shall be in accordance with the provisions of the apprenticeship standards and written apprentice agreements under which the apprentice is training and in accordance with prevailing wage law pursuant to the Labor Code, including, but not limited to, Section 1777.5. The Design-Builder bears responsibility for compliance with this section for all apprenticeable occupations.
- 14.4.3 Every apprentice shall be paid the standard wage to apprentices, under the regulations of the craft or trade at which the apprentice is employed, and shall be employed only for the Construction Work in the craft or trade to which the apprentice is indentured.
- 14.4.4 When Design-Builder or Subcontractors employ workers in any apprenticeship craft or trade on the Work, Design-Builder or Subcontractors shall 1) send contract award information to the applicable joint apprenticeship committee that can supply apprentices to the site of the public work; and 2) apply to the joint apprenticeship committee, which administers the apprenticeship standards of the craft or trade in the area of the Project site, for a certificate approving Design-Builder or Subcontractors under the apprenticeship standards for the employment and training of apprentices in the area of the Project site. The committee shall issue a certificate fixing the number of apprentices or the ratio of apprentices to journeypersons who shall be employed in the craft or trade on the Construction Work. The ratio shall not exceed that stipulated in the apprenticeship standards under which the joint apprenticeship committee operates; but in no case shall the ratio be less than one (1) hour of apprentice work for every five (5) hours of journeyperson work, except as permitted by law. Design-Builder or Subcontractors shall, upon the issuance of the approval certificate in each such craft or trade, employ the number of apprentices, or the ratio of apprentices to journeypersons fixed in the certificate issued by the joint apprenticeship committee, or present an exemption certificate issued by the DAS.
- 14.4.5 "Apprenticeship craft or trade," as used in this Article 14.4, shall mean a craft or trade determined as an apprenticeship occupation in accordance with rules and regulations prescribed by the California Apprenticeship Council.
- 14.4.6 If Design-Builder or Subcontractors employ journeymen or apprentices in any apprenticeship craft or trade in the area of the Project site, and there exists a fund for assisting to allay the cost of the apprenticeship program in the trade or craft, to which fund or funds other contractors in the area of the Project site are contributing, Design-Builder and Subcontractors shall contribute to the fund or funds in each craft or trade in which they employ journeymen or apprentices on the Construction Work in the same amount or upon the same basis and in the same manner done by the other contractors. Design-Builder may include the amount of such contributions in computing its Proposal for the Contract; but if Design-Builder fails to do so, it shall not be entitled to any additional compensation therefore from District.
- 14.4.7 In the event Design-Builder willfully fails to comply with this Article 14.4, it shall be considered in violation of the requirements of the Contract.
- 14.4.8 Nothing contained herein shall be considered or interpreted as prohibiting or preventing the hiring by Design-Builder or Subcontractors of journeyworker trainees who may receive on-the-job training to enable them to achieve journeyworker status in any craft or trade under standards other than those set forth for apprentices.

14.5 CONSTRUCTION WORK-DAY

- 14.5.1 Design-Builder shall not permit any worker to labor more than eight (8) hours during any one (1) day, or more than forty (40) hours during any one (1) calendar week, except as permitted by law and in such cases only upon such conditions as are provided by law. Design-Builder shall forfeit to District, as a penalty, Twenty-Five Dollars (\$25) for each worker employed in the execution of this Contract by Design-Builder, or any Subcontractor, for each day during which such worker is required or permitted to work more than eight (8) hours in any one (1) day and forty (40) hours in any one (1) calendar week in violation of the terms of this Article 14.5 or in violation of the provisions of any law of the State of California. Such forfeiture amounts may be deducted from the Contract Sum. Design-Builder and each Subcontractor shall keep, or cause to be kept, an accurate record showing the actual hours worked each day and each calendar week by each worker employed on the Project, which record shall be kept open at all reasonable hours to the inspection of District,

its officers and agents, and to the inspection of the appropriate enforcement agency of the State of California.

ARTICLE 15. MISCELLANEOUS PROVISIONS

15.1 GOVERNING LAW

15.1.1 This Contract shall be governed by the laws of the State of California.

15.2 SUCCESSORS AND ASSIGNS

15.2.1 District and Design-Builder respectively bind themselves and their successors, permitted assigns, and legal representatives to the other party and to the successors, permitted assigns, and legal representatives of such other party in respect to covenants, agreements, and obligations contained in the Contract Documents. Design-Builder shall not assign, transfer, convey, sublet, or otherwise dispose of this Contract or any part thereof including any claims, without prior written consent of the District. Any assignment without the written consent of the District shall be void. Any assignment of money due or to become due under this Contract shall be subject to a prior lien for services rendered or material supplied for performance of Work called for under the Contract Documents in favor of all persons, firms, or corporations rendering such services or supplying such Materials to the extent that claims are filed pursuant to the Civil Code, the Code of Civil Procedure, or the Government Code.

15.3 RIGHTS AND REMEDIES

15.3.1 All District's rights and remedies under the Contract Documents shall be cumulative and in addition to, and not in limitation of, all other rights and remedies of District under the Contract Documents or otherwise available at law or in equity.

15.3.2 No action or failure to act by District or District's Representative shall constitute a waiver of a right afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a condition or breach thereunder, except as may be specifically agreed in writing. No waiver by District or District's Representative of any condition, breach, or default shall constitute a waiver of any other condition, breach, or default, nor shall any such waiver constitute a continuing waiver.

15.3.3 No provision contained in the Contract Documents shall create or give to third parties any claim or right of action against District, District's Representative, or Design-Builder.

15.4 SURVIVAL

15.4.1 The provisions of the Contract, which by their nature survive termination of the Contract or Final Completion, including all warranties, indemnities, payment obligations, and District's right to audit Design-Builder's books and records, shall remain in full force and effect after Final Completion or any termination of the Contract.

15.5 COMPLETE AGREEMENT

15.5.1 The Contract Documents constitute the full and complete understanding of the parties and supersede any previous agreements or understandings, oral or written, with respect to the subject matter hereof. The Contract may be modified only by a written instrument signed by both parties or as provided in Article 7 of the General Conditions.

15.6 SEVERABILITY OF PROVISIONS

15.6.1 If any one or more of the provisions contained in the Contract Documents should be invalid, illegal, or unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions contained herein shall not in any way be affected or impaired thereby.

15.7 RESERVED

15.8 TIME OF THE ESSENCE

15.8.1 Time is of the essence with respect to all terms and provisions of the Contract Documents.

15.9 DISTRICT'S RIGHT TO AUDIT

15.9.1 District and entities and agencies designated by District shall have access to and the right to audit and the right to copy at District's cost all of Design-Builder's books, records, contracts, correspondence, instructions, drawings, receipts, vouchers, purchase orders, and memoranda relating to the Work. Design-Builder shall preserve all such records and other items during the performance of the Contract and for a period of at least three (3) years after Final Completion.

15.10 METHODS OF DELIVERY FOR SPECIFIED DOCUMENTS

15.10.1 The following documents must be delivered in a manner specified in Article 15.10.2:

- .1 Design-Builder notices of election to litigate or arbitrate;
- .2 Written demand for an informal conference to meet and confer pursuant to Article 4.5;
- .3 District's written statement identifying remaining disputes following informal conference pursuant to Article 4.6;
- .4 Written demand for non-binding mediation pursuant to Article 4.6;
- .5 Design-Builder claims pursuant to Article 4.3;
- .6 Design-Builder notices of conditions pursuant to Articles 3.10.4, 3.24, or 3.25;
- .7 District's notices of Design-Builder's failure to perform and/or correct defective work pursuant to Articles 4.1.6, 12.2 and 13.2.3;
- .8 District's notice to stop work pursuant to Article 2.3.1; and
- .9 Notices of termination or suspension pursuant to Article 13.

15.10.2 Delivery methods for documents specified in Article 15.10.1 include:

- .1 By personal delivery; or
- .2 Sent by facsimile copy where receipt is confirmed; or
- .3 Sent by Express Mail, or another method of delivery providing for overnight delivery where receipt is confirmed; or
- .4 Sent by registered or certified mail, postage prepaid, return receipt requested.

15.10.3 The documents identified in Article 15.10.1 shall only be effective if delivered in the manner specified in Article 15.10.2. Subject to the forgoing, such documents shall be deemed given and received upon actual receipt in the case of all except registered or certified mail; and in the case of registered or certified mail, on the date shown on the return receipt or the date delivery during normal business hours was attempted. Delivery of the specified documents shall be made at the respective street addresses set forth in the Agreement. Such street addresses may be changed by notice given in accordance with this Article 15.10.

15.11 MUTUAL DUTY TO MITIGATE

15.11.1 District and Design-Builder shall use all reasonable and economically practicable efforts to mitigate delays and damages to the Project and to one another with respect to the Project, regardless of the cause of such delay or damage.

15.12 FAIR WAGE

15.12.1 Design-Builder shall comply with all applicable federal, state and local working condition requirements.

15.13 COUNTERPARTS

15.13.1 The Agreement may be executed in two (2) or more counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same Agreement. The counterparts of this Agreement may be executed via a District-approved digital signature process and shall have the same force and effect as the use of a manual signature. The District reserves the right to reject any digital signature that cannot be positively verified by the District system as an authentic digital signature.

15.14 NOTICE AND SERVICE THEREOF

15.14.1 All notices shall be in writing and shall either be served by personal delivery or mailed to the other party. Written notice to the Design-Builder shall be addressed to Design-Builder's principal place of business unless Design-Builder designates another address in writing for service of notice. Notice to District shall be addressed to the District as designated in the Project Directory unless District designates another address in writing for service of notice. Notice shall be effective upon receipt or **five (5)** days after being sent by first class mail, whichever is earlier.

15.15 AUTHORIZED REPRESENTATIVES

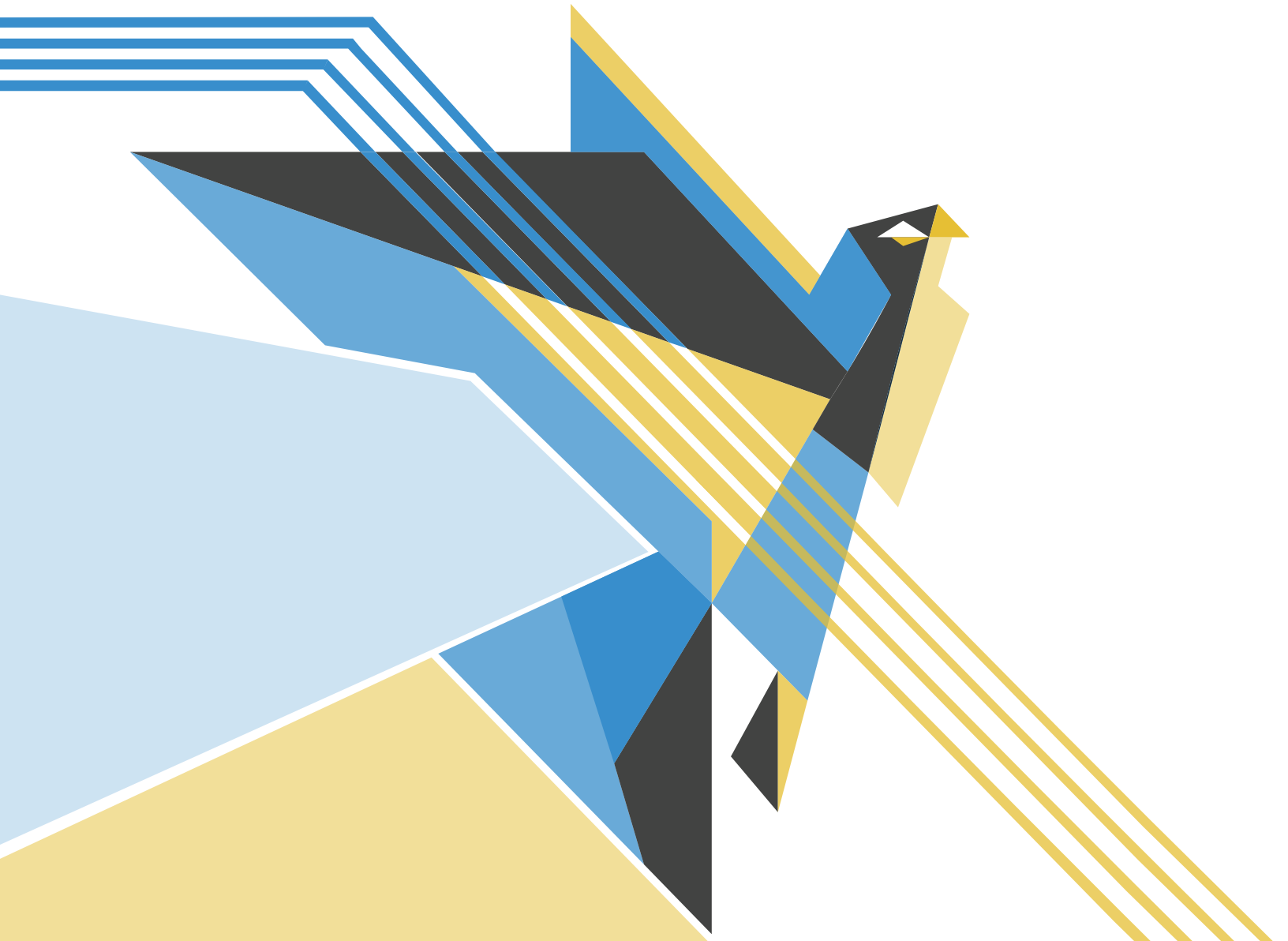
15.15.1 The District shall designate representatives, who shall have the right to be present at the Project site at all times. The District may designate an inspector, in accordance with requirements of Title 19, 21 and/or 24 of the California Code of Regulations, who shall have the right to observe all of the Design-Builder's Work. His/her duties are specifically defined in the California Code of Regulations. The inspector is not authorized to make changes in the Contract Documents. The inspector shall not be responsible for the Design-Builder's failure to carry out the Work in accordance with the Contract Documents. Inspector shall be provided with all necessary samples of materials and work for testing purposes. She/he shall have free access to any or all parts of Work at any time. Design-Builder shall provide safe and proper facilities for such access.

15.16 PROHIBITED INTERESTS

15.16.1 No District official or representative who is authorized in such capacity and on behalf of the District to negotiate, supervise, make, accept, or approve, or to take part in negotiating, supervising, making, accepting, or approving any engineering, inspection, construction, or material supply contract or any subcontract in connection with construction of the Project, shall be or become directly or indirectly interested financially in the Contract.

[END OF DOCUMENT]

261-316/6617905.1



JEFFERSON MIDDLE SCHOOL

WHOLE SITE MODERNIZATION
DESIGN CRITERIA DOCUMENTS | JANUARY 26, 2024



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A

BASIS OF DESIGN

JEFFERSON MIDDLE SCHOOL

Oceanside Unified School District

2111 Mission Avenue
Oceanside, CA 92058

Jefferson Middle School

823 Acacia Ave.
Oceanside, CA 92058

1.1 PROJECT INTRODUCTION

Jefferson Middle School is located east of Interstate 5, north of Mission Avenue at 823 Acacia Ave Oceanside, California. It is one of three middle schools serving Oceanside Unified School District students. The current student population is roughly 468 students in grades 6-8.

EXISTING CONDITIONS

The site is on 12 acres; the original buildings were built in the 1950s. The campus demolished and replaced the original locker room with a new building in 2005. During that same year, 2 new 2-story classroom buildings were built that replaced modular buildings. The remaining original buildings on site include Administration, Multipurpose Room, and a series of finger classroom buildings. An existing landfill is located immediately south of the campus limits and a preliminary geotechnical report will be provided to confirm the extent of the remedial grading and extent of contaminated soil.

The site conditions have deteriorated due to the standard aging lifespan. Currently, the existing figure buildings do not meet accessibility requirements at multiple levels. Also, access to the campus is limited to an L-shaped, one-way residential street, and there is a need to establish traffic flow or clear drop-off access. Wayfinding is lacking for the main parking lot, which is situated on the south end of the campus.

1.2 ARCHITECTURAL

DESIGN APPROACH

The overarching project goals and the guiding principles for the design of Jefferson Middle School (JMS) were established through multiple workshops and meetings with the District's Executive committee considering the District's Vision for this school as follows:

- Establish a new school main entrance that enriches the school's identity
- Provide a safe and secure environment
- Efficiency & multifunctionality of the school program
- Indoor/outdoor connectivity

- School pride & community presence
- 21st-century learning spaces

The District provided HPI with a facilities program that was completed for the modernization of the school campus. HPI worked closely with the District's Executive team and CCM-MAAS Program Managers to right-size the school and provide a facilities program that serves the current school's needs for primary and specialty programs, also providing for future growth.

To achieve the project goals above, the proposed design concept considered demolishing the current Administration and interior campus finger classroom buildings to provide an opportunity to locate the new building and create exterior spaces (Exterior learning spaces and school quad) that the schools currently lack.

The new Administration, Gym/MPR, Food Service, and new Visual and Performing Arts classroom buildings will be positioned on the site in a way that recognizes the importance of the relationship to the remaining original buildings and the site. The layout of the new buildings will have a dual purpose: to provide a new entry point for the school and to enhance the 'campus's identity.

The existing MPR will be repurposed into a Library that will act as another anchor point defining a sense of place. The 2-story classrooms and locker room buildings currently occupying the site will be retained and repurposed to align with the educational program requirements for classroom count.

After finalizing the schematic design cost estimate and conducting value engineering assessments, the District Executive team, in collaboration with CCM/MAAS, has opted for the utilization of modular pre-engineered buildings for the new VAPA and Science classrooms, Administration, Gym/MPR, and Food Service facilities. This choice is driven by the potential cost savings in both time and materials offered by the pre-engineered modular building system. The decision entails a distinct Design-Build process for the pre-engineered modular building, while the remaining aspects of the project, including site work, the remodel of the Existing MPR building, and the renovations of Buildings L, M, and N, will follow a Design-Bid-Build approach.

Both the building design and site layout are equally significant and interdependent. The outdoor environment is an extension of the indoor learning environment, providing students with an opportunity to learn and develop a sense of belonging, which is closely linked to the educational culture the JMS aims to promote.

Within the campus, the outdoor classroom layout will complement the newly built VAPA classroom building. The external courtyards, campus quad, and play area will provide supportive social learning environments for the students. The site design will review accessibility concerns throughout the campus to ensure the final site design is in compliance with accessibility standards.

1.1 *APPLICABLE CODES, STANDARDS & GUIDELINES*

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)
- 2022 CALIFORNIA BUILDING CODE (CBC)
- 2022 CALIFORNIA ELECTRICAL CODE (CEC)
- 2022 CALIFORNIA MECHANICAL CODE (CMC)

- 2022 CALIFORNIA PLUMBING CODE (CPC)
- 2022 CALIFORNIA ENERGY CODE (CEC)
- 2022 CALIFORNIA FIRE CODE (CFC)
- 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC)
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)
- 2022 CALIFORNIA REFERENCED STANDARDS
- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) 2022 EDITION
- NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS 2024 EDITION
- NFPA 17 STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS 2024 EDITION
- NFPA 17A STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS 2024 EDITION
- NFPA 20 STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION 2022 EDITION
- NFPA 22 STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION 2023 EDITION
- NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS & THEIR APPURTENANCES 2022 EDITION
- NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2022 EDITION
- NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES 2022 EDITION
- NFPA 2001 STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2022 EDITION
- UL 300 STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT 2019 EDITION
- UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES 2023 EDITION
- UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS 2023 EDITION
- UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED 2004 EDITION

GENERAL DESCRIPTION OF NEW MODULAR BUILDINGS AND MATERIALS:

BUILDING A – VISUAL AND PERFORMING ARTS VAPA AND SCIENCE BUILDING

The building will be located on the east side of the campus and will be 20,760 square feet. It has been designed to house JMS's Visual, Performing Arts, and Science educational programs as part of its special curriculum offered to students. Additionally, the building boasts an academic campus frontage, while the classrooms inside feature a unique folding wall system that facilitates a seamless indoor/outdoor learning experience.

BUILDING B – ADMINISTRATION, GYM/MPR, AND FOOD SERVICE

The 21,177 square foot single story modular building includes three primary areas – Administration, Gym/MPR, and Food Service – and will serve as the main entrance to the campus, functioning as a prominent and identifiable destination point.

- Administration:

The Administration building, covering an area of approx. 5300 square feet, will house the program approved by the executive committee as per the included Educational Program. It will comprise administrative offices and support spaces and be located adjacent to the Gym/MPR building, creating a direct link between the two areas.

- Gym/MPR

With an approx. area of 8200 square feet, the Gym/MPR will house basketball courts and a performance stage, serving primarily as a physical education facility and a venue for school events. It will have entrances from both the visitor side and the campus interior, enabling the school to hold after-school or weekend functions for the community.

Positioned between the Administration and Food Service components, the Gym/MPR building will have a greater height compared to the other two structures. The building's North side façade will feature high ribbon window glazing that allows natural lighting to enter, providing a unique and striking quality to the building. The stage will have the flexibility to open out and be visible from Lunch Shelter C as well as from within the enclosed Gym/MPR space.

- Food Service

Located on the south side of the campus next to the Gym/MPR, the Food Service area will occupy approx. 2,850 square feet. The kitchen will be designed to provide storage, preparation, and full cooking services to cater to the student population, and it will have direct access to the exterior service delivery. The exterior service area will have an accessible ramp and loading platform for delivery trucks. It will also be utilized as a trash pick-up zone.

BUILDING C – LUNCH SHELTER

A pre-engineered lunch shelter covering an area of approx. 3,400 square feet will be located next to the Gym/MPR and outdoor stage. It will offer ample seating for students during lunchtime and school events. The shelter will mainly consist of a metal panel roof system and steel columns with a cement plaster finish.

ENTRY CANOPY

The Entry Canopy provides shelter to the entrance pathway, between Buildings A and B. The shelter will be a pre-engineered structure and mainly consist of a metal panel roof system and steel columns with a cement plaster finish.

BUILDING MATERIALS FOR ALL BUILDINGS

The building materials throughout the campus will be consistent. The exterior of Building H which will be remodeled, will include a combination of new cement plaster and new smooth cement plaster fiber cement boards and integrating the school colors throughout – the main color 'blue' and accent 'orange.'

INTERIM HOUSING

During the design development phase, it was noted there will be a need to bring in additional temporary portables on the campus to accommodate students while construction is underway. HPI worked closely with the School Principal and CCM-MAAS Program Managers to study site phasing and interim housing needs by construction phases. The studies established a need for 2 additional portables for Interim Admin., additional portable for Interim Library and book storage, and 2 restroom portables. The interim scope of work will be under a separate package.

THE DESIGN-BUILD PROJECT OVERVIEW

The purpose of the design criteria document is to guide design-build teams in submitting comprehensive proposals that align with the project's vision of an adaptable and sustainable school facility.

The proposed project includes the construction of a premanufactured modular gymnasium, kitchen, and classrooms (refer to the floor plans). This design-build project aims to provide an innovative and sustainable learning environment for students while optimizing construction efficiency through prefabrication.

DESIGN OBJECTIVES:

MODULARITY AND EXPANDABILITY:

The design must incorporate a modular approach, allowing for easy expansion or reconfiguration of classrooms and gymnasium spaces to accommodate future needs.

FLEXIBILITY IN CLASSROOM LAYOUT:

Classrooms should be designed with flexibility in mind, accommodating various teaching methods and technology integration. Consideration should be given to modular furniture arrangements. Reference the floor plans.

ENERGY-EFFICIENT DESIGN:

The building should prioritize energy efficiency through the use of sustainable materials, energy-efficient HVAC systems, and integrated technologies to minimize long-term operational costs. Refer to the photovoltaic, mechanical, and electrical design criteria in this document.

AESTHETIC INTEGRATION:

The architectural design should seamlessly integrate the premanufactured modular components into a cohesive and aesthetically pleasing structure that complements the surrounding environment.

STRUCTURAL INTEGRITY:

Ensure that the structural design meets all safety standards and local building codes, providing a robust and resilient framework for both the gymnasium and classrooms.

ACOUSTIC PERFORMANCE:

Address the unique acoustic requirements of classrooms, gymnasium, and kitchen to create optimal learning and sports environments. Include soundproofing measures and materials to minimize noise transfer.

OUTDOOR LEARNING AND RECREATIONAL SPACES:

Integrate outdoor learning spaces and recreational areas to enhance the overall educational experience and promote physical activity.

TECHNOLOGY INTEGRATION:

Provide a technology-ready infrastructure in classrooms, including wiring for audiovisual equipment, smart boards, and high-speed internet connectivity as per the standards of the district.

EFFICIENT KITCHEN WORKFLOW:

Design the modular kitchen layout to facilitate an efficient workflow for food preparation, cooking, and serving. Utilize modular kitchen units for flexibility and adaptability.

ACCESSIBILITY AND INCLUSIVITY:

Design the facility to meet all accessible requirements per the current California Building Code.

SAFETY AND SECURITY:

Implement safety measures such as emergency exits, fire suppression systems, and security features to ensure the well-being of students, staff, and visitors.

NATURAL LIGHTING AND VENTILATION:

Maximize natural lighting in classrooms and the gymnasium to create a positive learning environment. Ensure efficient ventilation systems for indoor air quality.

CONSTRUCTION AND PROJECT MANAGEMENT REQUIREMENTS:

TIMELINE:

The design-build team must provide a realistic and achievable construction timeline, including milestones and completion dates as provided in the RFP.

QUALITY ASSURANCE:

Include a comprehensive quality assurance plan to ensure that all pre-manufactured components meet industry standards and specifications.

COST-EFFECTIVE SOLUTIONS:

Propose cost-effective solutions without compromising the quality and functionality of the facility. Provide a detailed cost breakdown and justification.

COMMUNICATION AND COLLABORATION:

Demonstrate a collaborative approach between the design and construction teams, ensuring effective communication and coordination throughout the project.

SUSTAINABILITY PRACTICES:

Incorporate sustainable construction practices, waste reduction strategies, and environmentally friendly materials in alignment with green building standards.

STRUCTURAL DESIGN CRITERIA**GENERAL**

The Design Builder is required to provide a complete structural design and construction of the new buildings and canopies for Jefferson Middle School. This section summarizes the scope, codes, standards, criteria and practices that will be used in the design and construction.

NEW CONSTRUCTION

Codes and Standards

- The design of the structural system shall be in accordance with the laws and regulations of the State of California and industry standards. The Codes, standards, criteria and practices summarized in this section are for reference only. It is the responsibility of the Design-Builder to comply with all applicable codes, regulations as well as District Design Guidelines, Specifications, and Technical Drawings.
- 2022 California Building Code based on the 2021 International Building Code
- ASCE 7-16, Minimum Design Loads for Buildings and Other Structures
- ACI 318-19, Building Code Requirements for Structural Concrete
- TMS 402-16, Building Code for Masonry Structures
- AISC 360-16, Specification for Structural Steel Buildings
- AISC 341-16, Seismic Provisions for Structural Steel Buildings
- AWS D1.1 – Structural Welding Code, 2015 Edition

Gravity Design Dead Loads

- Dead loads will consist of the actual weights of material of construction and fixed equipment.

Gravity Design Live Loads

- Live loads shall be per CBC Section 1607A. Below are some common occupancies for reference:
 - Classrooms 50psf⁽¹⁾ + 15psf partitions
 - Offices 50psf⁽¹⁾ + 15psf partitions
 - Assembly and First Floor⁽²⁾ Circulation Areas 100psf⁽¹⁾
 - Circulation Areas above First Floor⁽²⁾ 80psf⁽¹⁾
 - Stairs 100psf
 - Mechanical/Electrical Equipment Rooms 100psf or actual equipment weight, whichever is greater
 - Library Reading Rooms 60psf
 - Library Stack Rooms 150psf
 - Light Storage 125psf
 - Roofs⁽¹⁾ 20psf or actual equipment weight, whichever is greater

(1) The design live load may be reduced in accordance with the applicable code provisions.

(2) First floor refers to the lowest floor level of the building.

Deflection Criteria

- The deflections of structural framing members shall not exceed the deflection limits set forth in CBC section 1604A.3.1.

Seismic Design Criteria

- The structure and its components shall be designed and constructed to resist the effects of earthquake loads as determined by CBC 2022, Section 1613A. The seismic design shall provide the following information found in CBC 2022, ASCE 7-16, or the project geotechnical report:
 - Risk Category: III
 - Site Class: C
 - Mapped Spectral Response Acceleration, S_s and S_1 : 1.005g and 0.369g
 - Spectral Response Coefficients S_{DS} and S_{D1} : 0.804g and 0.369g refer to ASCE 7-16 Section 11.4.5
 - Seismic Design Category: Per CBC Section 1613A.2.5
 - Basic Lateral Force Resisting System and Response Modification Factor, R
 - Seismic Response Coefficient, C_s
 - Design Base Shear
 - Analysis Procedure used
- The values above are based on a latitude/longitude of 33.2100 and -117.3633. These values should be verified during the actual design.

Wind Design Criteria

- Risk Category: III
- Basic Wind Speed (3-Second Gust): 102mph to be verified with Building Department
- Exposure Category: C

Foundation Design

- The foundation system shall be designed based on the recommendations of the Geotechnical Report and criteria noted below.
 - Report Title: Preliminary Geotechnical Investigation
Proposed Jefferson Middle School Modernization
823 Acacia Ave
Oceanside, CA
 - Dated: January 13, 2021 (Final report pending)
 - Allowable Soil Bearing Pressure: 2,500psf
 - Coefficient of Friction: 0.30
 - Passive Earth Pressure: 250pcf
 - Minimum footing depth below grade: 24"
 - Maximum footing depth below grade: Coordinate with Civil over-ex requirements below footings
- At MPR/Gym south and west sides near new retaining walls, bottom of footings shall be lowered as necessary to not surcharge walls.

Slab on Grade Design

- Interior slabs on grade shall be the more restrictive of a minimum of 5" thick with #4 bars at 18"oc each way as set forth in the Geotechnical Report, minimum District standards, or as required by engineering analysis for the specific use.

Minimum Material Strengths

- New MPR/Gym and VAPA Classroom buildings to be structural and/or light-gauge steel construction.
- Concrete (Footings, SOG, Walls, etc.) 3,000psi
- Reinforcing Steel (All Bar Sizes) ASTM A-615, Grade 60
- Structural Steel
 - Wide Flange Sections ASTM A-992, Fy = 50ksi
 - Channels, Angles, Plates & Misc Shapes ASTM A-36, Fy = 36ksi
 - Pipes ASTM A-53 Type E, Grade B, Fy = 35ksi
 - HSS Tube (Square, Rectangle) ASTM A-500, Grade C, Fy = 50ksi
 - HSS Tube (Round) ASTM A-500, Grade C, Fy = 46ksi
- Light Gauge Steel Studs ASTM A-1003, Grade 33/50

Deliverables

- The Design Build structural engineer shall submit structural calculations, specifications, and drawings according to the project schedule. Structural drawings, calculations and specifications shall be prepared and stamped and signed by a California registered professional Structural Engineer.

BASIS OF DESIGN: MECHANICAL DIVISION 23**MECHANICAL INTRODUCTION**

The mechanical approach for Jefferson Middle School aims to create ideal learning environments while balancing sustainability and the lifetime costs of mechanical systems to create the best long-term value for the District.

The mechanical systems are evaluated based upon the various functions within the included spaces. Products and applications will be in accordance with District standards, and applied to provide flexibility, durability, minimize maintenance and maximize usable life expectancy. The latest generation high efficiency rooftop package all-electric heat pump units with variable or multi-speed airflow will be used for all spaces within scope of work. All equipment of 3-tons and greater capacity should be provided with outside air economizers to further increase cooling efficiency and improve indoor air quality. Economizers allow the air conditioning units to introduce 100% outside air into the space when weather conditions are favorable. Dual-purpose direct-expansion coils will provide both heating and cooling for spaces, with limited electrical resistance heating to meet district goals to decarbonize HVAC systems and go fully electric.

This system selection provides alignment with ASHRAE recommendations for Covid-19 guidance to help reduce the spread of airborne pathogens within schools. Where equipment is provided with economizers the amount of outside air can increase by providing a higher air change rate within the space. Economizers can also be used to flush spaces prior to and post occupancy. Facility managers and technicians can quickly implement or modify ventilation strategies as needed through the Energy Controls and Management System. Air filters used are MERV-13 efficiency and located within the rooftop equipment for ease of maintenance.

APPLICABLE CODES AND STANDARDS*OUSD Applicable Standards*

- Applicable Codes
 - 2022 Building Standards Administrative Code, Part 1, Title 24 C.C.R.
 - 2022 California Building Code (CBC), Part 2, Title 24 C.C.R. (UBC with Amendments)
 - 2022 California Electrical Code (CEC), Part 3, Title 24 C.C.R. (NEC with Amendments)
 - 2022 California Mechanical Code (CMC), Part 4, Title 24 C.C.R. (UMC with Amendments)
 - 2022 California Plumbing Code (CPC), part 5, Title 24 C.C.R. (UPC with Amendments)
 - 2022 California Fire Code, Part 9, Title 24 C.C.R. (UFC with Amendments)
 - 2022 California Referenced Standards, Part 12, Title 24 C.C.R.
 - 2022 Title 19 C.C.R., Public Safety, State Fire Marshal Regulations.

Applicable Standards

- ANSI American National Institute Standards
- IEEE Institute of Electrical and Electronic Engineers
- ASHRAE American Society of Heating, Refrigeration, and Air Conditioning Engineers
- NEMA National Electrical Manufacturer's Association
- UL Underwriter's Laboratories
- ADA Americans with Disabilities Act
- NFPA National Fire Protection Association
- SMACNA Sheet Metal and Air Conditioning Contractors' National Association
- TABB Testing, Adjusting, and Balancing Bureau
- AABC Associated Air Balance Council

MECHANICAL SCOPE OF WORK (237413)

- Work includes the furnishing and installation of new heating, ventilation, and air conditioning (HVAC) systems to serve the existing buildings All materials will be new. The work will include, but not be limited to, the following principal items:
 - New Carrier brand rooftop packaged heat pump units model 50GCQ or newer, with direct-expansion cooling and heating coils, air-side economizers, and multi-stage or variable capacity controls. Condenser and evaporator coils shall be factory coated with anti-corrosion phenolic or similar material, field application is not acceptable. Zoning plan is provided. Units will be located on the roof near or above each space served.
 - All rooftop package units 3 tons and above shall be provided with MicroMetl Economizers with modulating power exhaust.
 - Gymnasium HVAC unit shall be specified with Carrier Humidi-Mizer or similar factory option by other manufacturers that provides a greater level of dehumidification through sub-cooling and hot gas reheat.
 - Only the Classroom building will be served by Carrier split system heat pumps model RAV for capacities up to 4-tons. For classrooms and areas requiring capacity of 5-tons use model 38MURA/40MUAA.
 - Classroom building HVAC condensing units will be located outdoors on grade within a protected enclosure. Indoor units are horizontal, ducted and located above the ceilings.
 - Ventilation for classroom buildings will be obtained through roof vents such as Greenheck model GRS and will be curb mounted. Size ventilation for 15 CFM per person, based on 30 occupants per classroom using 12" round duct with volume damper for balancing return and outside air.
 - Relief air for each classroom shall use the same concept, ducted ceiling grille to roof vent. Maintain 10 feet minimum spacing from all vents. Relief vents are sized for 400 feet per minute based on throat area. Typical duct sizes shall be 14" round and ceiling grille to match.
 - All HVAC equipment shall use R454B refrigerant or equal as mandated for all manufacturing starting 2025. Model numbers above may change with new refrigerant models but equivalency shall be applied.

- Rooftop exhaust fans will be provided as needed for janitors' closets, restrooms, and other spaces requiring exhaust.
- All spaces will receive heating, ventilation, and air conditioning or exhaust with transfer air as needed, no exceptions.
- Electrical, LAN, IDF and MDF Rooms shall be served by air conditioning split systems with above ceiling suspended DX fan coil units in the space and condensing unit on the roof. Condensing units shall be factory coated with anti-corrosion material. Manufacturer shall be Carrier.

MECHANICAL MATERIALS (233113, 23300, 232423)

- Ductwork systems shall be galvanized steel constructed in accordance with latest version of SMACNA Guidelines and the California Mechanical Code. Round duct shall have minimum gage thickness of 26 and rectangular a minimum gage of 24.
- Duct sizing shall be based on 0.08" w.c. per 100' unless otherwise required in the acoustical consultant's basis of design for each space.
- Insulation: 1-1/2" duct wrap shall be used on all supply and return ductwork unless internal liner is used for sound reduction. Use internal liner for the first 10 feet from each rooftop air conditioning unit and 6 feet for Fan Coil units unless otherwise required by acoustical engineer. This applies to both supply and return air ducts. Sizes of lined ductwork indicated on drawing represent the sheet-metal size with lining indicated as needed (1L or 2L).
- Except for open ceiling spaces, all return air systems shall be ducted.
- Final termination of duct to diffusers, registers and grilles within T-bar ceilings shall be made using flexible duct not to exceed 5'-0" in length.
- Manual volume dampers shall be installed for each diffuser, grille, and register, located upstream of the terminal device to minimize turbulence and noise. Access panels are required where dampers are not readily accessible.
- All new classroom areas shall use overhead supply diffusers and return/exhaust grilles mounted in the ceiling or walls. Ceiling supply diffusers shall be square plaque type. Return/exhaust grilles shall be perforated face with round neck.
- Exposed ceiling spaces shall have supply and return registers on the ductwork.
- All diffusers, registers and grilles shall be selected 5 NC less than the space Noise Criterion.
- Air distribution shall be manufactured by Krueger, Price or Titus. Basis of design is Price SPD steel plaque face ceiling diffusers for classrooms, SMCD square face diffusers for non-classrooms, and Price 535 for all return air grilles.
- Exhaust airflow rate for occupancy space will be designed according to 2022 CMC, Chapter 4, Section 403.7 and Table 403.7.
- General exhaust fans shall be roof mounted, spun aluminum, low speed, low noise, up-blast, direct drive type with EC motors and speed controllers. Fans will be enabled by the BAS and operate intermittently via occupancy sensors.
- Acceptable exhaust fan manufacturers shall be Loren Cook Company, Greenheck, and Twin City.

MECHANICAL EQUIPMENT GENERAL DESIGN CRITERIA

- Heat gains and losses to the exterior will be calculated using ASHRAE outdoor design conditions at frequency levels of 0.5% for summer dry bulb and wet bulb temperature and 0.6% for winter dry bulb temperature. Select all air conditioning equipment for 5 degrees higher than the below summer conditions. The HVAC System design is based on the following climatic conditions:

Outdoor Temperatures	Carlsbad, CA	
	Dry Bulb	Wet Bulb
Summer	83°F	67°F
Winter	38°F	N/A

- Indoor Space Conditions:

SPACE	Occupied		Design Air Temperature Setpoints (°F) Scheduled Unoccupied Period		Design Air Temperature Setpoints (°F) Standby Period	
	Cooling	Heating	Cooling	Heating	Cooling	Heating
Stage	74±2	70±2	OFF	OFF	85±2	60±2
Gym	74±2	70±2	OFF	OFF	85±2	60±2
Kitchen	78±2	68±2	OFF	OFF	N/A	N/A
Offices/Admin	74±2	70±2	OFF	OFF	85±2	60±2
Storage	78±2	68±2	OFF	OFF	88±2	60±2
Restroom Janitor Rooms	78±2	70±2	OFF	OFF	N/A	N/A
Electrical Rooms	90 Max	N/A	N/A	N/A	N/A	N/A
IDF & MDF Rooms	76 Max	N/A	N/A	N/A	N/A	N/A

- Occupancy Schedule: 7am to 7pm five days per week, with anticipated occasional intermittent occupancy on nights and weekends. Electrical Rooms, tablet storage rooms, dimmer rooms, and IT rooms shall be provided with 24-hour continuous air conditioning.
- Occupancy Sensors: Where occupancy sensors are provided, they will be used to reset each space served by a rooftop package unit to the Unoccupied schedule above.
- Electrical, IDF, MDF, Elevator Machine Rooms: Temperatures for these spaces shall be according to the above schedule unless otherwise required by the specific equipment or the engineer’s requirements.
- Lighting and Equipment Loads
 - In general, the following lighting and equipment loads are included in the design of the air conditioning system:
 - Classroom general lights: maximum 0.7 watts/sq. ft.
 - Office general lights: maximum 0.7 watts/sq. ft.
 - Receptacles: 0.5 watts/sq. ft.
- Equipment: Any areas with specialty equipment load will be verified with product manufacturer where possible or similar equipment will be used.

VENTILATION STANDARDS

- Outside air ventilation rates for provided to occupied spaces will be designed in accordance with the 2022 Title-24, Part-6.
- Outside air intake is introduced at the rooftop package unit through the economizer accessory.
- Economizers will used Fault Detection and Diagnostics (FDD) and use dry bulb option for high limit cutoff control will be used.
- For equipment larger than 3 tons capacity modulating power exhaust economizers for minimum ventilation relief and 100% air relief will be provided.

NOISE CONTROL

- Rooftop HVAC units will be provided with vibration isolation curbs by Canfab or MW Sausse.
- Supply and return ductwork from air conditioning units shall be provided with internal acoustical lining.
- Connections to ceiling diffusers and grilles shall be acoustical flexible duct between the branch duct and supply diffusers.

ENVIRONMENTAL CONTROL AND ENERGY MANAGEMENT SYSTEMS FOR NEW BUILDINGS (230900)

- A Building Automation System shall be provided in compliance with OUSD Standards. Manufacturer shall be Carrier iVu. No other manufacturers will be considered.
- The BAS shall have remote monitoring and control capability. A local human interface workstation shall be provided on site and be rack mounted type.
- The BAS shall be a wired system.

TESTING, ADJUSTING, AND BALANCING (230593)

- Air test and balance report by an independent Test and Balance Contractor (TAB) that is AABC or NEBB certified.
- Air leakage testing is not required for newly installed duct systems.
- TAB shall perform air balance of all economizers and each speed and CFM level that includes cooling minimum and maximum, heating minimum and maximum and any DCV setpoints.
- TAB contractor shall participate in related commissioning testing including space pressurization door closure adjustments.
- TAB contractor shall adjust fan speeds and balance airflows to within 10% of specified airflows.

END OF BOD

BASIS OF DESIGN: ELECTRICAL DIVISION 26

INTRODUCTION

The Jefferson Middle School electrical approach aims to provide robust electrical system for the new MPR/Gym/Storage Building and VAPA/Science Building.

The design shall make every effort to carefully understand OUSD's goals for this project to provide an aesthetically pleasing, sustainable, and functional solution.

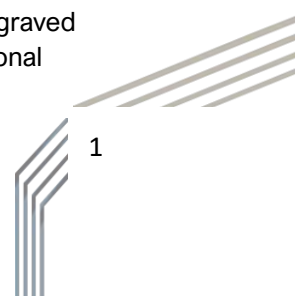
The following is a description of the electrical design approach.

APPLICABLE CODES AND STANDARDS

- Applicable Codes
 - 2022 Building Standards Administrative Code, Part 1, Title 24 C.C.R.
 - 2022 California Building Code (CBC), Part 2, Title 24 C.C.R. (UBC with Amendments)
 - 2022 California Electrical Code (CEC), Part 3, Title 24 C.C.R. (NEC with Amendments)
 - 2022 California Mechanical Code (CMC), Part 4, Title 24 C.C.R. (UMC with Amendments)
 - 2022 California Plumbing Code (CPC), part 5, Title 24 C.C.R. (UPC with Amendments)
 - 2022 California Fire Code, Part 9, Title 24 C.C.R. (UFC with Amendments)
 - 2022 California Referenced Standards, Part 12, Title 24 C.C.R.
 - 2022 Title 19 C.C.R., Public Safety, State Fire Marshal Regulations.
- Applicable Standards
 - ANSI American National Institute Standards
 - IEEE Institute of Electrical and Electronic Engineers
 - NEMA National Electrical Manufacturer's Association
 - UL Underwriter's Laboratories
 - ADA Americans with Disabilities Act
 - NFPA National Fire Protection Association

ELECTRICAL DISTRIBUTION

- Each respective new building shall be provided with a feeder from the existing main distribution switchboard sized for the electrical load of that building including future expansion. The main distribution switchboards at each respective new building shall be provided with multifunctional digital meters with true RMS measure amperes, volts, power factor, VA VAR, watts, KWH, KVARH, voltage/current unbalance and demand metering.
- Switchboards, panelboards, transformers, etc. shall be manufactured by Schneider -Electric, Eaton, GE or equal.
- Provide a minimum 3" high housekeeping pad above finished floor/finished grade for all floor-mounted switchboards, distribution boards, transformers, etc. Confirm pad dimensions with local inspector prior to forming pad to ensure any local code interpretations/conditions are met regarding housekeeping pads.
- Nameplates shall be provided for switchboards, distribution boards, distribution panels, panel boards, transformers, disconnect switches, enclosed circuit breakers/switches, lighting control panels, fire alarm/central monitoring terminal cabinets/power supplies/control panels, and all low voltage system terminal and control cabinets.
- Identification nameplates shall be laminated/extruded modified acrylic that is 3/32" thick, UV-stabilized, matte finish, suitable for use in 180 deg. F ambient, with beveled edges and engraved white letters 3/8" high, minimum, on 1-1/2" high black background (utility/normal and optional



standby power systems) for single line of text. Where two lines of text are required, provide minimum 2" high nameplate. Where three lines of text are required, provide minimum 2.5" high nameplate.

- Nameplate inscriptions shall be identical to the equipment designations indicated in plans and specifications. Nameplates shall be engraved with the device designation/identification on the top line, source identification for the device on the 2nd line per CEC, Art 408.4 and load designation for the device on the bottom line. Where load designation consists of a branch circuit, omit bottom line. Where device designation is not indicated on plans/specifications, Contractor shall submit a written clarification request to the Engineer.

Example: Transformer 1TA

Source Disconnecting Location: Switchboard MSA located in Rm 110

Load: Panels 1LA and 1 LB

- Load segregation of lighting, HVAC, and charging stations for electrical vehicles shall be provided to comply with 2022 California Energy Code. Lighting, HVAC, power, and electric vehicle charging shall be served by separate panels which allows them to be metered independently.
- For each private office, open office area, reception, conference, kitchenette, and copy rooms; both controlled and uncontrolled receptacles shall be provided to comply with 2022 California Energy Code requirements.
- HVAC and Plumbing Equipment: Large equipment such as the air handling units shall be served directly from the building's main distribution switchboard.
 - 480/277V 3-phase 4-Wire Panel boards shall be provided near the large mechanical equipment at the nearest electrical room
 - 208/120V 3-phase 4-Wire Panel boards shall be provided for control circuits, VAV units, exhaust fans, and any other smaller mechanical equipment loads.
- All power wiring shall be in conduit or raceways. Utilize rigid steel conduit at all exterior locations and where subjected to damage or water intrusion. Electrical Metallic Tube (EMT) is allowed for all interior concealed applications. Exposed EMT may be used only in equipment rooms, above eight feet in mechanical/electrical rooms or similar spaces. The use of flexible steel conduit is allowed only indoors where concealed. The use of liquid-tight flexible steel conduit shall be used for final connections to motors, vibrating equipment, and devices that require frequent adjustments of locations or interchange. Minimum conduit size shall be 3/4".
- All conductors shall be sized based on the ampacity tables in the California Electrical Code. Temperature rating of the conductor, future load growth, voltage drop, short circuit heating, number of conductors within the raceway, and ambient conditions shall be considered during design.
- A separate branch circuit shall be provided for general-purpose duplex receptacles in each classroom.
- Receptacles shall be specification grade, Decora style, generally NEMA 5-20R. GFCI receptacles shall be utilized within 6 feet of a sink, in all exterior locations, and where specifically required by CEC.
- Backboxes shall be used for interior and exterior equipment. Provide cover plates for all wiring devices and junction boxes, and special backboxes for equipment and applications as required. Obtain special backboxes with equipment when available.
- The maximum combined voltage drop shall not exceed five percent overall from the electrical service point to the point of utilization, with two percent maximum for feeders and three percent for branch circuit conductors.

- Branch circuit conductors shall be copper single conductors 600V rated with THWN or THHN insulation with continuous color coding. All conductors #8 AWG and larger shall be stranded. Minimum wire size shall be #12 AWG.
- All wiring shall be copper.
- Feeder conductors shall be copper single conductors 600V rated with THWN or THHN insulation with continuous color coding. Where continuous color coding is not available all feeders shall be color coded using color tape at all connections and in all pull and junction boxes. All feeders shall be installed in conduit. All feeder conductors shall be installed splice free unless conditions prohibit.
- Provide a separate green equipment ground conductor in all electrical raceways to effectively ground all fixtures, panels, controls, motors, disconnect switches, exterior lighting standards, and noncurrent carrying metallic enclosures. Use bonding jumpers, grounding bushings, lugs, busses, etc., for this purpose. Connect the equipment ground to the building system ground. Use the same size equipment ground conductors as phase conductors, up through #10 AWG. Use CEC Table 250.122 for conductor size with phase conductors #8 and larger.
- Power branch circuiting shall be minimum 20 amperes.
- Branch circuit and panel loads shall be balanced on all phases for panels and distribution.
- Building grounding system resistance to ground shall not exceed 25 ohms unless otherwise noted and shall be confirmed by testing.
- Furnish and install required number of 3/4" x 10' copper clad ground rods to meet specified resistance, all required grounding wires, conduit, and clamps. The size of the grounding conductors shall be not less than that set forth in the latest edition of the California Code of Regulations, Title 24, State of California, and CEC.
- Fittings for metallic conduits shall be compression-type steel or malleable iron.
- All conduits shall be supported independent of other systems and equipment and shall be supported with approved devices.
- Loads shall be balanced across all phases for all panels and switchboards.

INTERIOR LIGHTING

- Interior lighting for each space shall be in compliance with OUSD standards and Title 24 requirements.
- Illumination levels shall have maintained average foot-candle levels on the task plane at levels required by I.E.S. and as noted:

Interior Spaces:	Average Foot Candles
General Classrooms	30-50
Science and Technology Classrooms	30-50
Shops and Drafting Classrooms	50
Library	30
Custodial Rooms	20
Offices	30-50
Corridor/Stairways (1 FC min. Emergency)	10
Restrooms	10
Machinery and Equipment Rooms:	50
Gymnasium	50
Kitchen	50

- Classroom Lighting systems shall be an integrated combination of daylighting and LED lighting, providing energy conservation through lighting controls. Typical classrooms shall consist of three rows of recessed 2’x4’ direct/indirect lighting fixtures parallel to the window wall. A whiteboard lighting fixture shall also be provided at the teaching wall.
- The lighting uniformity shall not exceed 2.5 max/min for desktop or 12 max/min on ceilings.
- Teaching walls and whiteboards shall have a 30fc minimum and 40fc maximum.
- Point by point lighting calculations for normal and emergency conditions shall be provided to demonstrate light levels on all room surfaces graphically.
- Offices shall have recessed mounted 2’x4’ direct/indirect LED fixtures.
- Corridors shall have recessed or surface mounted LED fixtures.
- Restrooms shall have surface mounted or recessed vandal resistant LED fixtures.
- Mechanical and Electric rooms shall have industrial surface mounted strip light fixtures with wire guards.
- LED exit signs shall be provided at exits and along the path of egress.
- Path of egress shall maintain a minimum of 1fc to each building exit and 10fc at exit point landings. Fixtures designated as emergency along the path of egress shall utilize emergency battery packs and maintain operation for a minimum of 90 minutes.
- Lighting branch circuiting shall be minimum 20 amperes.
- Branch circuit and panel loads shall be balanced on all phases for panels and distribution.
- Lighting panel boards shall be 480/277V 3-phase 4-wire with thermal magnetic bolt-on type circuit breakers. 30% spare capacity shall be provided in all new panel installations.
- Lighting power density shall at minimum be 5% below California Title 24 requirements.

EXTERIOR LIGHTING

- Exterior lighting at each building shall be in compliance with IES and Title 24 requirements.
- Safety and security lighting shall be provided on exterior walls for buildings, building entrances, and where needed to meet specific project requirements.
- Light fixtures shall be installed to avoid spilling light onto adjacent properties.
- Exterior lighting fixtures and controls located in exposed locations shall be vandal resistant and as high and out of reach as practical.
- Emergency lighting shall be provided at all building entrances with a minimum runtime of 90 minutes.

Exterior Spaces	Average Foot Candles
Building Exterior (Walks, General Areas)	2
Exterior Corridors (Covered Walks)	10
Parking Lots	1 min.
Safe Dispersal Area	1
Pathway to Safe Dispersal Area	1

LIGHTING CONTROL SYSTEM

- Provide a networked central lighting control system that covers all areas designated in the school. Provide a main pathway from the main lighting control panel to the school's local area network for remote management of all lighting control panels.
- The lighting control system shall be equipped with a demand response feature in compliance with California Energy Code and capable of being controlled by the campus energy management system.
- All interior light fixtures shall have automatic shutoff controls via occupancy/vacancy sensors where required by code.
- Exterior fixtures shall be capable of 365 day time clock control coordinated with campus existing time clock schedule to coordinate with summer, holiday schedules, and special events.
- A photocell mounted on the roof shall be used to control exterior lighting when daylight is not available due to cloud cover during the day and override the time clock as needed.
- Where daylight in interior spaces is available, provide daylight sensors for optimally reducing light levels within the space. Lighting shall reduce uniformly and not reduce lighting below the required light level for the room. Comply with California Energy Requirements.
- The emergency lighting system shall be UL listed to allow bypassing of manually operated switches, dimmers, occupancy controls, and occupancy sensors during power failure situations, the design shall comply with all applicable codes and standards.
- Manual controls shall not override daylight sensors.
- Exterior lighting shall have integral motion sensors where required by code.

FIRE ALARM SYSTEM

- The buildings shall be protected by an automatic addressable voice evacuation fire alarm system utilizing manual pull stations, water flow detection, speakers, visual devices, and area smoke, carbon monoxide, and heat detection where required.
- Applicable Codes and Standards:
 - 2022 California Building Code (CBC)
 - 2022 California Fire Code (CFC)
 - CHPS – Collaborative for High Performance Schools
 - NFPA 72, National Fire Alarm and Signaling Code 2019 Edition, as amended by California.
- The new Voice Fire Alarm System (FAS) shall be a microprocessor-based, fully field-programmable, electrically supervised, digital addressable system.
- A digital communicator will be provided in the fire alarm control panel for communication with the Campus central monitoring station. The new fire alarm control panel will match the existing system on the Campus.
- The fire alarm control panel will be interconnected with the existing main fire alarm control panel.
- The Voice Fire Alarm System (FAS) shall be complete, including but not limited to, the following:
 - Networked Fire Alarm Control Panels (FACP), quantity as required. FACP(s) shall be located in a secure location.
 - Manual FAS devices: addressable pull stations, quantity and located as required.
 - Automatic FAS devices: addressable area smoke detectors, addressable duct-mounted smoke detectors, and addressable heat detectors; quantity and located as required.

- Auxiliary FAS devices: addressable monitor modules, addressable relay modules, and addressable control modules; quantity and located as required. Modules shall be used for monitoring of related auxiliary system devices, i.e., sprinkler system water flow and valve tamper switches, and for connections to auxiliary system interfaces.
- FAS alarm devices: audible alarm speakers, visual alarm strobe lights, combination speaker/strobe devices; quantity and located as required.
- Detectors and notification devices shall be installed to comply with all current applicable codes, standards, and requirements.
- Occupant notification shall be via audible and visual notification appliances connected to notification appliance circuits.
- Occupant audible notification shall be via emergency voice alarm speakers throughout the facility and shall use FAS amplifiers and speakers to broadcast audible notification of system alarms. FAS shall provide sufficient quantity of speakers to ensure adequate coverage: public mode threshold in public areas, and private mode (staff-alerting) threshold in private mode areas.
- Occupant visual alarm notification shall be via appliances (strobe alarm lights) throughout the facility. Strobe alarm lights shall comply with ADA and NFPA requirements for installation, spacing, and light intensity. Strobe alarm lights shall be located per DSA, CBC 907 and CFC 907.
- Each fire alarm control unit, power extender, supervising station transmitter, and similar components shall be protected by local smoke detection.
- The Fire Alarm System (FAS) wiring shall conform to NEC Article 760 and to the manufacturer's wiring specifications. Installation shop drawings shall define the exact FAS wiring requirements for all components and devices.
 - The FAS wiring shall be FPL type, installed in dedicated Fire Alarm conduit; minimum acceptable size shall be 3/4", unless otherwise noted on the drawings. Conduit shall be fastened and secured in proper and approved manner. Contractor shall provide conduits for all devices installed in exposed or concealed locations, e.g. surface-mounted devices, or inside finished walls. Location of all wiring shall be indicated on the as-built drawings. Conduit shall be visibly marked "FA" or painted red; all system backboxes and covers shall be painted red. All wiring shall be UL-Listed for the intended application.
- All wiring shall be as defined in NFPA 72 Chapter 12 – Circuits and Pathways.
 - Pathway Class for circuits shall be designated based upon functional importance, evacuation zone arrangement and risk of failure.
- System grounding shall be per the manufacturers' recommendations. Grounding of alarm panels and associated circuits shall comply with CEC Article 250 and IEEE 1100.
- The FAS shall be monitored for all alarm, supervisory, trouble, and system status conditions. Alarm, trouble, and supervisory signals shall be transmitted to the existing main fire alarm control panel in conformance with DSA requirements and NFPA Standards.
- All equipment shall be installed per manufacturers' listings and recommendations.
- Provide fiber optic cables between the new control panel and the existing main fire alarm control panel.
- Fire alarm system manufacturer shall be Notifier.

END OF BOD

BASIS OF DESIGN: PLUMBING DIVISION 22

INTRODUCTION

The Plumbing approach for Jefferson Middle School aims to provide robust plumbing piping and fixture infrastructure for the proposed buildings. The campus domestic water is served by the Oceanside water department. Water main is to remain and operational during construction as to not inhibit school function during construction of the new and existing buildings. The scope includes new modular classroom and MPR-Kitchen buildings.

The design shall make every effort to carefully integrate the requirements of the Oceanside Unified School District (OUSD).

The following is a description of the Plumbing design approach.

APPLICABLE CODES AND STANDARDS 2022

OUSD Applicable Standards

- 220500 Common Work Results for Plumbing
- 220519 Meters Gages for Plumbing Piping
- 220523 General Duty Valves for plumbing Piping
- 220529 Hangers and Supports for Plumbing Piping and Equipment
- 220553 Identification for Plumbing Piping and Equipment
- 220719 Plumbing Piping Insulation
- 221110 Facility natural-gas piping
- 221116 Domestic Water Piping
- 221119 Plumbing Specialties
- 221316 Sanitary Waste and Vent Piping
- 221413 Storm Drainage Piping
- 223300 Electric Water Heaters
- 223400 Fuel fired domestic water heater.
- 224000 Plumbing Fixtures

Applicable Codes

- 2022 Building Standards Administrative Code, Part 1, Title 24 C.C.R.
- 2022 California Building Code (CBC), Part 2, Title 24 C.C.R. (UBC with Amendments)
- 2022 California Electrical Code (CEC), Part 3, Title 24 C.C.R. (NEC with Amendments)
- 2022 California Mechanical Code (CMC), Part 4, Title 24 C.C.R. (UMC with Amendments)
- 2022 California Plumbing Code (CPC), part 5, Title 24 C.C.R. (UPC with Amendments)
- 2022 California Fire Code, Part 9, Title 24 C.C.R. (UFC with Amendments)
- 2022 California Referenced Standards, Part 12, Title 24 C.C.R.
- 2022 Title 19 C.C.R., Public Safety, State Fire Marshal Regulations.

Applicable Standards

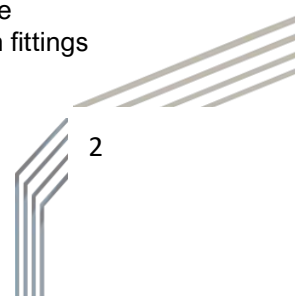
- ANSI American National Institute Standards
- IEEE Institute of Electrical and Electronic Engineers
- ASHRAE American Society of Heating, Refrigeration, and Air Conditioning Engineers
- ASPE American Society of Plumbing Engineers
- NEMA National Electrical Manufacturer's Association
- UL Underwriter's Laboratories
- ADA Americans with Disabilities Act
- NFPA National Fire Protection Association

PLUMBING SCOPE OF WORK

- Work includes the furnishing and installation of new plumbing systems and fixtures to be provided to serve the new buildings as indicated in the architectural documents and outlined herein, and in the Advanced and Concept Documents prepared by the Architects and Engineers. All materials will be new. The work will include, but not be limited to, the following principal items:
 - All new plumbing fixtures and equipment for all new building such as classrooms, library, and kitchen shall comply with the applicable codes listed above.
 - Soil, waste, vent and Industrial or Lab waste and Vent piping systems. (Lab waste if applicable).
 - Domestic hot and cold water and tempered water piping systems. (Tempered water if applicable).
 - Primary roof and overflow drain, and storm drain piping systems.
 - Sleeves, hangers, and brackets for piping systems. Provide special hangers to isolate transmission of sound and vibration from pipes and equipment.
 - Piping Testing.
 - Disinfection of potable water piping.
 - Piping insulation.
 - Extend water, waste and storm drain piping 5'-0" outside of new buildings. Final connections to site piping will be provided by Civil Engineer.
 - Install new electric water heater for all domestic hot water supply with circulating pump controlled by a timer and thermostat.
 - Install new grease waste piping for kitchen.
 - Install new grease interceptor below grade for the kitchen.

PLUMBING PIPING MATERIAL

- Domestic and industrial cold and hot water, and indirect drain piping above grade or slab will be type "L" hard drawn copper tubing with wrought copper or cast bronze solder type fittings. Joints in all copper water lines shall be soldered with lead-free solder.
- Domestic and industrial cold-water piping and indirect drain piping below grade or slab will be type "K" hard drawn copper tubing with wrought copper or cast bronze solder type fittings. Joints in all copper water lines shall be soldered with lead-free solder.
- Soil, waste, vent, industrial waste and vent piping and storm drain piping shall be service weight no-hub cast iron pipe and fittings with neoprene gasket and stainless-steel bands. Pipe, fittings, and couplings will conform to the standards contained in the cast iron soil pipe institute standard 301. Sewer vent shall be 10 ft from any building opening or outside air intake.
- Grease waste, vent piping shall be service weight no-hub cast iron pipe and fittings with neoprene gasket and stainless-steel bands. Pipe, fittings, and couplings will conform to the standards contained in the cast iron soil pipe institute standard 301. Sewer vent shall be 10 ft from any building opening or outside air intake.
- New condensate drain shall be copper pipe type "M" unless indicated on plans. Provide insulation for piping running above ceilings.
- Domestic hot water returns or hot water loop piping above grade or slab will be type "L" hard drawn copper tubing with wrought copper or cast bronze solder type fittings. Joints in all copper water lines shall be soldered with lead-free solder. Provide insulation for all hot water piping.
- Gas piping above ground will be schedule 40 black steel pipe and malleable iron fittings and screwed joints for 3 in. and smaller pipe. Gas pipe 4 in. and larger shall have welded joints.
- Gas piping below ground shall be PE2406 polyethylene pipe and fittings with electric fusion joints. Provide #12 electric tracer copper wire, spiral wrapped around the pipe. Polyethylene pipe installation shall be per the manufacturer's recommendations. Provide approved transition fittings where gas pipe enters each building.



PLUMBING FIXTURES GENERAL REQUIREMENTS

- New Plumbing fixtures or fittings intended to dispense water for human consumption which contain more than 0.25% LEAD are not permitted to be sold or installed anywhere within the State of California, 2022 CPC 604.0. These devices shall be listed to ANNEX G of NSF/ANSI 61-2008 or other approved testing standard. Evidence of compliance shall be presented to the Building Inspector upon request.
- Unless otherwise specified, all fixtures shall be “water saving” type and shall be roughed-in from certified fixture manufacturer’s “roughing-in measurement drawings.
- Fixtures will comply with the 2022 California Green Code as follows:

Fixture	Flow Requirement
Water Closets	1.28-gallons per flush.
Urinals	0.125-gallons per flush.
Lavatory Faucets	0.5-gallons per minute.

- Water closets will be specified with manual operated flush valves. ADA compliant where indicated on drawings. Manufacturer to be American Standard or Kohler.
- Urinals shall be wall hung, high efficiency, manual operated, flush valves. ADA compliant where indicated on drawings. Manufacturer to be American Standard or Kohler.
- Lavatory faucets shall be push-button, ADA metered, self-closing. Manufacturer to be American Standard or Kohler.
- Hose bibs shall be provided on roofs and around buildings at 75 ft. spacing. Except for rooftop locations. Hose bibs shall be provided with recessed boxes and locking covers. All hose bibs shall be provided with vacuum breakers. Manufacturer to be Acorn or Woodford
- All floor drains and floor sinks subject to infrequent use shall be provided with automatic trap primers. Manufacturer to be JR Smith, Zurn or Mifab.
- Provide floor drains in all mechanical and equipment rooms, shower and locker rooms and adjacent drying areas, custodian closets, student, and staff restrooms, and where water heaters are located. Where floor drains are provided, slope floor at 1/8” per foot toward drain or as required per Architectural plans.
- Floor sinks with trap primers are required for indirect waste at Boiler Rooms, Mechanical Rooms, Kitchens & Food Prep Areas, Water Heaters, and any area with equipment requiring drainage.
- Plumbing fixtures shall be “accessible” where indicated and where required per Title 24 or California ADA requirements and per CBC Division 6/11/B.
- Science classrooms, Preparation Rooms and Chemical Storage Rooms shall be provided with emergency shower/eyewash stations (where required).
- Plumbing fixtures shall meet the requirements of the Guidelines Specifications.
 - Water closets: vitreous china, floor mounted, flush valve with open-front seat.
 - Urinals: vitreous china, wall mounted, manual flush valve.
 - Lavatories in large toilet rooms: porcelain. Except specify stainless steel for restrooms open to the public after school hours and available for non-school sponsored activities.
 - Lavatories in single toilet rooms: porcelain. Except specify stainless steel for restrooms open to the public after school hours and available for non-school sponsored activities.

- Drinking Fountains: stainless steel, wall mounted with P-traps accessible with the fixture itself. Provide with bottle filling stations.
- Service Sinks: Enameled cast-iron or stainless steel, floor type.
- Floor Sinks: Enameled cast-iron with bottom dome strainer and partial grate.
- Floor Drains: Coated cast-iron with nickel bronze/stainless steel grate and trap primer connection. Where provided, slope floor at 1/8" per foot toward drain.
- Roof and Overflow Roof Drains: Coated cast-iron bodies with cast-iron domed strainers.
- Hose Bibs: Recessed, stainless steel with locking door on building exterior and in toilet rooms.

DOMESTIC COLD WATER

- The domestic cold-water supply will be provided to each new building from the on-site domestic water distribution system provided under the civil scope of work. Each new building will be provided with an isolation valve. Where pressure exceeds 80 psi, pressure regulation valves shall be provided.
- Domestic water will be distributed to all plumbing fixtures, hose bibs and mechanical equipment make-up water connections.
- Groups of plumbing fixtures served by a domestic water header shall be provided with a shut-off valve and access panel on the header.
- Each plumbing fixture and hose bib shall be provided with an isolation valve.
- Each set of restrooms shall be provided with a wall mounted isolation valves and access panel on the main water supply within the restroom.
- Water hammer arrestors will be provided at all branch lines to multiple fixtures containing flush valve fixtures, quick closing faucets or valves.
- Air eliminators shall be provided at the high points of domestic water systems.
- Domestic cold-water sizing shall be based on hydraulic calculations and not to exceed 5 ft. per second maximum velocity. A minimum of 25 psi shall be provided at all flush valve water closets and urinals.
- Cold water connections to mechanical equipment or other connections susceptible to contamination shall be provided with reduced pressure principal backflow preventers.

DOMESTIC HOT WATER

- Where practical, centrally located storage tank type, electric water heaters will be provided at new building to supply domestic hot water. Hot water equipment shall be designed with approximately 10% extra capacity due to aging effects and for future flexibility.
- All domestic hot water systems shall be 100% circulated with the re-circulation pump controlled by a programmable 7-day time clock and interlocked with the BMS.
- Circulating Pumps shall be in-line type.
- Hot Water Heaters shall be manufactured by Bradford white or A.O. Smith. Do not locate water heaters in ceiling spaces or attic.
- All hot water and hot water return piping shall be insulated in accordance with Title 24 requirements.
- All emergency eyewash and showers shall be provided with tempered water per ANSI/ISEA Standard Z358.1 at 60-100 degrees. (If required).
- Groups of plumbing fixtures served by a hot water header shall be provided with a shut-off valve and access panel on the header.
- Each plumbing fixture shall be provided with an isolation valve.
- Each set of restrooms shall be provided with a wall mounted isolation valves and access panel on the main water supply within the restroom.

- Mixing valves set with a maximum temperature of 120 deg. F and meeting ASSE 1070 shall be provided on hot water supply to all public use lavatories.
- Domestic hot water sizing shall be based on hydraulic calculations and not to exceed a maximum friction loss of 3 psi/100 ft. or 5 ft. per second maximum velocity, whichever restriction is greater.
- Public lavatory faucets shall be set to provide a maximum temperature of 110 deg. F. Student restrooms and general classrooms shall be provided with cold water only.

SOIL, WASTE, GREASE WASTE, VENT, INDUSTRIAL OR LAB WASTE AND VENT SYSTEMS NEW BUILDINGS

- The sanitary waste and vent system will be designed to accommodate the requirements of the project in the most direct and straightforward manner possible, in an effort to limit the amount of horizontal piping overhead or within ceiling spaces.
- The systems will include connections to all Plumbing fixtures, floor drains with trap primers in all toilet rooms, floor sinks and roof receptors provided for indirect waste discharge from mechanical equipment. Piping will be sized in accordance with the requirements of the 2022 CPC.
- The horizontal sanitary waste system will be sloped at minimum 2% unless building conditions dictate otherwise and collected below the ground floor and extended to 5'-0" outside of the building and be connected under the Civil Section to site sewer.
- Sanitary vents through roofs shall terminate a minimum of 10 ft. away from any roof openings or outside air intakes.
- A pre-cast concrete, below ground grease interceptor equal to Jensen PreCast shall be provided at the kitchen building for all grease producing fixtures and equipment including but not limited to 3-compartment sinks, hand sinks, floor drains, floor sinks, prep sinks and mop sinks. Grease interceptor vent shall not interconnect with vents of other plumbing systems. Grease interceptor shall be located and installed where easily accessible for cleaning and inspection. Sample box shall be installed as required. Minimum size of unit to be determined by table 1014.3.6, 2022 CPC.
- Plaster traps shall be provided below sinks in Art Classrooms. (if required)
- No chemical vent shall interconnect with vents of other plumbing systems.
- Provide full size cleanouts above all urinals, lavatories, upper terminal water closets, drinking fountains, bottle fillers and sinks. Cleanouts above lavatories are to align with the centerline of the fixture and be no higher than 6" above the backsplash. Provide cleanouts to grade in yard box at upper terminal within 5 feet of building line connection and every 100 feet or change in direction over 90 degrees.
- Hub drains with electronic trap primers shall be provided in coordinated locations for fire sprinkler system drainage.

RAINWATER SYSTEM

- The storm drain systems for each new building will be designed to integrate with the architectural design while maintaining other space and programmatic criteria. Pipe sizing will be in accordance with the chapter 13 of the 2022 CPC for a rainfall rate of 2 inches per hour.
- Roof drains and overflow roof drains will be piped independently and routed down through the building. Overflow roof drains shall daylight in observable locations either through exterior walls or through adjacent curb faces. Provide with downspout cover. Manufacturer to be JR smith, Zurn or Mifab.
- Uncovered Trash Areas shall be provided with a special area drain system that normally drains water to the storm drain system but diverts water to sewer when the trash containers are being washed, using a special diversion valve system. Manufacturer to be JR smith, Zurn or Mifab.

ODOR MITIGATION

- Seal all no-hub joints with an approved sealant.
- Terminate all vents as far away as practical from outdoor air intakes and openings into the buildings. The prevailing wind direction shall be verified, and the vents shall be located downstream of the outdoor air intakes.
- Vent terminations shall be a minimum of 6 inches higher than the top of roof within 10 ft of parapet. Vents shall not terminate within the parapet enclosure.

GAS SYSTEM

- Gas meter to be coordinate and installed per the requirement of the SDG&E Gas Company. The new gas meter shall be sized per the gas demands. Existing gas meter to be relocated to SE corner of existing building H.
- All new on-site campus gas distribution piping shall be provided at minimum design pressure of 5 psi.
- Existing gas pipe serving existing Building N to be reconnected to new gas pipe system.
- At each building provide a gas pressure reducing valve to reduce the gas pressure inside the building to 11-inch water column prior to connection to equipment.
- A building isolation valve and earthquake actuated seismic shut-off valve will be installed on the gas service to each building.
- Gas piping will be distributed inside the new buildings and connected to all gas-fired equipment.
- Provide emergency gas shut-off valves at all Science Classrooms (if applicable).
- Routed a minimum 1" gas pipe with associated shut-off cock and sediment trap to relocated food Kiosks. Confirm final location with Architectural and landscape plans.

END OF BOD

BASIS OF DESIGN: AUDIO VISUAL -DIVISION 27

AUDIO VISUAL INTRODUCTION

Ground Floor

- MPR
 - Ceiling mounted Projector with scissor lift
 - Wall mounted touch panel control.
 - Wall mounted audio input/output panels.
 - Wall mounted HDMI input panels.
 - Wall mounted speakers on each side of stage.
 - Ceiling Speaker for delays.
 - Floor mounted AV Rack with all accessories and Thermal management.
 - Audio DSP with Dante.
 - Amplifiers with Dante.
 - Wire and wireless presentation package.
 - Cable package.
 - Power conditioning.
 - ALS system
 - AV matrix switch 6 x 4.
 - Antennas for wireless and ALS.
- Conference Room
 - Wall mounted Display
 - Table mounted touch panel control.
 - Table mounted audio input/output panels.
 - Table mounted HDMI input panels.
 - Floor box with connections to AV Rack.
 - AV Rack with all accessories and Thermal management.
 - Audio DSP with Dante.
 - Amplifier with Dante
 - Wall mounted Soundbar with Camera and Microphone array.
 - BYOM Device

END OF BOD

BASIS OF DESIGN: TECHNOLOGY DEVISION 28

INTRODUCTION

The Jefferson Middle School Low Voltage and Technology Systems approach aims to provide robust technology infrastructure for the proposed new buildings and future campus needs, while preserving technology systems and infrastructure for buildings that are not being modernized.

The campus MDF (Main Distribution Frame) is in the Library Building. The MDF is the head end for the campus Data LAN, WLAN, and Digital Telephone system. Bldg. A is also the head end for the campus PA (Public Address), Wireless Synchronized Clock System and Intrusion Detection system. The existing campus MDF and service provider MPOE (Min. Point of Entrance) will be re-located to the remodeled Library-Classroom Building under another project.

The project design for new Gym, Admin, Classroom Bldgs., and associated site work shall meet OUSD requirements as detailed in the latest District Division 27 & 28 “Specifications” and other applicable code or standards documents.

In addition, the low voltage and technology devices in existing school buildings that are affected by the new construction (i.e., new or restored underground conduit and wire to an existing building) shall be re-connected to the new campus head end(s) and new equipment provided as required to maintain or improve system connectivity and compliance with OUSD standards.

APPLICABLE CODES AND SPECIFICATIONS

- OUSD Applicable Specifications
 - 271000 Structured Cabling System
 - 275100 Autonomous Sound
 - 275113 Paging System
 - 275225 Portable Assistive Listening System
 - 275313 Clock System
 - 281600 Intrusion Detection Systems

- Applicable Codes
 - 2022 Building Standards Administrative Code, Part 1, Title 24 C.C.R.
 - 2022 California Building Code (CBC), Part 2, Title 24 C.C.R. (UBC with Amendments)
 - 2022 California Electrical Code (CEC), Part 3, Title 24 C.C.R. (NEC with Amendments)
 - 2022 California Mechanical Code (CMC), Part 4, Title 24 C.C.R. (UMC with Amendments)
 - 2022 California Plumbing Code (CPC), part 5, Title 24 C.C.R. (UPC with Amendments)
 - 2022 California Fire Code, Part 9, Title 24 C.C.R. (UFC with Amendments)
 - 2022 California Referenced Standards, Part 12, Title 24 C.C.R.
 - 2022 Title 19 C.C.R., Public Safety, State Fire Marshal Regulations.

- Applicable Standards
 - ANSI American National Institute Standards
 - IEEE Institute of Electrical and Electronic Engineers
 - NEMA National Electrical Manufacturer's Association
 - UL Underwriter's Laboratories
 - ADA Americans with Disabilities Act

 - NFPA National Fire Protection Association
 - ASTM American Society for Testing and Materials –
 - ICEA Insulated Cable Engineers Association –
 - OSHA Occupational Safety and Health Administration
 - ANSI/TIA/EIA Telecommunications Building Wiring Standards.
 - IEEE Institute of Electrical and Electronic Engineers
 - BICSI Building Industrial Consulting Services International
 - FCC Federal Communication Commission (FCC)
 - NEMA National Electrical Manufacturer's Association
 - NFPA National Fire Protection Association

GENERAL LOW VOLTAGE / TECHNOLOGY SCOPE

- LAN Head End: MDF and MPOE located in Library Building.
- WLAN: Install new WAPs at new buildings.
- Fiber & Copper Backbone: New IDFs with new fiber backbone (10G) and multi-pair count copper for the new buildings.
- Telephones: New VOIP phones for new buildings to tie into existing VOIP system.
- (PA) / Intercom: New buildings PA devices to be compatible with new campus PA system.
- Clocks: New Sapling Master Clock and new Sapling Wi-Fi clocks for new buildings.
- Intrusion Detection: New Intrusion Detection System Devices for new buildings.

PATHWAYS, SPACES & SITE RECOMMENDATIONS

- The campus communications pathway infrastructure is designed in a star topology originating at the campus Main Distribution Frame (MDF) in the Library Building. Other low voltage head end systems (PA, Intrusion, and Master Clock System) are also located in the campus MDF (Library Building) Existing Interbuilding pathway infrastructure is a combination of underground conduit, underground vaults, and surface mount pull boxes. The campus LAN backbone for all technology / low voltage systems are fiber optic cable and multi-pair count copper cable.
- The new buildings will be provided with underground conduit pathway stubbed and capped within 5' of the building foundation. The min. connection from the new building IDF to the existing underground conduit pathway shall be:
 - (1) 3" underground conduit pathways from the new campus MDF in the Library-Classroom Bldg.
 - (3) 2" underground conduit pathways from the new campus MDF in the Library-Classroom Bldg. for PA, security upgrade projects, or spare capacity.

- Exact routing and installation method shall be demonstrated with shop drawings.
- The new buildings should have an IDF room that is min. 10' x 8' per floor. Coordinate IDF space requirements with Architect's most current space program. The room shall be designed to support the following Div. 271010 Specifications, and TIA/EIA/BICSI best practices:

CONNECTION OF LOW VOLTAGE SYSTEMS TO NEW BUILDINGS

- Public Address (PA) / Intercom System Scope
 - New Public Address System Devices for the new buildings shall be compatible with existing system per District Specifications.
- Telephones Scope of Work:
 - New VOIP phones for new building. Existing Telephone System updated to a VoIP System. The phone system will leverage the fiber data backbone for connectivity to other buildings.
- Intrusion Detection System Scope of Work:
 - New security panels shall be provided in each new building IDF with terminals, zone expanders, power supplies, batteries and all other components required, per OUSD Spec, Div. 281600, to support connection of new buildings to campus main security panel in MDF in Library Building.
- Clock System Scope of Work:
 - New buildings shall be equipped with new Sapling Wi-Fi enabled analog clocks.

NEW BUILDING LAN REQUIREMENTS

- The project and construction documents shall clearly indicate all requirements for a complete installation and integration of a converged voice, video, data IP networks to enable technology systems communication.
- The project shall identify a single structured cabling plant for the entire converged communication system, cable pathways, and cabling types (e.g., fiber, category cabling) to be installed by the contractor for each new building. The design shall make all provisions for cable and conduit schedules, riser diagrams, elevations and technical details in accordance with the District published structured cabling specification. In addition, the design shall identify specific locations/points between the PA/Intercom, Security, Autonomous PA and fire alarm systems where the system integration occurs.
- Classrooms and Work Area Drop Requirements for the new building shall comply with Educational Specifications for outlets locations and quantities required.
 - Classrooms shall receive a minimum of: Twelve (12) Category 6 or 6A (for WAPs) data drops (4-teacher, 1-printer, 1-AV, 2-utility/student, 2-WAP, 1 VOIP telephone, and 1 PA speaker.) Note: WAPs shall be Category 6A.
 - Floor outlets shall receive min. (4) Category 6 drops.
 - Classroom Teacher Desks and Lecterns shall receive min. (4) Category 6 drops.
 - Administrative Areas and Offices shall receive: One (1) wall outlet with two Category 6 drops in a single 2-position faceplate at each workstation.
 - Workroom/Project Rooms: shall receive: Three (3) Category 6 drops for teachers. One (1) Category 6 drop for printer. Two (2) Category 6 drops for general use. Verify location.
 - General Workrooms shall receive: One (1) Category 6 drops for teachers and Two (2) Category 6 drops for general use. Verify location.
 - Workrooms for Administration shall receive: Two (2) Category 6 drops for each teacher or admin location. Verify location.

- Conference Rooms shall receive: Two (2) Category 6 drops for general use. Verify location.
 - Drops will terminate in a single faceplate with two Category 6 drops each. One drop shall be labeled “voice” and the other “data”.
 - One (1) 50”-65” wall mount Smart TV.
 - One (1) HDMI and 3.5mm audio faceplate on the wall behind the TV mount and One (1) HDMI and 3.5mm audio faceplate at 15” on the wall behind the conference room media cabinet.
 - Stub up (1) 1” conduit from each outlet box and provide HDMI and 3.5mm audio cabling. Use j-hooks for cabling support above the false ceiling.
 - One (1) 120V TVSS duplex power outlet on the wall behind the Smart TV and One (1) 120V TVSS duplex power outlet on the wall behind the conference room media cabinet.

NEW BUILDING TELEPHONE OUTLETS

- Make provisions for wall mounted telephones in Classrooms, Teacher’s Work Room, Cafeteria, Gymnasium, Computer Rooms, Faculty Lounge, First Aid Room, Music Room, Locker rooms, and in other instructional areas as directed by District.
 - Desk telephones shall be used only where specifically directed.
 - One wire connection (jack only) for each fax machine in main administration area.
 - One wire connection for kitchen’s office fax.
 - Two wire connection (jack only) for fire alarm system.
 - One wire connection (jack only) for intrusion alarm.
 - Desk type phones shall be used at library reception desk.

NEW BUILDING WLAN REQUIREMENTS

- WLAN scope of work: Install new WAPs at new buildings. WAPs in existing buildings to remain.
- Wireless access points (WAP) shall be installed in classrooms and on the exterior of the buildings. Horizontal cabling for WAPs shall terminate at the building IDF Rooms/Cabinets.
- Provide a minimum of one AP per classroom plus 30% for other instructional and designated areas by the OUSD Project Manager. Include exterior APs in design as directed.

NEW BUILDING IP CONVERGED BUILDING TELEPHONE AND PA/INTERCOM SCOPE OF WORK:

- Provide PA speakers for the new building in the following locations: Classrooms, offices, corridors, library, teachers’ workrooms, student store, restrooms, plant manager’s office and all occupied rooms where no telephone has been provided.
- Provide exterior speakers at perimeter of building and any common areas or courtyards adjacent to building. Size speakers/horns appropriate to the area covered. Do not impact adjacent residential areas.
- System shall comply with all requirements of OUSD Specification 275113 “Paging System”.

NEW BUILDING CLOCK SYSTEMS SCOPE OF WORK:

- Clocks are to be provided in all academic spaces, offices, teachers’ work rooms, conference rooms, and in any other areas indicated in the school design guide.

NEW BUILDING INTRUSION DETECTION SCOPE OF WORK:

- Provide a Remote Security panel at new buildings that is connected to the main security panel by communication bus wiring.
- Motion detectors shall be in all areas or rooms (except classrooms) that are located along the perimeter of the first floor, above the first floor if accessible by the exterior, corridors, Telecom rooms, and high-risk spaces.
- Recessed door switches shall be provided at classrooms, restrooms with exterior access, and utility rooms with exterior access.
- The system shall comply with all requirements of OUSD Specification 281600 “Intrusion Detection”.

NEW BUILDING EMERGENCY RESPONDER RADIO COVERAGE SYSTEM SCOPE:

- All new buildings shall be designed to receive an emergency responder radio coverage (ERRC) system.
- Design professionals (AOR/EOR) in charge of the project are required to contact the local fire department and/or emergency communications authority to obtain design and equipment specifications and testing and acceptance criteria.
- Design professionals shall submit plans, request documentation, and pay applicable fees to the local authority having jurisdiction for review and approval.
- Upon completion, copies of the approved plans, equipment data sheets, and proof of testing and acceptance documentation shall be provided to the District’s Owner Authorized Representative and Design Manager.

END OF DESIGN CRITERIA

FIRE PROTECTION**BASIS OF DESIGN: FIRE PROTECTION DIVISION 21***GENERAL*

- Summary

This Basis of Design (BOD) outlines the project factors and scope of work for the proposed Fire Protection/Suppression. The BOD documents the concepts on which the systems are based, the methodology used to approach the design, and how the design satisfies the project requirements. The systems have been carefully thought out to meet the project requirements.

- Project Description

The project includes two new buildings, a Classroom Building A and a gymnasium/MPR Building B on the existing middle school campus. Building B will serve as a multi-purpose building including a stage, kitchen, and administration offices. Building A includes Classrooms, Science Labs and VAPA.

APPLICABLE CODES AND STANDARDS

- The design and installation of all fire protection systems shall be in accordance with the following codes:
 - 2022 California Building Code (CBC)
 - 2022 California Fire Code (CFC)
 - California State Fire Marshal Listed (CSFM)
 - 2021 International Building Code (IBC)
 - 2021 International Fire Code (IFC)
- The design and installation of all fire protection systems shall be in accordance with the following codes and standards of the National Fire Protection Association (NFPA):
 - NFPA 1, Fire Code (2024).
 - NFPA 3, Standard for Commissioning of Fire Protection and Life Safety Systems (2024).
 - NFPA 4, Standard for Integrated Fire Protection and Life Safety Systems Testing (2024).
 - NFPA 13, Standard for Installation of Sprinkler Systems (2022).
 - NFPA 24, Standard for the Installation of Private Fire Service Mains and Their Appurtenances (2022).
 - NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems, California Edition (2023).
 - NFPA 45, Standard on Fire Protection for Laboratories Using Chemicals (2024).
 - NFPA 70, National Electrical Code (NEC, 2023).
 - NFPA 72, National Fire Alarm and Signaling Code (2022).
 - NFPA 90A, Standard for the Installation of Air-Conditioning and Ventilation Systems (2024).
- Underwriters' Laboratories, Inc. (UL)
 - UL 38
 - UL 50 Enclosures for Electrical Equipment
 - UL 346 Water-Flow Indicators for Fire Protective Signaling Systems
- The design and installation of all fire protection systems shall be in accordance with the following supplemental requirements:
 - City of Oceanside-specific ordinances.
 - Agency-specific ordinances.
 - Client-specific requirements and standards.

FIRE SUPPRESSION

- Water Supply
 - The municipal potable water distribution network will supply the building fire sprinkler system via a new underground piping service entrance.
 - Municipal water mains are located in Poplar Road, Acacia Ave and Willow Avenue bordering the site.
 - One underground fire service will supply the building, size to be determined.
 - A backflow prevention device will be installed at each fire service entrance to prevent cross-connection between the building sprinkler/standpipe system and the potable water supply.
 - Obtain (from the Client) and review water flow test information for the project site to confirm that the available water supply is sufficient to meet the anticipated fire sprinkler system demand. Historically, the Division of State's Architect (DSA) has required a water flow test be conducted within six months from the time of the team's first DSA submission. However, DSA will accept water flow tests that have been conducted up to 12 months prior to the date the project is submitted per DSA Bulletin BU 15-02.
 - Hydrant flow test is not available at this time.
- Automatic Sprinkler System
 - The entire building will be provided with an automatic sprinkler system designed in accordance with NFPA 13.
 - Sprinklers will be quick/fast response type throughout, unless not permitted by NFPA (Extra Hazard classification) or otherwise not suitable for an application (high-temperature spaces).
 - Building Hazard Classifications:
 - Light Hazard – Gymnasium, office spaces, restrooms, and similar fire loading areas.
 - Provide quick-response fire sprinklers with a maximum coverage of 225 ft² per sprinkler. Light Hazard areas shall be designed to 0.10 gpm/ft² over the most hydraulically remote area of 1,500 ft² with a 100-gpm hose allowance. Quick response area reduction shall be permitted in accordance with NFPA 13 Section 19.2.3.2.3.1
 - Ordinary Hazard Group 1 – Mechanical and electrical rooms, storage areas, kitchen, and similar fire loading areas.
 - Provide quick-response fire sprinklers with a maximum coverage of 130 ft² per sprinkler. Ordinary Hazard Group I areas shall be designed to 0.15 gpm/ft² over the most hydraulically remote area of 1,500 ft² with a 250-gpm hose allowance. Quick response area reduction shall be permitted in accordance with NFPA 13 Section 19.2.3.2.3.1.
 - Ordinary Hazard Group 2 – Stage, storage areas, and similar fire loading areas.
 - Provide quick-response fire sprinklers with a maximum coverage of 130 ft² per sprinkler. Ordinary Hazard Group I areas shall be designed to 0.20 gpm/ft² over the most hydraulically remote area of 1,500 ft² with a 250-gpm hose allowance. Quick response area reduction shall be permitted in accordance with NFPA 13 Section 19.2.3.2.3.1.
 - All sprinklers shall be laid out and installed in symmetrical patterns: sprinklers located in the ceiling tiles shall be positioned in the center of the 2 ft x 2 ft tile or centered at quarter points along the length of the 2 ft x 4 ft tile.

- The various sprinkler system zones, throughout the building, will be designed and installed in accordance with hydraulic design criteria as required. Each floor will be provided with a floor control valve assembly in the stairwell or fire riser room.
 - Provide recessed pendent sprinklers in office areas with finished ceilings.
 - Provide concealed pendent sprinklers in lobby and circulation spaces with finished ceilings.
 - The hydraulic calculations shall include the hydraulically most remote area for systems supplied by more than one combination riser. Hydraulic calculations shall show the remote areas being supplied solely from the hydraulically most remote combination riser.
 - Velocity shall not exceed 32 fps for aboveground piping and 16 fps for below ground piping.
 - All calculations shall assume 10 psig deterioration in static and residual pressures in the hydrant flow test results.
 - Provide upright sprinklers in exposed areas.
 - Exterior sprinklers, or sprinklers located in corrosive environments, shall be corrosive resistant.
 - Sprinklers in behavioral health facilities shall be tamper-proof/anti-ligature.
 - All piping and fittings, devices and their installation shall comply with the requirements of NFPA 13, and the local authority having jurisdiction (AHJ). All material and equipment shall be UL-listed and/or Factory Mutual System (FM) approved for fire protection service.
 - Piping Material:
 - Pipe/Fittings: Black steel pipe, ASTM A53/A53M, Type B. Pipe ends may be factory or field formed to match joining methods.
 - Joints: Roll-grooved joints. Assemble coupling with housing, gasket, lubricant, and bolts. Join steel pipe and grooved-end fittings according to AWWA C606.
 - The fire protection contractor shall be required to complete the contractor's material and test certificates for the fire protection piping and submit them to the owner's insurance company, local fire marshal, and design professional.
- ACTION SUBMITTALS
 - Product Data: For each type of product.
 - Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.
 - Sustainable Design Submittals:
 - Product Data: For adhesives, indicating VOC content.
 - Laboratory Test Reports: For adhesives, indicating compliance with requirements for low-emitting materials.
 - Shop Drawings: For sprinkler systems.
 - Include plans, elevations, sections, and attachment details.
 - Include diagrams for power, signal, and control wiring.

- INFORMATIONAL SUBMITTALS
 - Coordination Drawings: Sprinkler systems, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
 - Domestic water piping.
 - Compressed air piping.
 - HVAC hydronic piping.
 - Items penetrating finished ceiling include the following:
 - Lighting fixtures.
 - Air outlets and inlets.
 - Detectors, speakers, strobes, etc.
 - Sensors.
 - Various switches.
 - Qualification Data: For qualified Installer and/or professional engineer.
 - Design Data:
 - Approved Piping Drawings: Working plans, prepared according to NFPA 13, that have been approved by authorities having jurisdiction, including hydraulic calculations if applicable.
 - Welding certificates (if required).
 - Field Test Reports:
 - Indicate and interpret test results for compliance with performance requirements and as described in NFPA 13. Include "Contractor's Material and Test Certificate for Aboveground Piping."
 - Fire hydrant flow test report.
 - Field quality-control reports.
- CLOSEOUT SUBMITTALS
 - Operation and Maintenance Data: For systems and specialties to include in emergency, operation, and maintenance manuals.
- MAINTENANCE MATERIAL SUBMITTALS
 - Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - Sprinkler Cabinets: Finished, wall-mounted, steel cabinet with hinged cover, and with space for minimum of six spare sprinklers plus sprinkler wrench. Include number of sprinklers required by NFPA 13 and sprinkler wrench. Include separate cabinet with sprinklers and wrench for each type of sprinkler used on Project.
- WORKING PLANS
 - Prepare working plans according to the requirements of NFPA Standard 13. Working plans and hydraulic calculations shall be prepared by a NICET-Certified Level III or IV Automatic Sprinkler System Engineering Technician as a minimum qualification. Working plans shall be provided in addition to the requirements for coordination drawings. Coordination drawings will not be accepted in lieu of working plans.

- Submit working plans and hydraulic calculations to the Owner's Representative. Plans submitted without review stamps or hydraulic calculations will be returned without review. Hydraulic calculations submitted without working plans will be returned without review.
- Submittal drawings and working plans shall be prepared utilizing a computer-generated system.

- **QUALITY ASSURANCE**
 - Installer: Company specializing in performing work of the type specified in this Section, with documented experience.
 - Manufacturer: Company specializing in manufacturing products specified in this Section, with document experience.
 - All grooved couplings and fittings shall be the product of a single manufacturer. Grooving tools shall be of the same manufacturer as the grooved components.
 - All castings used for coupling housings, fittings, valve bodies, etc., shall be date-stamped for quality assurance and traceability.
 - Welders: Certify in accordance with ASME (BPV1X)

- **EARTHQUAKE PROTECTION AND SEISMIC RESTRAINTS**
 - The Fire Protection Contractor shall provide all necessary design and materials for seismic restraint and protection of piping and devices against damage where subject to earthquake as required for the entire fire protection system within the building. All isolation and seismic devices shall be the product of a single manufacturer. Products of other manufacturers are acceptable provided their systems strictly comply with this section of the specifications. Provide isolation materials and seismic restraints complete and as manufactured by Mason Industries, Tolco or approved equal.
 - The work under this section shall include the design, furnishing and installation of all restraint devices and systems as may be required for the fire protection system including, but not necessarily limited to, the following:
 - All fire protection equipment and devices such as pumps, air compressors, tanks, etc.
 - All fire protection system piping as required.
 - Piping penetrations through floors and walls.
 - Sleeves with clearances around the outside, as recommended.
 - Equipment isolation bases.
 - Piping flexible connectors.
 - Seismic restraints for isolated equipment.
 - Seismic restraints for non-isolated equipment.
 - Certification of seismic restraint designs.
 - Six elbow swing joints at all building seismic separations as required by NFPA 13.
 - Submittals shall include descriptive data for all products and materials, including the following:
 - Catalog cuts and data sheets for the specific isolators, restraints, and all other items to be utilized.
 - Details of methods of sleeving, fire protection, smoke proofing and isolation for pipes penetrating walls and slabs.
 - Specific details of seismic restraints and anchors, including number, size, and locations for each piece of equipment.
 - Calculations to support seismic restraint designs.

- All calculations, details and other submittal materials shall be sealed and signed by a Structural or Civil Engineer registered in the state and qualified to perform seismic design calculations.
- A seismic design liability insurance certificate that must accompany all submittals.
- Manufacturers working in this section must provide a seismic design liability insurance certificate and certify their ability to provide engineering and design as required by this section. This certificate shall be submitted to the Architect for review prior to any submittals.

- EXECUTION
 - The contract documents intend to show only the scope of the design, the Fire Protection Contractor shall be responsible for the correct installation of this work in a manner satisfactory to the best practices of his trade to complete the scope of this subcontract in all respects. No roughing work shall be accomplished until the pertinent manufacturer's shop drawings are approved.
 - The Fire Protection Contractor shall be responsible for the correctness of field dimensions and shall check for themselves all grades, lines, measurements, and other data in any way affecting their work. They shall refer to the project phasing schedule together with architectural and structural drawings of other Trades for a full comprehension of the extent of the work to be performed and to avoid interference and shall not be entitled to any extra compensation for any additional work or expense arising from his failure to do so. In case interference develops the Architect shall decide which work is to be relocated, regardless of which was first installed. Work installed by the Fire Protection Contractor which is improperly located and/or interferes with or modifies either the phasing schedule or the architectural or structural design, shall be changed as directed by the Architect, and all costs incidental to such changes shall be paid by the Fire Protection Contractor.
 - The Fire Protection Contractor shall coordinate all their work with the work of all other Trades, and shall so arrange their work that there will be no delay in the proper installation and completion of any part or parts of each respective work wherein it may be interrelated with theirs, so that generally all construction work can proceed in its natural sequence without unnecessary delay, close coordination is also required with the HVAC, Plumbing and Electrical Contractors in areas serving these Trades. The Fire Protection Contractor shall also participate with all other Contractors in the process to prepare a complete set of coordination drawings prior to installation of any systems.
 - Contact between piping and dissimilar metals such as hangers, building structural work, or equipment shall be avoided to prevent galvanic action.
 - Pipe shall be cut accurately to measurements established at the site and shall be worked into place without springing or forcing. All pipe, regardless of how cut throughout the job, shall be reamed smooth and all burrs removed before being installed. Pipe shall not be split, bent, flattened, nor otherwise injured either before or during the installation. Full lengths of pipes shall be used wherever possible and short lengths of pipe connected with couplings will not be permitted.
 - The Fire Protection Contractor shall use every precaution in the installation of all piping to prevent dirt, chips, or other foreign materials entering the inside of piping. All pipes shall be clean and blown out to the satisfaction of the Architect before closing of any line. Keep the ends of piping capped or blind flanged during the construction of the system to keep out dirt or other foreign matter. The plugs and caps are to remain until permanent and

- final installation is made. The use of paper, waste, rags and so forth to close openings will not be permitted.
- Unions or flanges shall be installed at all equipment valves and at such other places as may be necessary to disconnect piping or at each piece of equipment or accessory which may have to be disconnected to make repairs.
 - Bushing will not be inserted in fittings for reduction in size where fittings of required size are manufactured.
 - The Fire Protection Contractor shall also provide the necessary data and supervision for the provision of all holes in the structure, and also for the installation of equipment foundations, including bolt hole templates, weights and manufacturer's recommendations for proper emplacement design. This shall be furnished to the Construction Manager and other related subtrades.
 - Equipment and accessories shall be set level, plumb and in proper alignment with reference to adjacent walls. All surfaces coming in contact with walls, floors or other equipment shall have properly planed surfaces with suitable contact on wall and floors.
 - Clips, hangers, clamps, supports and other attachments to surfaces to be fireproofed shall be installed, insofar as possible, before start of spray fireproofing work. Piping and equipment that interfere with proper application of fireproofing shall be installed after completion of spray fireproofing work. Patch and repair, at no additional cost to Owner, spray fireproofing cut or damaged during course of work specified under this Section. Trade responsible for damage shall bear cost of repair.
- **HYDRANT FLOW TEST**
 - Notifications: Notify the AHJ at least three working days in advance of performing the flow test.
 - Perform hydrant flow test in compliance with NFPA 13 and 291. Perform test as close as possible to new wet-tap connection for new fire service.
 - Pressure drop from static to residual shall be at least 25 percent of the static pressure. The flow at the residual pressure shall meet or exceed the preliminary estimated design flow. Open additional hydrant butts as required to obtain the specified pressure drop or to match the preliminary estimated design flow.
 - Record elevations of the test hydrants and submit hydraulic graph(s) indicating test results for review and approval before submitting hydraulic calculations and working plans.
 - **HYDRAULICALLY CALCULATED SPRINKLER SYSTEM**
 - The Contractor shall provide a hydraulically designed system in complete accordance with and as defined in applicable NFPA standards.
 - Verification of Hydraulic Information
 - The Contractor shall perform hydrant flow tests to establish water supply availability. Water supply information shall be provided on shop drawings as outlined in NFPA 13.
 - The Contractor shall confirm that hazard classifications/density requirements conform with the Owner's fire insurance underwriter's requirements and those of other AHJs.
 - Accompanying sprinkler shop drawings submitted to the Architect shall bear all sprinkler system requirements, water supply data, graph and work sheets all as defined by NFPA. The hydraulic graph shall include the following information:
 - Hydrant flow test curve.
 - Adjust flow test for friction and elevation at new wet tap connection.

- System friction loss curve for sprinkler system with inside hose stream.
 - Available outside hose stream flow.
 - All calculations shall assume 10-psig deterioration in static and residual pressures in the hydrant flow test results, the deterioration must also include a 10% reduction in the tested flow.
 - In addition to the above noted requirements, the hydraulic calculations shall include:
 - The hydraulically most remote area for each hazard classification/density requirements as noted on the contract documents.
 - Additional hydraulic calculations shall be submitted, when requested, which demonstrate that the Contractor's selected remote areas are indeed the hydraulically most demanding as well as remote.
- **INSTALLATION OF PIPING AND EQUIPMENT**
 - Install the Work of this Section in compliance with the referenced NFPA standards. Coordinate installation with work of other sections and install piping level or pitched back to main riser or low point drain. Provide drain valve on trapped piping. Install all sprinklers with return bend drops to ceilings.
 - Install fire line piping and combined standpipe risers generally as shown on the Drawings. Run piping concealed above ceilings and within furred spaces. Take special care to locate risers within pipe chases as indicated on the architectural drawings. Obtain approval from the Architect for piping locations which require furrings not indicated on the Contract Drawings. Provide pressure gauges with shut-off cock at top and base of risers.
 - Provide 3/4-inch hose end drain valve with cap and chain at base of standpipe riser. Locate drain valve downstream of riser isolation valve.
 - Provide inspectors test valve assemblies for each flow switch and sprinkler test drain stacks at each combined standpipe and spill to drain. Provide main inspector's test assembly at most remote point of system.
 - Install equipment and products provided under this Section in compliance with the product listing and the manufacturer's installation instructions.
 - Install chrome-plated escutcheons where piping passes through finished surfaces.
 - Grooved joints shall be installed in accordance with the manufacturer's latest published installation instructions. Grooved ends shall be clean and free from indentations, projections, and roll marks. Gaskets shall be molded and produced by the coupling manufacturer and shall be verified as suitable for the intended service. A factory-trained field representative (direct employee) of the mechanical joint manufacturer shall provide on-site training for contractor's field personnel in the proper use of grooving tools and installation of grooved piping products. The factory-trained representative shall periodically review the product installation and ensure best practices are being followed. Contractor shall remove and replace any improperly installed products. A distributor's representative is not considered qualified to conduct the training.
- **SITE VISIT**
 - Before commencing any work under this Section, verify all dimensions, elevations, pipe sizes and locations in the building and examine all adjoining work in which this work is in any way dependent. Visit and investigate all spaces and conditions to become familiar with installation and all requirements prior to bidding.

- Each bidder shall visit the site and inspect all conditions affecting any aspect of the work. Failure to do so and misinterpretation of the plans and specifications resulting there from shall be entirely the responsibility of the bidder.
- **INSTALLATION AND SPACING OF SPRINKLERS**
 - Sprinkler spacing, densities and design shall comply with NFPA and the Owner's Insurance Underwriter.
 - Location of sprinklers in ceiling tiles:
 - Refer to Architectural reflected ceiling plans and room finish schedules for ceiling tile types. Mount sprinklers in center of tiles, or along ¼ point locations in rectangular tiles.
 - Align sprinklers with ceiling components such as lighting fixtures, HVAC diffusers and smoke detectors.
 - Provide additional sprinklers, including appendices to protect areas where any sprinkler's spray pattern is obstructed by any and all obstructions in accordance with NFPA 13. Mechanical room sprinkler layouts shall be based on approved ductwork submittals. Additional sprinklers required to provide complete sprinkler protection due to obstructions and/or coordination shall be provided at no additional cost to the Owner.
 - Provide upright sprinklers within stair towers at the top and bottom of the stair tower.
 - Elevator shafts and elevator machine rooms shall not be sprinklered.
 - Sprinkler bulb protector shall be removed by hand. Do not use any tools or devices that could damage the bulb.
 - Provide sprinkler protection in electric rooms. Provide an indicating shut-off valve with tamper switch on the branch line located in an accessible area, outside of the electrical room, when shown on the drawings.
- **CORE DRILLING**
 - This Contractor shall perform all core drilling required for the installation of the fire protection system. Locate all required openings and prior to coring coordinate the opening with the Construction Manager. Thoroughly investigate the existing conditions in the vicinity of the required opening prior to coring. Care must be taken so as not to disturb the existing building systems. Locate all other openings required for the Construction Manager. Patching of existing walls and openings shall be performed by the respective Trade responsible for the finish material in which the opening is made.
 - Before coring is performed, submit drawings showing location of cores to Structural Engineers for their review.
- **CLEANING OF SYSTEMS**
 - All fire protection piping shall thoroughly flush out to remove any slag or debris prior to being tested or put into service.
- **EQUIPMENT ACCESS REQUIREMENTS AND ACCESS PANELS**
 - All work shall be installed so that all parts requiring inspection, operation, maintenance, and repair are readily accessible as approved by the Owner. Minor deviations from the Drawing may be made to accomplish this, but changes of magnitude shall not be made prior to written approval from the Architect.
 - Furnish access panels if required in walls and ceilings as required to permit access for adjustment, removal and the replacement and servicing of all equipment, and all other

items requiring maintenance and adjustments. Access panels shall be installed by the Trade determined by the Construction Manager.

- Access panels shall be 12 in. X 12 in. minimum size and constructed of steel with primer coat of rust inhibitive paint and shall have continuous piano hinge, as manufactured by Inland Steel Products, Milcor, Walsh-Hannon or approved equal. Panel shall be key operated cylinders, keyed alike. Key lock system shall be coordinated with the Owner and shall be as approved by the Architect. Provide six (6) keys of type used for Owner's use.
- TESTING AND INSPECTION
 - This Contractor shall obtain and pay for all the inspection and tests required for this Section of the work. Defects discovered in work, materials and/or equipment shall be replaced at no cost to the Owner, and the inspection and test shall be repeated. When work is completed, this Contractor shall furnish a Certificate of Inspection and Approval to the Owner before final payment of the Contract will be allowed.
 - Test sprinkler piping and make watertight before painting and before concealment. Make partial tests as required, during the progress of the work. All tests shall be witnessed by the Owner's representative, AHJs and a representative of the Engineer.
 - Test systems according to provisions of NFPA standards and the additional requirements of the approving authority and this Section.
 - Modified sprinkler system shall be tested to a hydrostatic test of 200 psig or 50 psig higher than the normal working pressure of the system for (2) hours without loss as specified in NFPA 13.
 - This Contractor shall, with the parties noted herein, establish procedures to witness testing that are acceptable to the parties noted herein. All parties noted herein shall be notified in writing of the accepted testing procedure prior to any testing. This Contractor shall notify parties designated to witness testing at least 48 hours in advance of scheduled testing.
 - Conditions requiring testing in excess of the minimum requirements noted herein shall be performed in accordance with NFPA standards and any requirements of AHJs.
 - Should the Owner, Engineer or any AHJ require, this Contractor shall provide factory trained, manufactures authorized representatives to perform testing on any equipment and/or devices that may be an integral part of this Specification.
 - Dispose of test water and wastes after tests are complete, in a manner satisfactory to the Owner and Local Authorities.
 - Furnish to the Engineer completely executed test certificates with signatures of those required to witness testing. Test certificate forms shall follow NFPA formats as a minimum requirement.
 - Test and certify water flow, pressure, and supervisory tamper switches.
 - Notify the AHJs at least three days in advance of the scheduled test.
 - Complete working tests of all systems in accordance with NFPA standards.
- INSPECTION SERVICE
 - After completion of the fire protection work and at start of the guarantee year, The Fire Protection Contractor shall execute the National Automatic Sprinkler and Fire Control Association, Inc. Standard Form of Inspection Agreement without charge to the Owner, calling for four inspections of the system during the guarantee year. During the year, inspections shall be made as per the Inspection Agreement plus the following maintenance shall be performed on the last inspection:



DESIGN-BUILD CRITERIA

tk1sc – BASIS OF DESIGN

01/26/24

- Operation of all control valves
- Lubrication of stems of all control valves
- Operation of all alarms
- Cleaning of alarm valves and parts
- The standard form, "Report of Inspection" shall be filled out in triplicate after each inspection and copies sent to the Owner and the Owner's insuring agency.
- All inspections and maintenance shall be in accordance with applicable NFPA standards, including NFPA 25, as a minimum. Requirements of Owner's Insurance and other AHJs are also a part of this service.

END OF SECTION

BASIS OF DESIGN: RENEWABLES (PV + BESS)

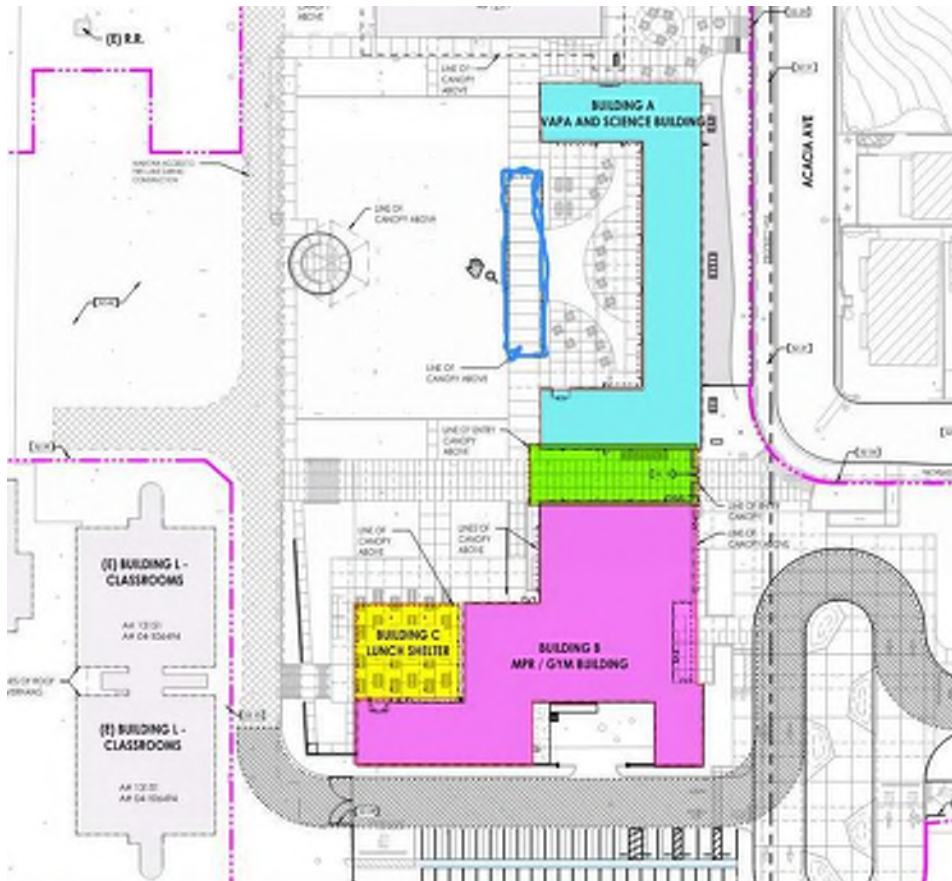
Applicable Codes and Standards

Applicable Standards

- Applicable Standards
 - IBC - International Building Code, as amended by the State of California
 - NEC National Electrical Code (NFPA 70), as amended by the State of California.
 - IFC– International Fire Code, as amended by the State of California.
 - IEEE 519 - Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems.
 - IEEE 929 - Recommended Practice for Utility Interface of Photovoltaic (PV) Systems.
 - IEEE 1262 - Recommended Practice for Qualification of Photovoltaic (PV) Modules - Description.
 - IEEE 1374 - Guide for Terrestrial Photovoltaic Power System Safety.
 - NABCEP - North American Board of Certified Energy Practitioners.
 - NEMA 3R - Industrial Enclosures.
 - NEMA 4 - Enclosures Constructed for either Indoor or Outdoor Use.
 - NRTL - Nationally Recognized Testing Laboratories.
 - OSHA - Occupational Health and Safety Administration, United States Department of Labor.
 - UL 1703/61730 - Flat-Plate Photovoltaic Modules and Panels.
 - UL 1741 SA - Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources.
 - DSA IR 16-8 “Solar Photovoltaic and Thermal Systems Review and Approval Requirements”.
 - DSA IR N-4 “Modular Battery Energy Storage Systems: 2022 CBC and CFC”.

Electrical Sustainability Strategies

- New construction assumes perspective photovoltaic (“PV”) and battery energy storage systems (BESS) per CA Title24 (2022) adoption. New construction buildings are as listed –
 - Building A: VAPA and Science Building
 - Building B: MPR / Gym / Storage



- The system shall be designed to optimize performance (kWh). Helioscope or PVsyst software shall be used for any production reports. Production guarantees are not required.
- A performance method approach by the Energy Consultant to “trade off” (some) of the required PV (kW) and/or BESS (kW-kWh) may be considered.

Photovoltaic (PV) Requirements

- All newly constructed building types must have a PV system meeting the minimum qualification requirements of Reference Joint Appendix JA11 of the Title 24, Part 6 prescriptive compliance approaches for achieving energy efficiency.
- Engineered design and prepared submittals shall follow any Design Standards provided by the Client or Oceanside Unified School District.
- The PV system shall be designed, engineered, and installed consistent with and adhere to any and all currently adopted versions of the California Building Code, applicable utility rules and tariffs, and any and all CBC/CEC technical and installation specifications and guidelines.
- The PV array is assumed to be a utility grid connected system installed in accordance Article 705 – “Interconnected Electrical Power Production Sources”. Interconnection must comply with the serving utility’s interconnection standards for non-Utility Generation.
- All modules shall meet or exceed the requirements of IEEE Standard 1262 and UL Standard 1703 and 61730.

- Design shall be sized to meet the minimum prescriptive PV requirements per Title 24 Section 140.10. Preliminary calculations for Title 24 minimum PV system size is as follows. The design Contractor shall be responsible for final calculations based on recent modeling:

Building A: VAPA and Science Building

Conditioned Floor Area (Estimate): 10,628 sq-ft

PV (kW) Min. (Prescriptive): **17.32kW**

Building B: MPR / Gym / Storage

Conditioned Floor Area (Estimate): 14,727 sq-ft

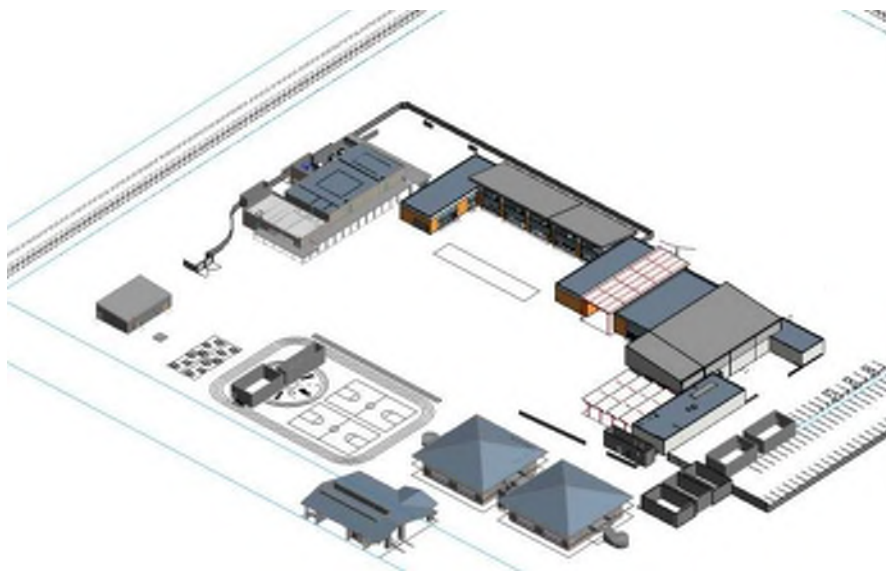
PV (kW) Min. (Prescriptive): **24.01kW**

- The following mounting configurations shall be considered –
 - Rooftop flush-mounted atop metal standing seam
 - Canopy-style covered lunch shelter and breezeway

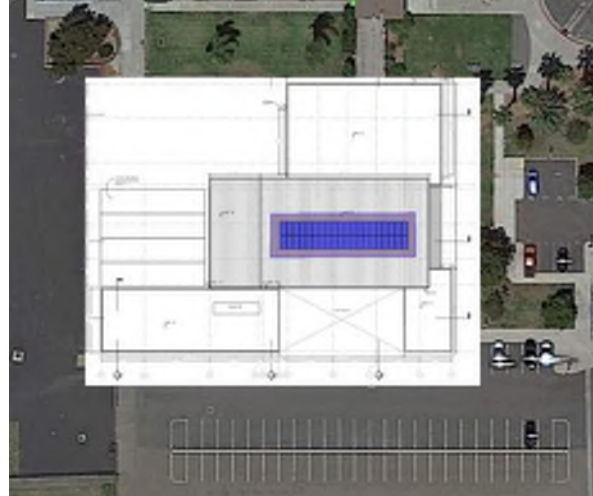
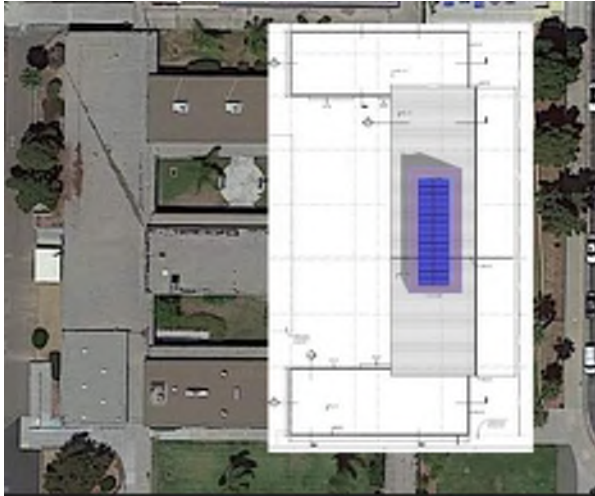
A roof-mounted solution shall assume mechanical attachments to the roof deck or framing members as designed by a qualified structural engineer. A ballasted solution will not be considered.

A ground-mounted canopy-style option shall provide form and function – shade to the students and faculty while offset energy consumption from the adjacent new buildings.

For reference, the metal roof surfaces are shown below in gray. The canopy locations are represented in the graphic, as well.



Example rooftop layouts are included below for reference only.



The system shall be fully designed to obtain DSA approval of the photovoltaic system. Any available manufacturer test reports to be provided to the structural engineer for calculation purposes.

- Roof inspection and warranty shall be coordinated with the roofing manufacturer.
- The documents shall include the cost to obtain DSA approval of the photovoltaic (PV) modules in the base price proposal.

Battery (BESS) Requirements

- All buildings that are required by Title 24, Part 6 to have a PV system must also have a battery storage system meeting the minimum qualifications required by Reference Joint Appendix JA12.
- Engineered design and prepared submittals shall follow any Design Standards provided by the Client or Oceanside Unified School District.
- Battery shall be of Lithium-Ion type. Any different chemistry of Lithium-Ion batteries shall be Lithium Manganese (LMO) or Lithium Nickel Manganese Cobalt Oxide (NMC) or Lithium Nickel Cobalt Aluminum Oxide (NCA) or Lithium-Ion Phosphate (LFP).
- Programming and Integration of the Energy Management Storage software and subsequent control schemes shall be included in the installing contractor's scope of work.
- BESS shall be a completed system with cooling system, fire suppression system, water injection system, temperature sensors, humidity controls, localized battery management system (BMS) as appropriate. BESS Controllers shall provide functionalities to interface with Unit controller.

- BESS shall be designed and manufactured with safety and environment as a priority. BESS shall be designed to be fit for the intended purpose and represent good electrical engineering and industry practice. BESS shall be designed and constructed to operate normally within the environmental conditions of the Site - including temperature, humidity, wind speed and altitude.
- BESS must comply with UL 9540A – testing the fire safety hazards associated with propagating thermal runaway within battery systems.
- The BESS is not intended to provide backup power for essential loads. The BESS is currently specified per Title 24 compliance only with respect to energy arbitrage and peak load shed capabilities.
- A centralized BESS solution at ground-level is preferred for the PV canopy approach. The location shall be compliant per 2022 California Fire Code (CFC), Chapter 12, Section 1207 “Electrical Energy Storage Systems”. A DC coupled roof-mounted BESS solution with thermal management technology, similar to the Yotta Energy product, may be considered to support a rooftop PV system. Alternatives may be presented to Oceanside USD prior to start of design.
- A performance method approach to “trade off” (some) required kWh with a larger PV system and/or energy efficiency measures may be considered.
- The documents shall include the cost to obtain DSA approval of the BESS in the base price proposal.
- Design shall be sized to meet the minimum prescriptive PV requirements per Title 24 Section 140.10. Preliminary calculations for Title 24 minimum PV system size is as follows. The design Contractor shall be responsible for final calculations based on recent modeling:

Building A: VAPA and Science Building

Conditioned Floor Area (Estimate): 10,628 sq-ft

PV (kW) Min. (Prescriptive): **34.14kWh / 7.97kW**

Building B: MPR / Gym / Storage

Conditioned Floor Area (Estimate): 14,727 sq-ft

PV (kW) Min. (Prescriptive): **47.33kWh / 11.04kW**

END OF BOD



DRAWINGS

B

DRAWINGS

B

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CONSULTANTS

PROJECT TITLE

JEFFERSON MIDDLE SCHOOL
823 ACACIA AVE, OCEANSIDE, CA 92038



VICINITY MAP



PROJECT SITE

OUSD

ISSUED		
#	DATE	DESCRIPTION
	12/05/2023	DRAFT DESIGN CRITERIA SET

PROJECT IDENTIFICATION
THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTOCAD REV. 12.0. PLEASE REFER TO THE SHEET INDEX FOR THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42". THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF THE ARCHITECT AND SHALL NOT BE USED ON ANY OTHER PROJECT OR LOCATIONS EXCEPT AS DESCRIBED ON THE DRAWINGS, WITHOUT WRITTEN AGREEMENT WITH THE ARCHITECT.

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SHEET TITLE
TITLE SHEET

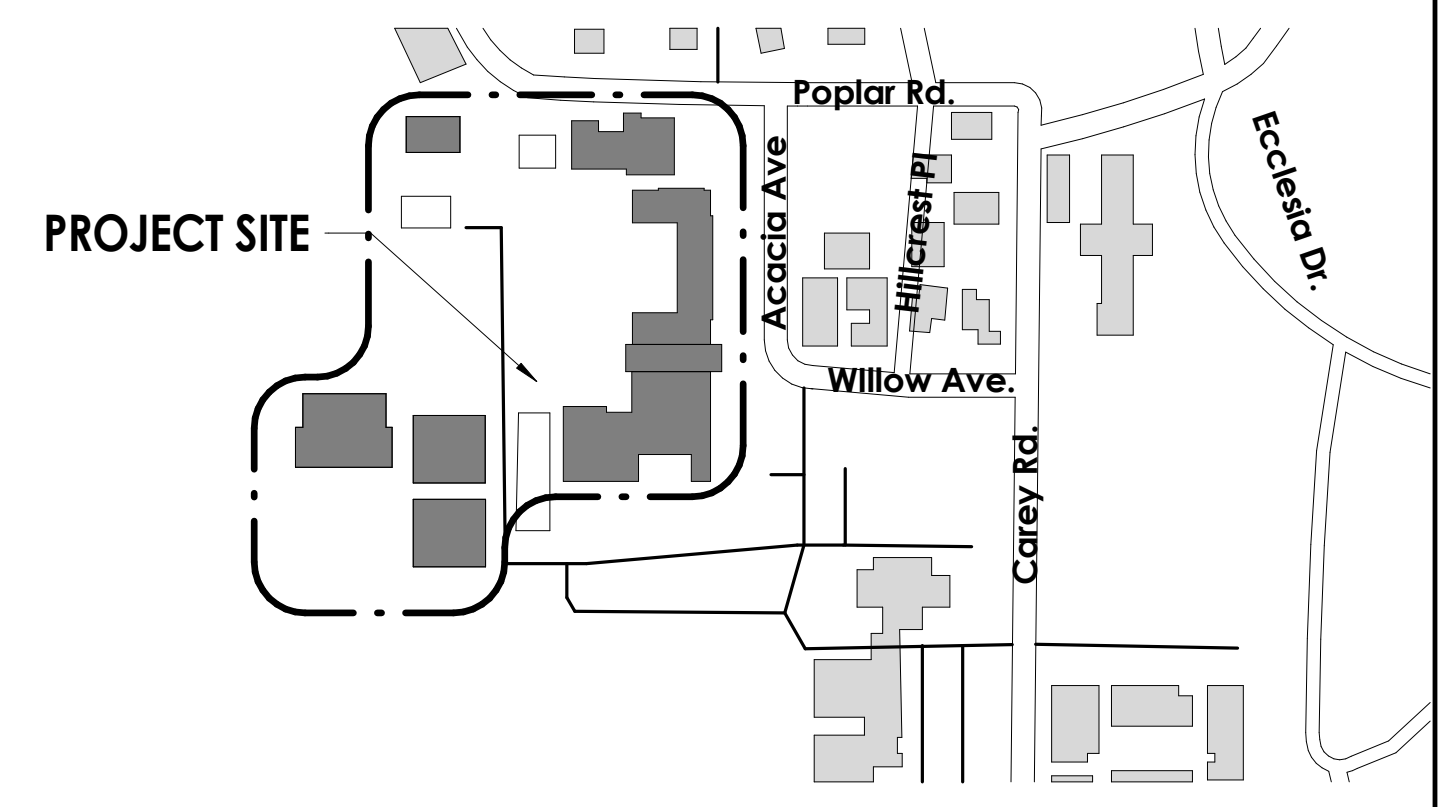
SHEET NUMBER

G-000-2

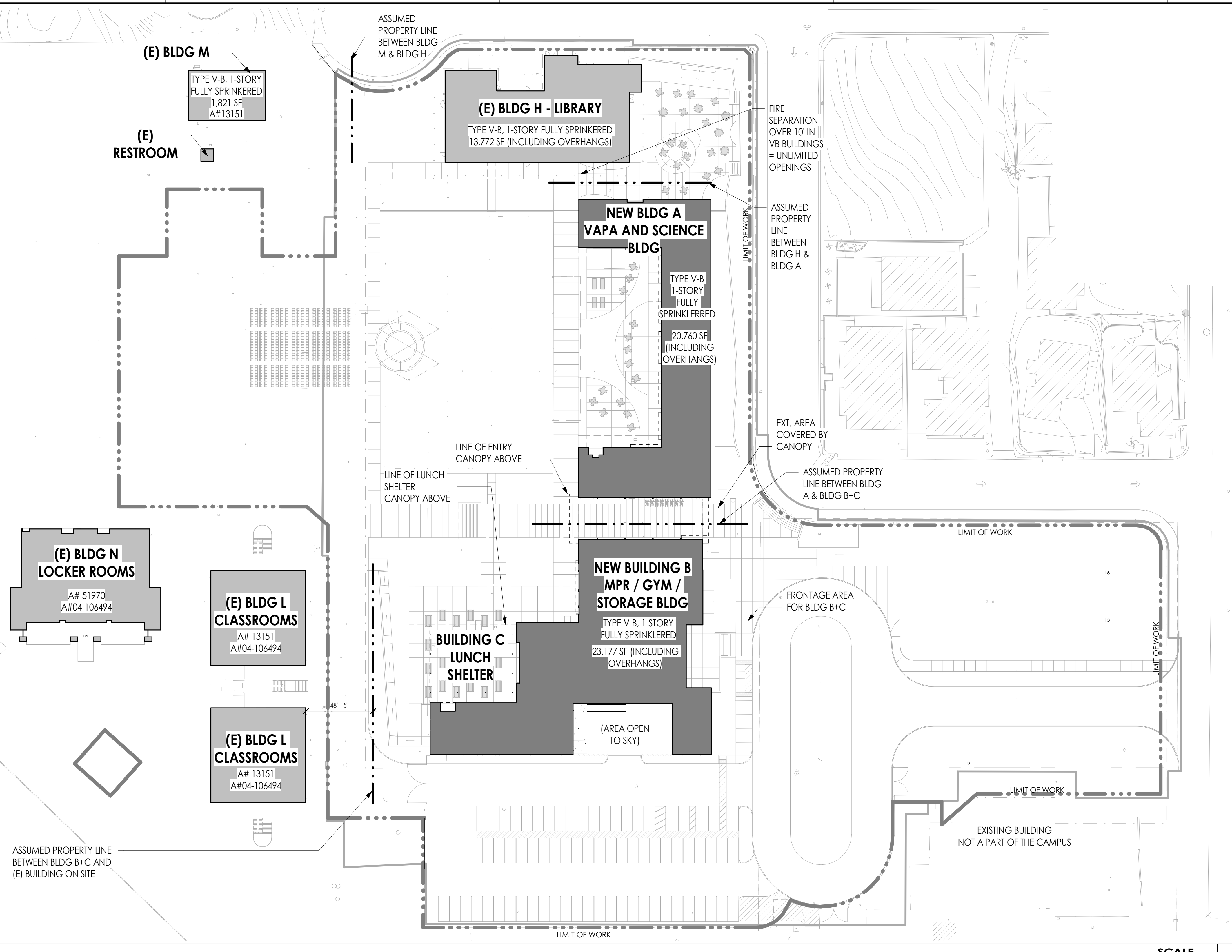
DESIGN CRITERIA SET

SHEET LIST - PACKAGE 2 - PRE-FABRICATED BUILDINGS & SURROUNDING SITE DESIGN CRITERIA	
SHEET NO.	SHEET NAME
G-000-2	TITLE SHEET
G-120-2	CODE ANALYSIS SITE PLAN - DESIGN CRITERIA
G-201-2	CODE ANALYSIS CRITERIA FLOOR PLAN - (N) BUILDING B - MODULAR ADMIN & GYMNASIUM BUILDING
AS116-2	PHASE 4 - SITE IMPROVEMENT PLAN
A-101-A	BLDG A - FIRST FLOOR PLAN
A-120-A	BLDG A - ROOF PLAN
A-130-A	BLDG A - REFLECTED CEILING PLAN
A-201-A	BLDG A - EXTERIOR ELEVATIONS
A-301-A	BLDG A - BUILDING SECTIONS
A-450-A	BLDG A - MATERIAL AND FINISH PLAN AND SCHEDULE
A-101-B	BLDG B - FIRST FLOOR PLAN
A-120-B	BLDG B - ROOF PLAN
A-130-B	BLDG B - REFLECTED CEILING PLAN
A-201-B	BLDG B - EXTERIOR ELEVATIONS
A-301-B	BLDG B - BUILDING SECTIONS
A-450-B	BLDG B - MATERIAL AND FINISH PLAN AND SCHEDULE

CAMPUS MAP / KEY PLAN



PROJECT SITE



SITE PLAN - CODE ANALYSIS - FUTURE BUILDINGS SCALE 1" = 40'-0" 3

PLUMBING CALCULATION CODE ANALYSIS

CODE CALCULATIONS PER 2022 CBC TABLE 422.1 AND TABLE A.

BUILDING A: VAPA AND SCIENCE BUILDING

E OCCUPANCY	SF	LOAD FACTOR	OCCUPANTS
CLASSROOM	6,941 SF	30	232
LABORATORY	2,491 SF	50	50
STORAGE	451 SF	4000	1
TOTAL: 283 (142 M, 142 F)			

BUILDING B: MPR / GYM / STORAGE

A-2 OCCUPANCY	SF	LOAD FACTOR	OCCUPANTS
FOOD PREP	1506 SF	50	31
SERVING	430 SF	30	15
OFFICE	105 SF	150	1
STORAGE	549 SF	4000	1
TOTAL: 48 (24 M, 24 F)			

BUILDING B+C: MPR / GYM / STORAGE + LUNCH SHELTER

A-3 OCCUPANCY	SF	LOAD FACTOR	OCCUPANTS
GYM & STAGE	6,379 SF	11	580
STORAGE	879 SF	4000	1
TOTAL: 581 (291 M, 291 F)			

BUILDING C: LUNCH SHELTER

B OCCUPANCY	SF	LOAD FACTOR	OCCUPANTS
OFFICE	4,052 SF	150	28
CONF. / LOUNGE	955 SF	30	32
TOTAL: 60 (30 M, 30 F)			

DRINKING FOUNTAINS

OCCUPANCY	TOTAL OCCS	OCC LOAD	REQUIRED
B & E	343	1:150	3
A-2 & A-3	631	1:250	3

TOTAL PLUMBING FIXTURES REQUIRED FOR WHOLE CAMPUS

	MALE W.C.	FEMALE W.C.	URINAL	M LAVS	F LAVS	DF
TOTAL REQUIRED	11	19	9	12	13	12
TOTAL PROVIDED	11	20	9	12	13	12

*50% OF GENDER-NEUTRAL RESTROOMS INCLUDED IN MALE FIXTURE COUNTS AND 50% INCLUDED IN FEMALE FIXTURE COUNTS

NOTE: TOTAL NUMBER OF FIXTURES TO BE PROVIDED IN BUILDINGS A & B ARE BASED ON REQUIRED NUMBER OF FIXTURES FOR THE WHOLE CAMPUS EXCLUDING THE TEMPORARY RESTROOM FIXTURES PROVIDE AS AN INTERIM CONDITION.

BUILDING CODE ANALYSIS

PER CBC 503.1.2 & CBC 705.3, BUILDINGS ON THE SAME LOT CAN BE COUNTED AS SEPARATE BUILDINGS IF SEPARATED BY AN ASSUMED IMAGINARY PROPERTY LINE OR THEY CAN BE CONSIDERED PORTIONS OF ONE BUILDING WHERE THE BUILDING HEIGHT, NUMBER OF STORIES OF EACH AREA AND THE AGGREGATE BUILDING AREA OF THE BUILDINGS ARE WITHIN THE LIMITS SPECIFIED IN CBC 504 & 506.

BUILDINGS B & C ARE CONSIDERED PORTIONS OF ONE BUILDING AND ARE SEPARATED FROM BUILDING A BY AN ASSUMED IMAGINARY PROPERTY LINE.

BUILDING A: VAPA AND SCIENCE BUILDING

TYPE OF CONSTRUCTION:	TYPE VB	602.5
OCCUPANCY GROUP:	NON-SEPARATED OCCUPANCIES (E, S)	508.3
SPRINKLERED:	YES	903.3.1.1
ALLOWABLE BLDG HEIGHT:	40'	504.3
ACTUAL BLDG HEIGHT:	18'	
ALLOWABLE # OF STORIES:	1	504.4
ACTUAL # OF STORIES:	1	
ALLOWABLE AREA:	38,000	506
GROUP E (MOST RESTRICTIVE OCCUPANCY):		506.2.2
A ₀ = A ₁ + (NS x I) ₁		
A ₁ = 38,000		
NS = 9,500		
I ₁ = 0 (NO FRONTAGE INCREASE TAKEN)		
A ₀ = 38,000 + (9,500 x 0)		
A ₀ = 38,000 SF		
ACTUAL BUILDING AREA:	20,760 SF < 38,000 SF	

BUILDINGS B + C: MPR / GYM / STORAGE + LUNCH SHELTER

TYPE OF CONSTRUCTION:	TYPE VB	602.5
OCCUPANCY GROUP:	NON-SEPARATED OCCUPANCIES (A-2, A-3, B, S)	508.3
SPRINKLERED:	YES	903.3.1.1
ALLOWABLE BLDG HEIGHT:	40'	504.3
ACTUAL BLDG HEIGHT:	35'	
ALLOWABLE # OF STORIES:	1	504.4
ACTUAL # OF STORIES:	1	
ALLOWABLE AREA:	24,000	506
GROUP A-3 (MOST RESTRICTIVE OCCUPANCY):		506.2.2
A ₀ = A ₁ + (NS x I) ₁		
A ₁ = 24,000		
NS = 6,000		
I ₁ = 0.75		
A ₀ = 24,000 + (6,000 x 0.75)		
A ₀ = 28,500 SF		
ACTUAL BUILDING AREA:	23,177 SF < 28,500 SF	

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SEAL

CONSULTANTS

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OUSD

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12/05/2023		DRAFT DESIGN CRITERIA SET

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SHEET TITLE
CODE ANALYSIS SITE PLAN - DESIGN CRITERIA

SHEET NUMBER
G-120-2

DESIGN CRITERIA SET

CODE ANALYSIS SITE PLAN - LEGEND

P.O.T. PATH OF TRAVEL (P.O.T.) NOTES:

- PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESSIBLE ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT A SLOPE NOT STEEPER THAN 1:2, EXCEPT THAT LEVEL CHANGES ARE 1/4" MAXIMUM VERTICAL, AND IS AT LEAST 48" WIDE.
- SURFACE SHALL BE STABLE, FIRM AND SLIP RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND RUNNING SLOPE SHALL NOT BE STEEPER THAN 1:20 UNLESS OTHERWISE INDICATED (SECTION 118-403.3).
- P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN. (SECTION 118-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL SURFACE BETWEEN 27" AND 80" ABOVE FINISH FLOOR OR GROUND (SECTION 118-307.2)
- PROVIDE FLUSH TRANSITIONS AT ANY ADJOINING JOINTS BETWEEN NEW AND EXISTING (E) WALK SURFACES IN P.O.T.
- ARCHITECT TO VERIFY THAT THERE ARE NO BARRIERS IN THE P.O.T. AND THAT ALL P.O.T. COMPLY WITH SECTION 118-206.

NOTE: DESIGN BUID CONTRACTOR RESPONSIBLE FOR COORDINATING DOOR LOCATIONS AND FINISH FLOOR ELEVATIONS WITH THE MODERNIZATION DESIGN TEAM TO ENSURE ACCESSIBLE PATH OF TRAVEL TO THE BUILDING IS ACHIEVED

	ASSUMED PROPERTY LINE		EXISTING BUILDING RENOVATION
	RIGHT OF WAY		EXISTING BUILDING MAINTENANCE
	LIMIT OF WORK		FUTURE BUILDING N.L.C.
	DRINKING FOUNTAIN		OVERHANG OF CANOPY ABOVE
	BOY'S RESTROOM		FIRE LANE
	GIRL'S RESTROOM		
	UNISEX RESTROOM		1. CLEAR WIDTH OF NOT LESS THAN 20"
	STAIRS		2. VERTICAL CLEARANCE OF NOT LESS THAN 13'-0"
	ELEVATOR		3. FIRE LANE PAVING TO MEET 14-20 LOADING REQUIREMENTS SEE 4104.11
	EXISTING BUS STOP		4. MINIMUM INSIDE RADIUS FOR TURNS = 28'
			5. REFER TO PAVEMENT LEGEND ON SHEET C2-30C AND DETAIL 17/C2-31C FOR TYPICAL PAVEMENT SECTION
			FIRE HYDRANT

FIRE SPRINKLER SYSTEM

FULL AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE BUILDING AREA.

FIRE RESISTANCE RATINGS REQUIREMENTS - TYPE VB - TABLE 601

	0 HOUR	0 HOUR	0 HOUR
STRUCTURAL FRAME			
EXTERIOR BEARING WALLS			
INTERIOR BEARING WALLS			
EXTERIOR NON-BEARING WALLS	SEE BELOW		
INTERIOR NON-BEARING WALLS AND PARTITIONS	0 HOUR		
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	0 HOUR		
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	0 HOUR		

FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE - TYPE VB - TABLE 705.5

FIRE SEPARATION DISTANCE	TYPE OF CONSTRUCTION	OCCUPANCY (A, B, E, S-2)
10 ≤ X < 30	VB	0 HOUR
X ≥ 30	ALL	0 HOUR

MAXIMUM AREA OF EXTERIOR WALL OPENINGS - TYPE VB - TABLE 705.8

FIRE SEPARATION DISTANCE	DEGREE OF OPENING PROTECTION	ALLOWABLE AREA
0'-0"	UNPROTECTED, SPRINKLERED	NOT PERMITTED
3'-0"	UNPROTECTED, SPRINKLERED	15%
5'-0"	UNPROTECTED, SPRINKLERED	25%
≥ 10'	UNPROTECTED, SPRINKLERED	NO LIMIT *

* PER CBC 705.8.1, EXCEPTION 2. BUILDINGS WHOSE EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS AND EXTERIOR PRIMARY STRUCTURAL FRAME ARE NOT REQUIRED TO BE FIRE-RESISTANCE RATED SHALL BE PERMITTED TO HAVE UNLIMITED UNPROTECTED OPENINGS.

APPLICABLE CODES

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
[2021] INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
[2020] NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
[2021] IAQMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
[2021] IAQMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
[2021] INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, ALSO INCLUDES PARTS 8 & 12 TITLE 24 CCR
[2021] INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS (PART 12, TITLE 24, CCR)
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

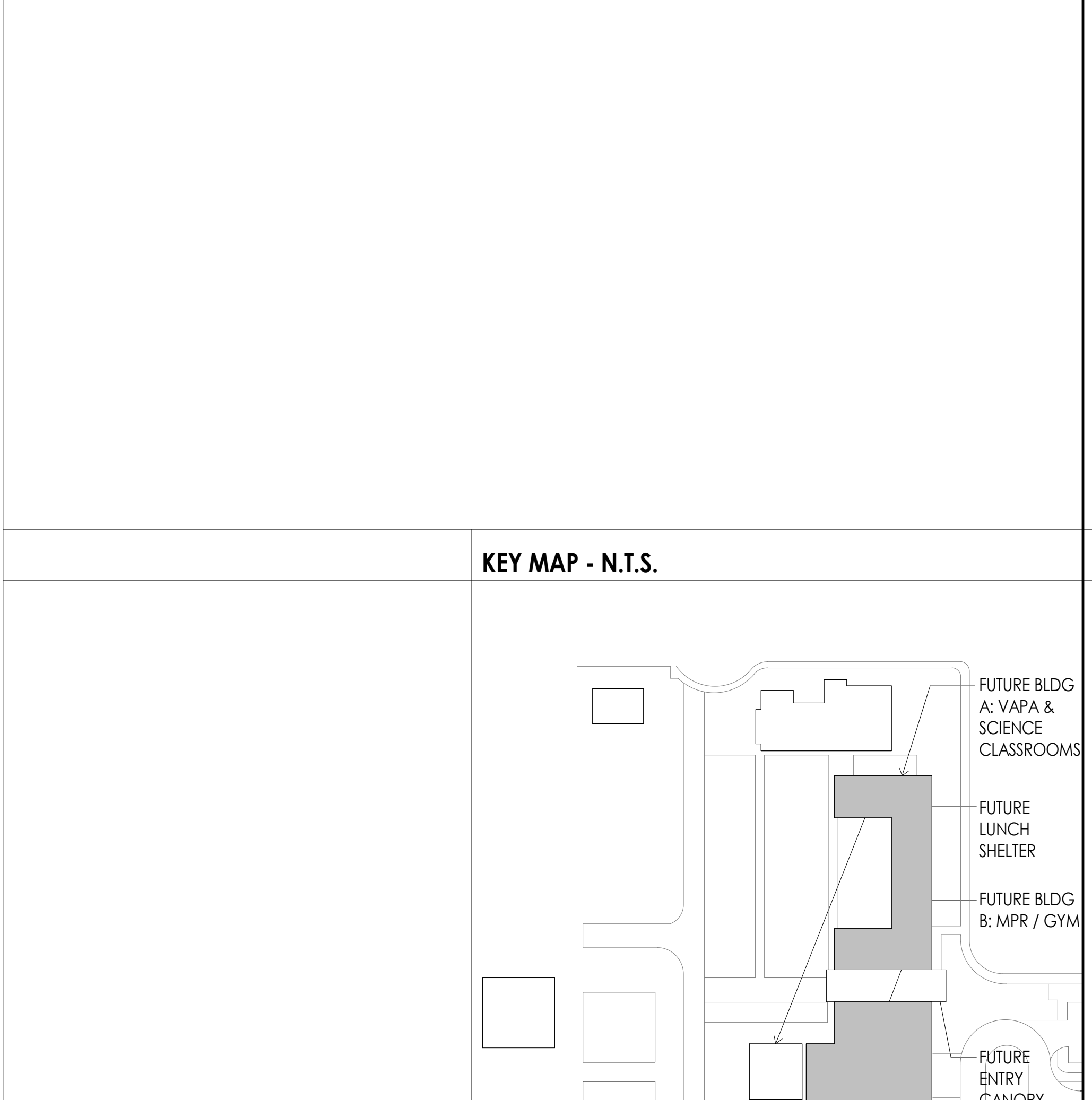
*As of January 1, 2023

PARTIAL LIST OF APPLICABLE STANDARDS

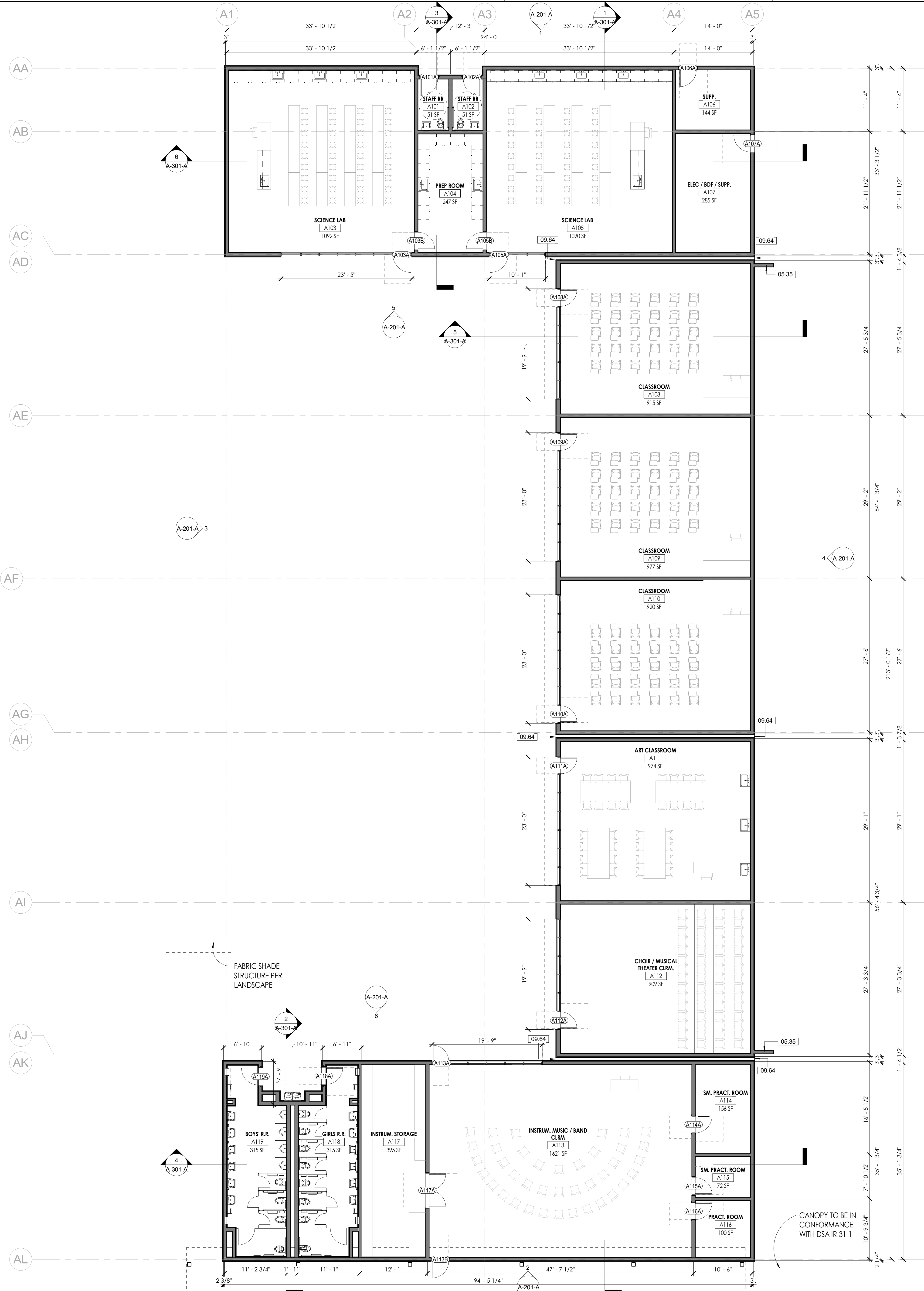
NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) 2022 EDITION
NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS 2024 EDITION
NFPA 17 STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS 2024 EDITION
NFPA 17A STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS 2024 EDITION
NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES 2022 EDITION
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2022 EDITION
NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES 2022 EDITION
NFPA 2001 STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2022 EDITION
UL 300 STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT 2019 EDITION
UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES 2023 EDITION
UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS 2023 EDITION
UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED 2004 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (FPM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECAME EFFECTIVE JANUARY 1, 2023



12/11/2023 3:35:56 PM BM 3607 Jefferson Middle School/Jefferson Middle School Arch DB 020 Central/V



KEYNOTES	
05.35	WINDOW SHADE EYEBROW WITH ALUCOBOND METAL FINISH
09.64	SEISMIC JOINT COVER - FLAT

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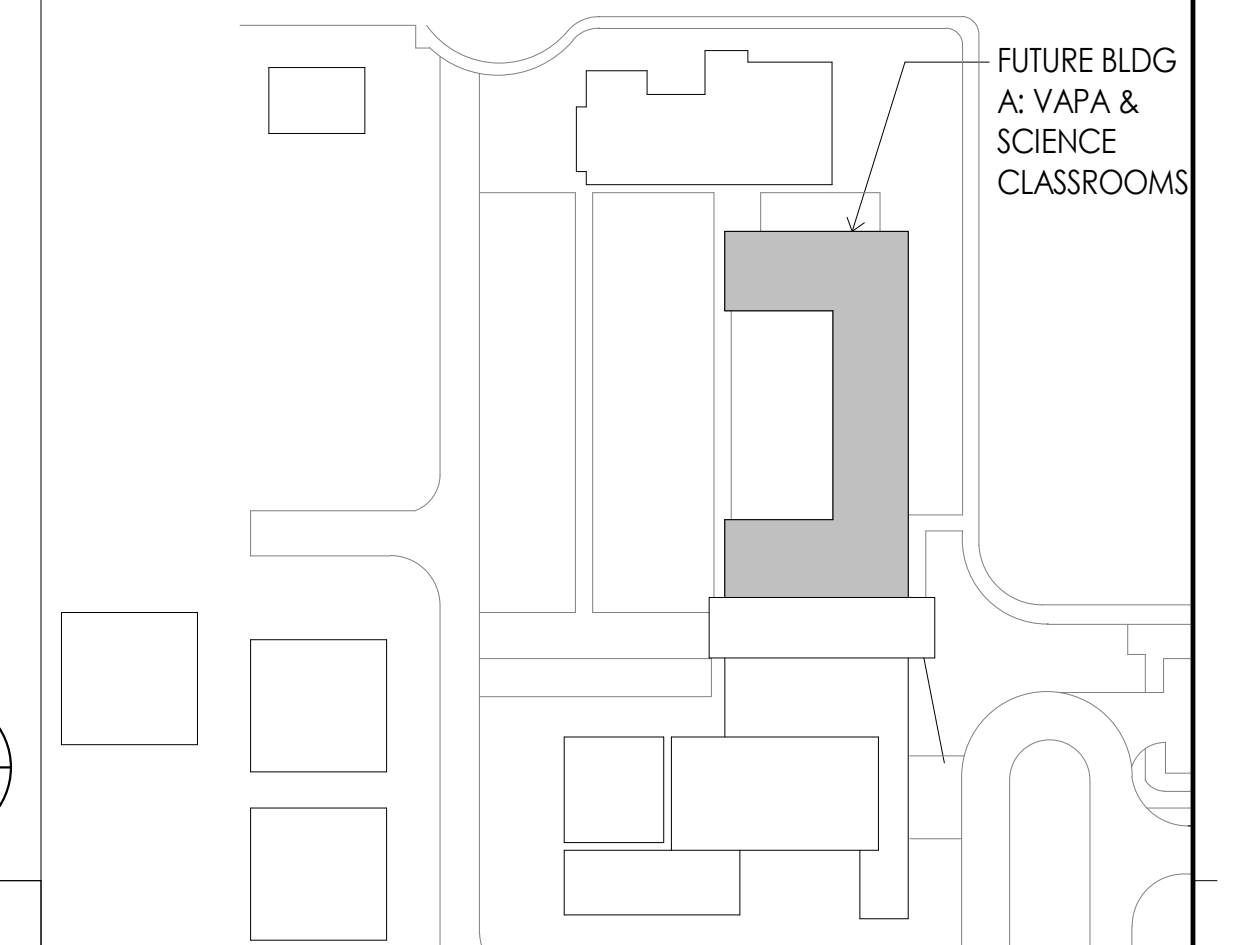
SHEET TITLE
 BLDG A - FIRST FLOOR
 PLAN

SHEET NUMBER

A-101-A

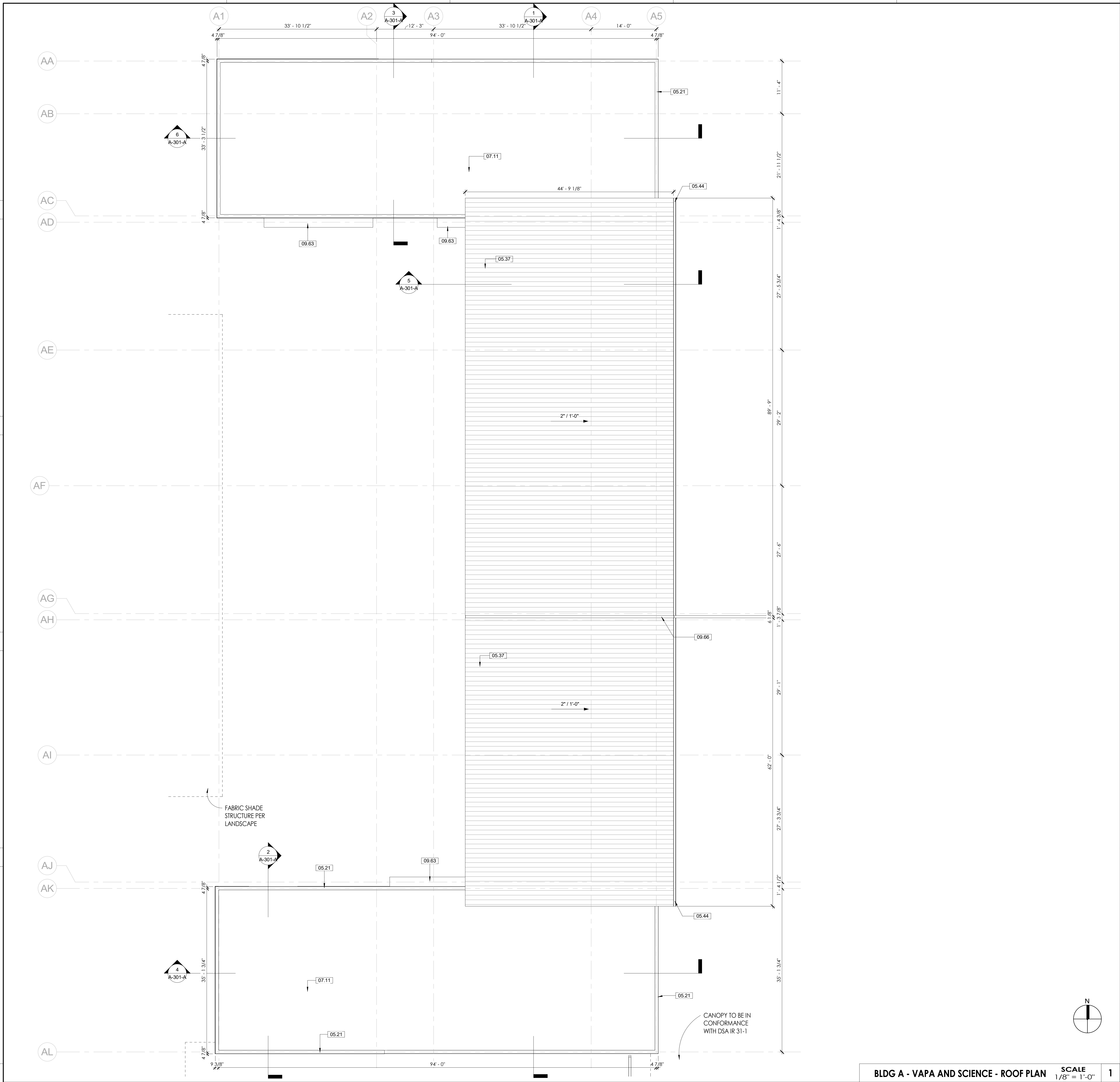
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KEY MAP - N.T.S.



BLDG A - VAPA AND SCIENCE - FIRST FLOOR PLAN SCALE 1/8" = 1'-0" **1**

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BLDG A - VAPA AND SCIENCE - ROOF PLAN SCALE 1/8" = 1'-0" 1

KEYNOTES	
05.21	BONDERIZED METAL PARAPET CAP - PAINTED WHITE
05.37	STANDING SEAM METAL ROOF
05.44	BONDERIZED METAL GUTTER - PAINTED WHITE, TYP.
07.11	POLYVINYL-CHLORIDE (PVC) ROOFING, FULLY ADHERED OVER 1/4" DENSIBLOCK OVER R-30 RIGID INSULATION OVER CONCRETE, CLASS 'A' ASSEMBLY, BASIS OF DESIGN: SARNAFIL - SEE SPEC SECTION 075419
09.63	OVERHANG PAINTED AESS WITH INTEGRAL LOUVERS
09.66	SEISMIC JOINT COVER - HALF CIRCLE

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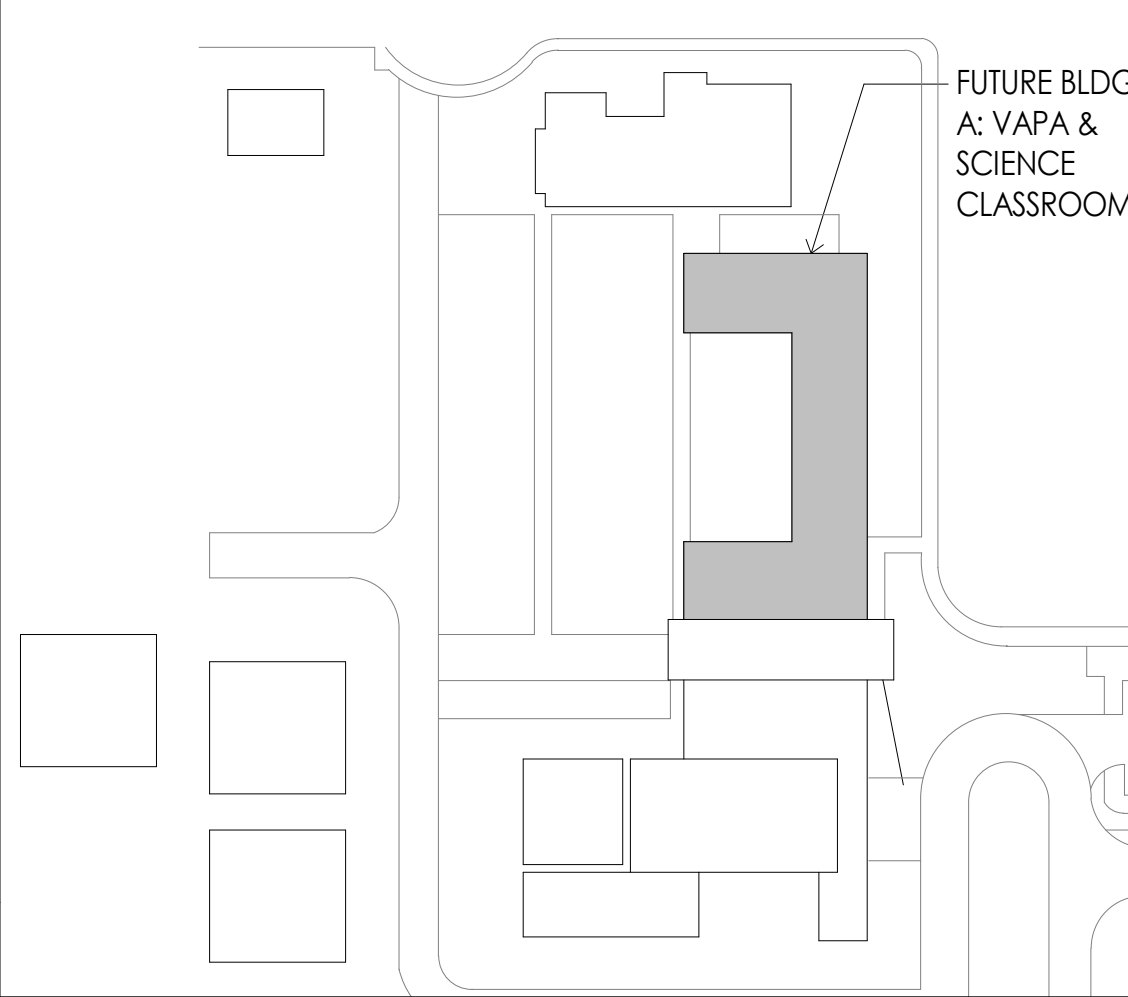
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KEY MAP - N.T.S.



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SHEET TITLE
BLDG A - ROOF PLAN

SHEET NUMBER

A-120-A

DESIGN CRITERIA SET

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RCP CEILING TYPE

CEILING TYPE	GRAPHICS	DESCRIPTION
ACT-1		2 x 4 SUSPENDED ACOUSTICAL TILE ARMSTRONG CEILINGS, FINE FISSURED SECOND LOOK
ACT-2		LINEAR ACOUSTIC CEILING TILE ARMSTRONG CEILINGS BASIS OF DESIGN: LINEAR WOODWORKS
ACT-3		SEAMLESS ACOUSTIC CEILING TILE BASIS OF DESIGN: DECOUSTICS, CLARO
MP-1		2x2 PERFORATED METAL CEILING SYSTEM WITH ACOUSTICAL BACKING PENDED METAL CEILING SYSTEM
PRF		EXTERIOR PERFORATED METAL CEILING SIM.
GYP-1		GYPSUM BOARD CEILING - PAINTED COLOR P-1 U.O.N.
GYP-2		MOLD TOUCH, GYPSUM BOARD CEILING - PAINTED
EXP-1		INDICATES WHITE MAT-FACED DUCT LINER BOARD ATTACHED TO UNDERSIDE OF STRUCTURE (PAINT ALL EXPOSED DUCTS, PIPES, PIPE GRIDS, ETC. WHITE), PAINTED P-3 SEE SIM.
MP-2		METAL PANEL CEILING

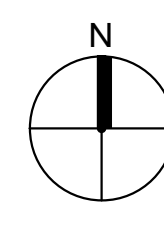
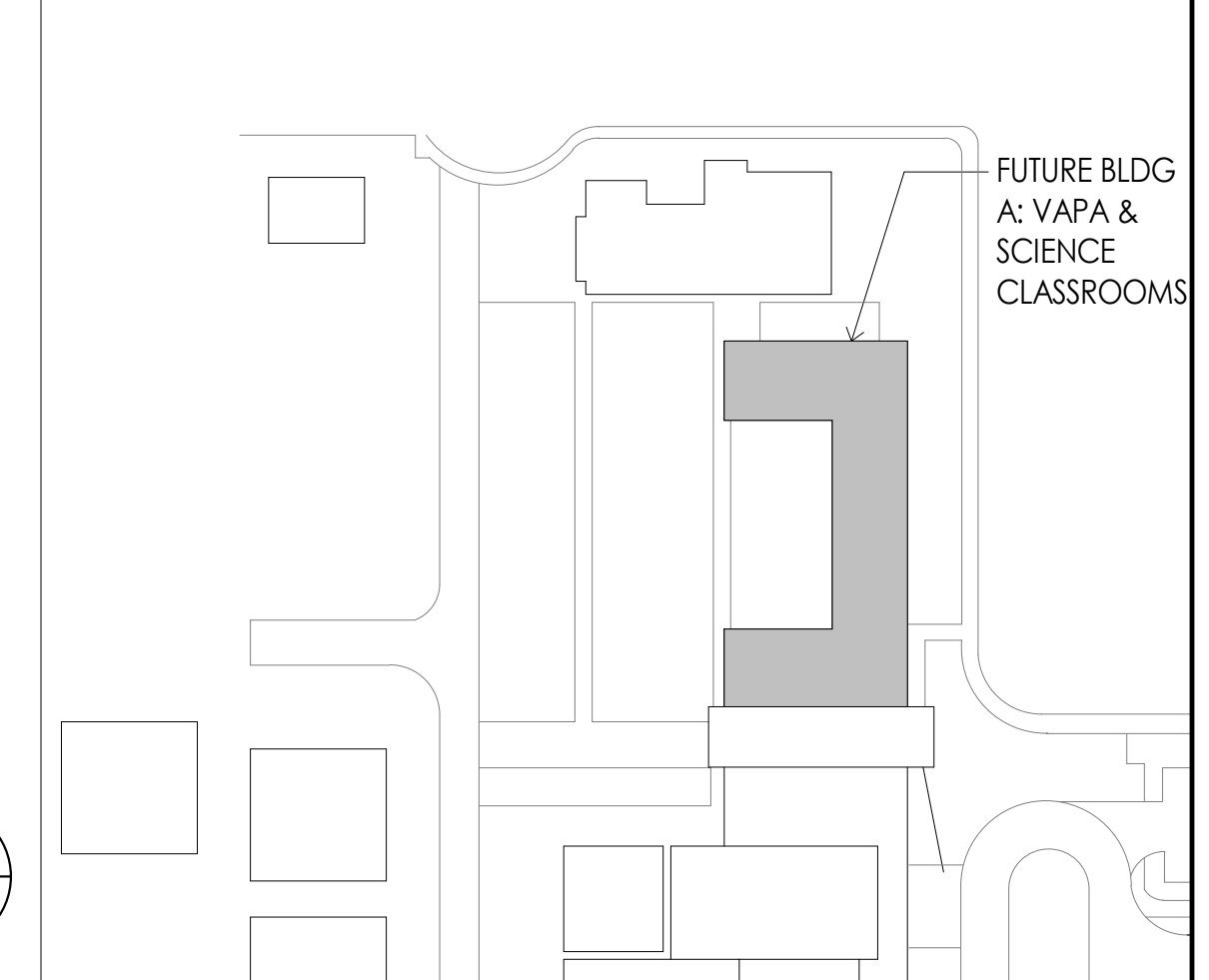
CEILING LEGEND

- L-1: 1x4 LINEAR RECESSED LED LIGHT FIXTURE
- L-2: 2x4 RECESSED LED LIGHT FIXTURE
- L-3: PENDANT LINEAR LIGHT FIXTURE
- L-4: RECESSED LED DOWNLIGHT
- L-5: LINEAR SURFACE MOUNTED LED LIGHT FIXTURE
- L-6: WALL SCENCE
- L-7: WALL WASH LIGHT
- ROLLER SHADE WITH ALUMINUM POCKET - WIDTH OF OPENING U.O.N. SEE RCP. BASIS OF DESIGN: MECHOSHADE SYSTEM, INC. & ARMSTRONG AIXOM SHADE POCKET
- RECESSED PROJECTOR SCREEN SEE
- PROJECTOR MOUNT. BASIS OF DESIGN - PEELESS INDUSTRIES, MODEL PRS-UNV SEE

KEYNOTES

05.43	EXTERIOR 'EYEBROW' - METAL PANEL FINISH
09.51	SLOPED CEILING, SEE BUILDING SECTION FOR CEILING HEIGHT, TYP.
09.63	OVERHANG PAINTED AESS WITH INTEGRAL LOUVERS
09.64	SEISMIC JOINT COVER - FLAT

KEY MAP - N.T.S.



BLDG A - VAPA AND SCIENCE - RCP SCALE 1/8" = 1'-0" 1

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SHEET TITLE
BLDG A - REFLECTED CEILING PLAN

SHEET NUMBER

A-130-A

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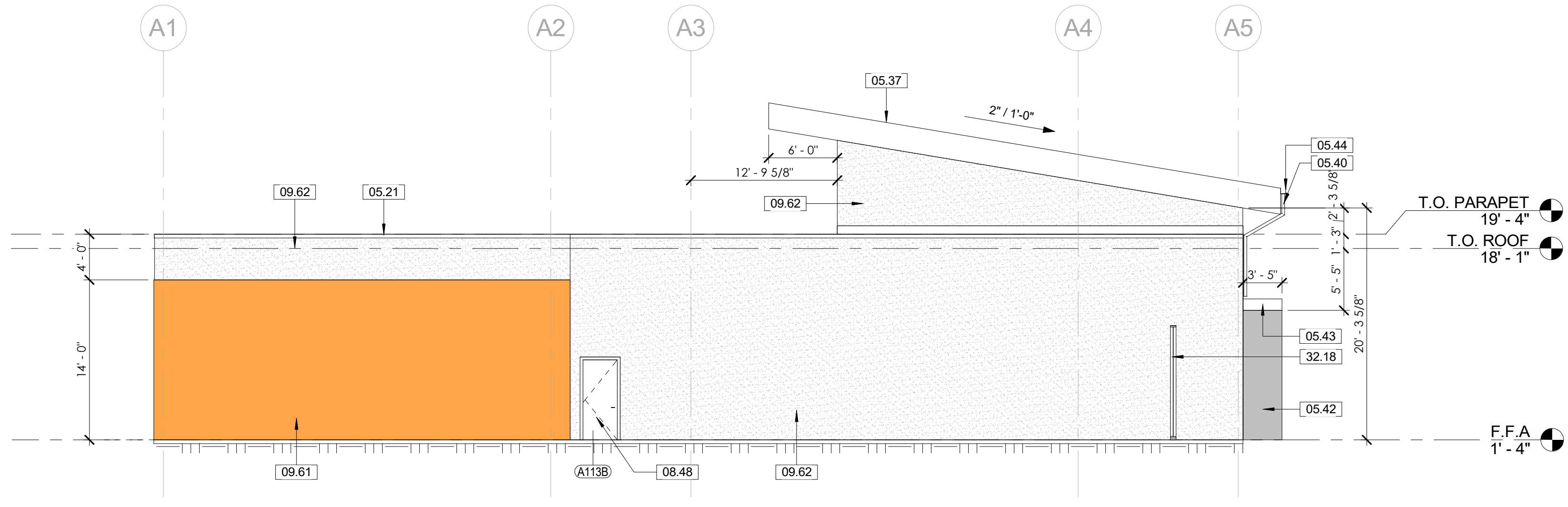
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SHEET TITLE
BLDG A - EXTERIOR ELEVATIONS

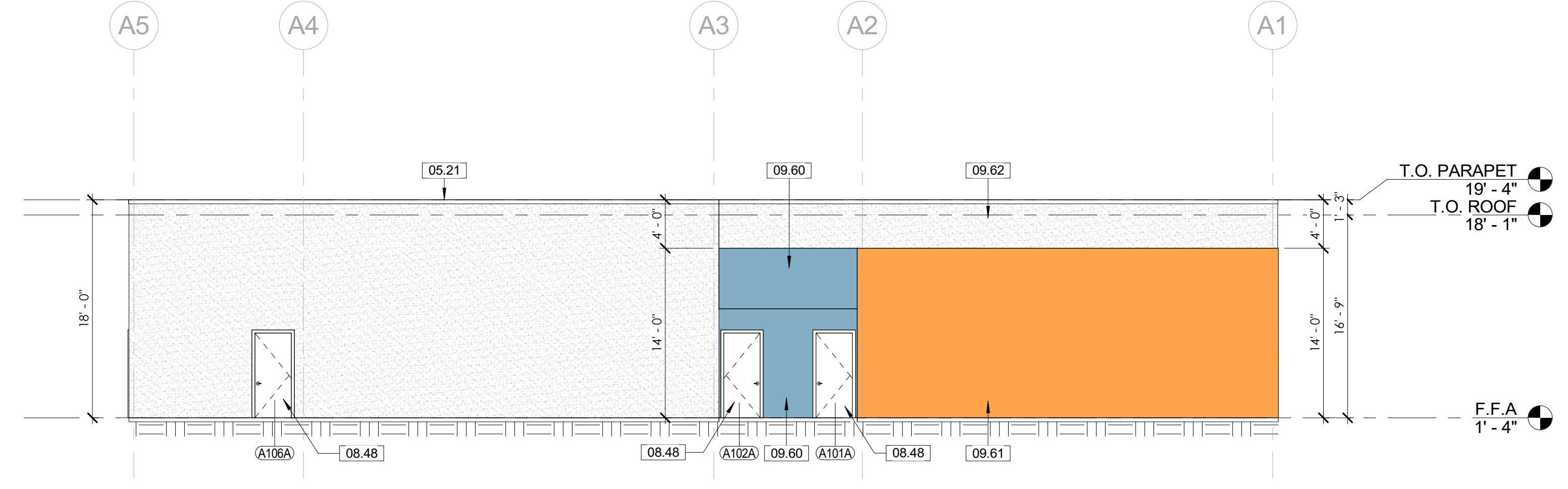
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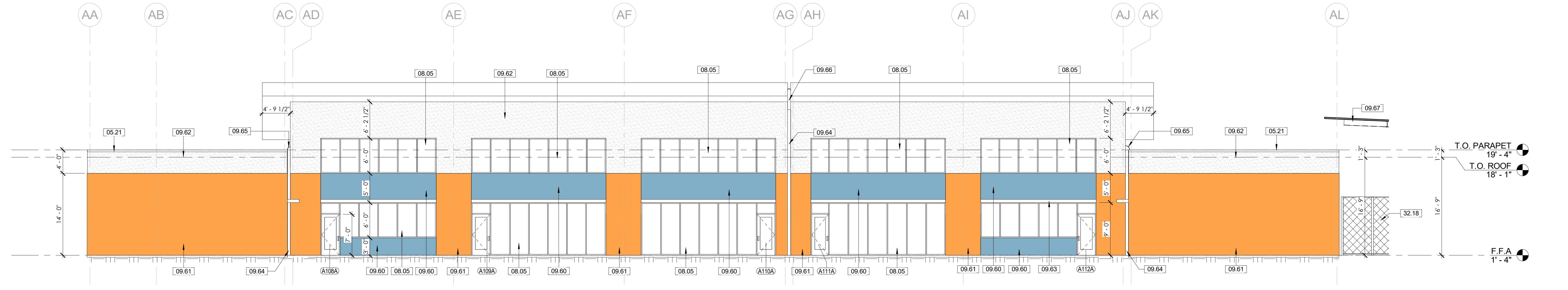
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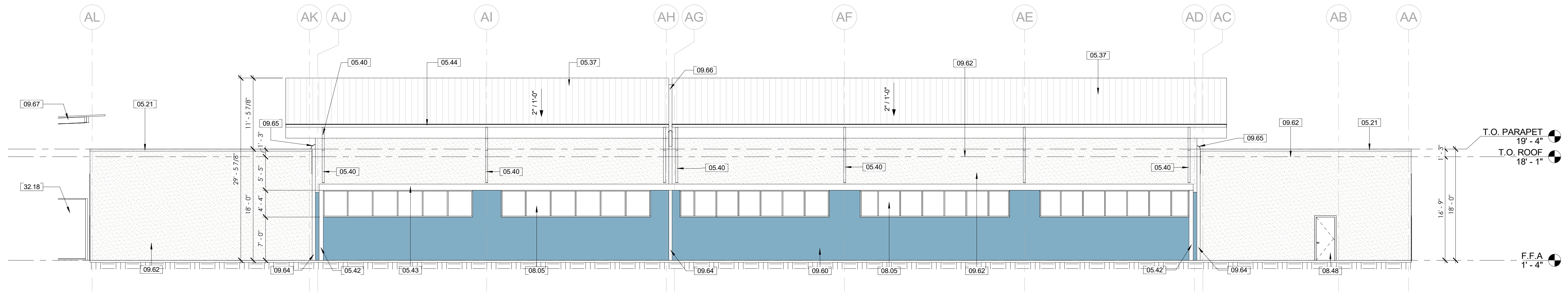
BLDG A - VAPA AND SCIENCE - SOUTH ELEVATION SCALE 1/8" = 1'-0" 2



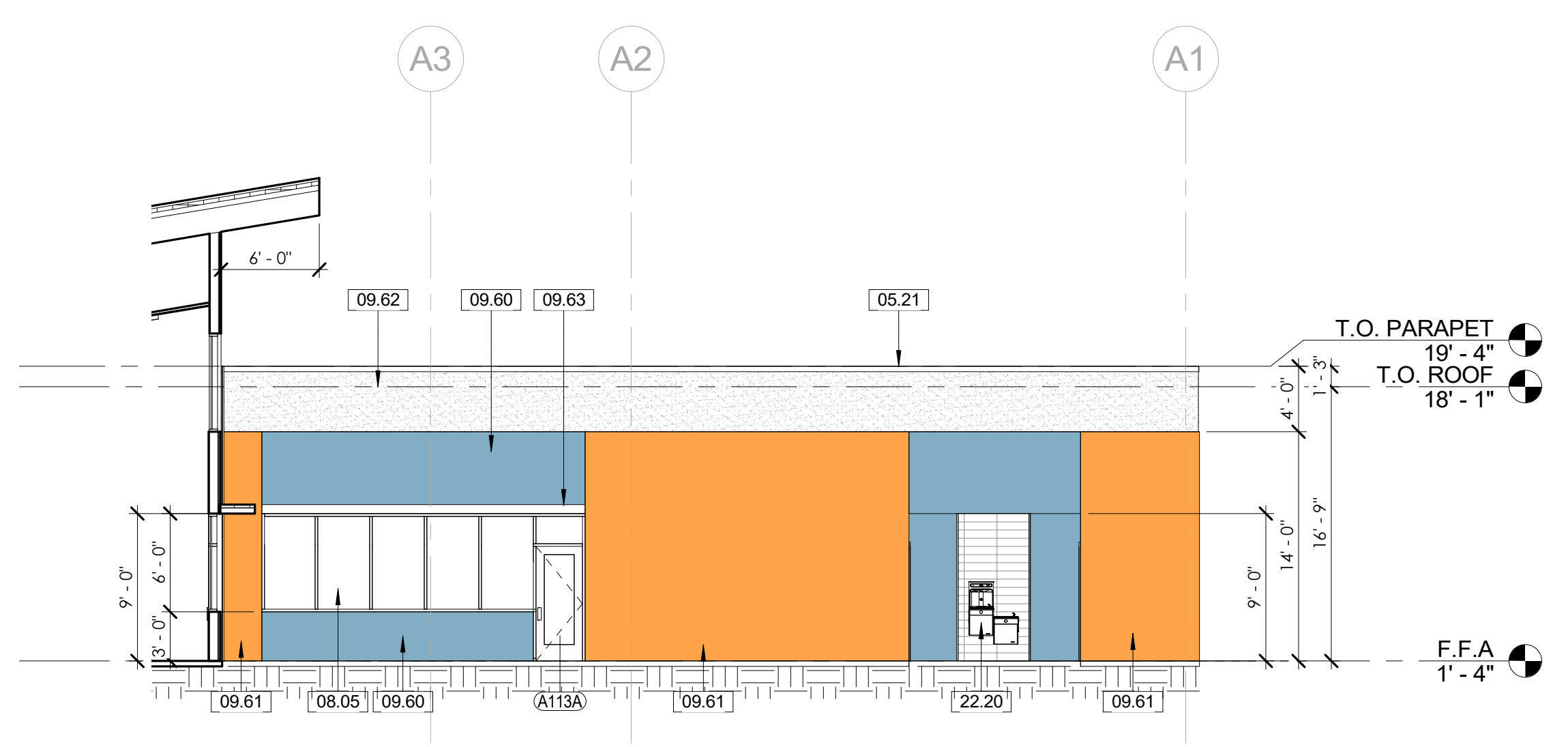
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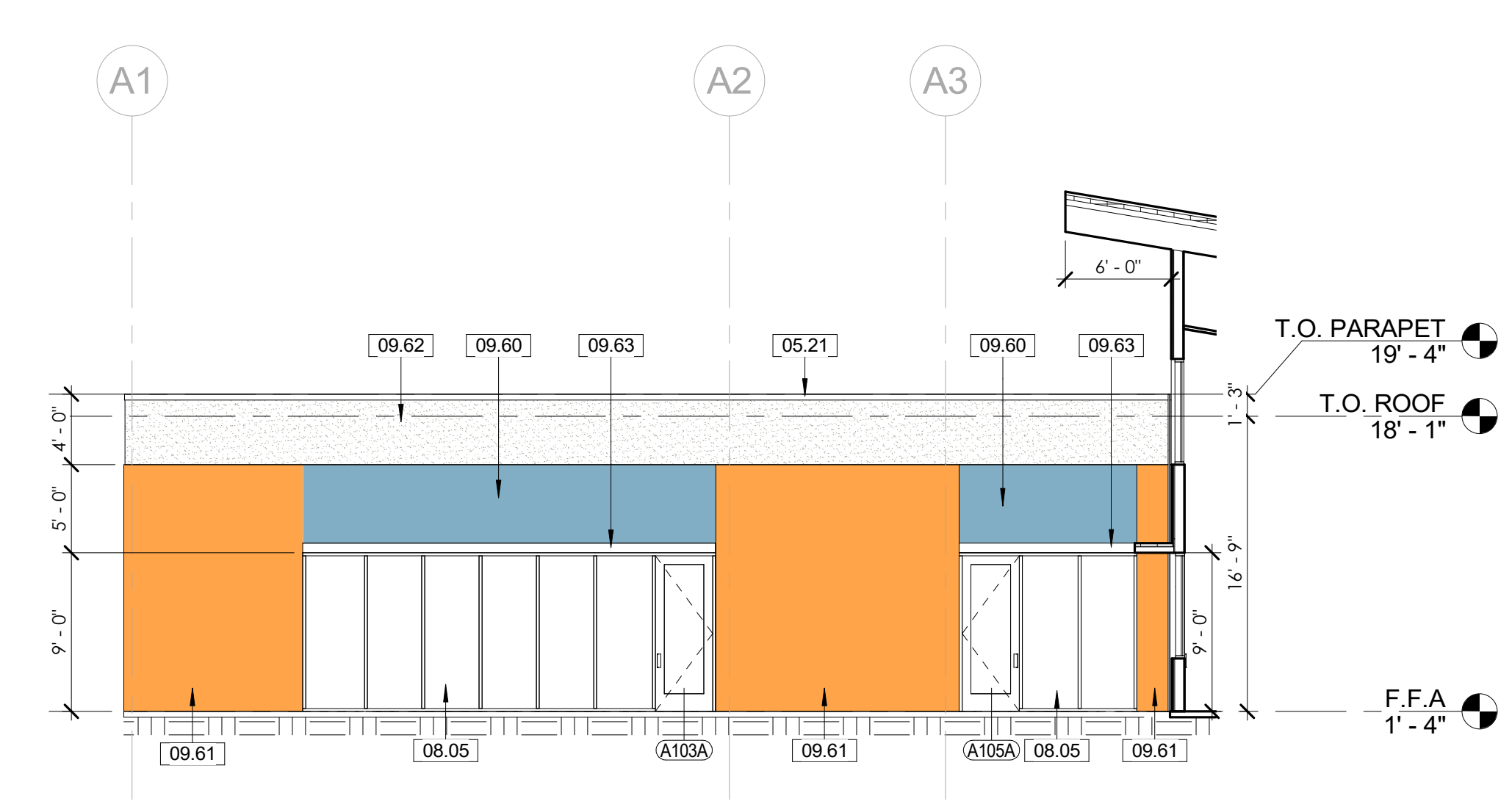
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BLDG A - VAPA AND SCIENCE - EAST ELEVATION SCALE 1/8" = 1'-0" 4



BLDG A - COURTYARD ELEVATION 2 SCALE 1/8" = 1'-0" 6

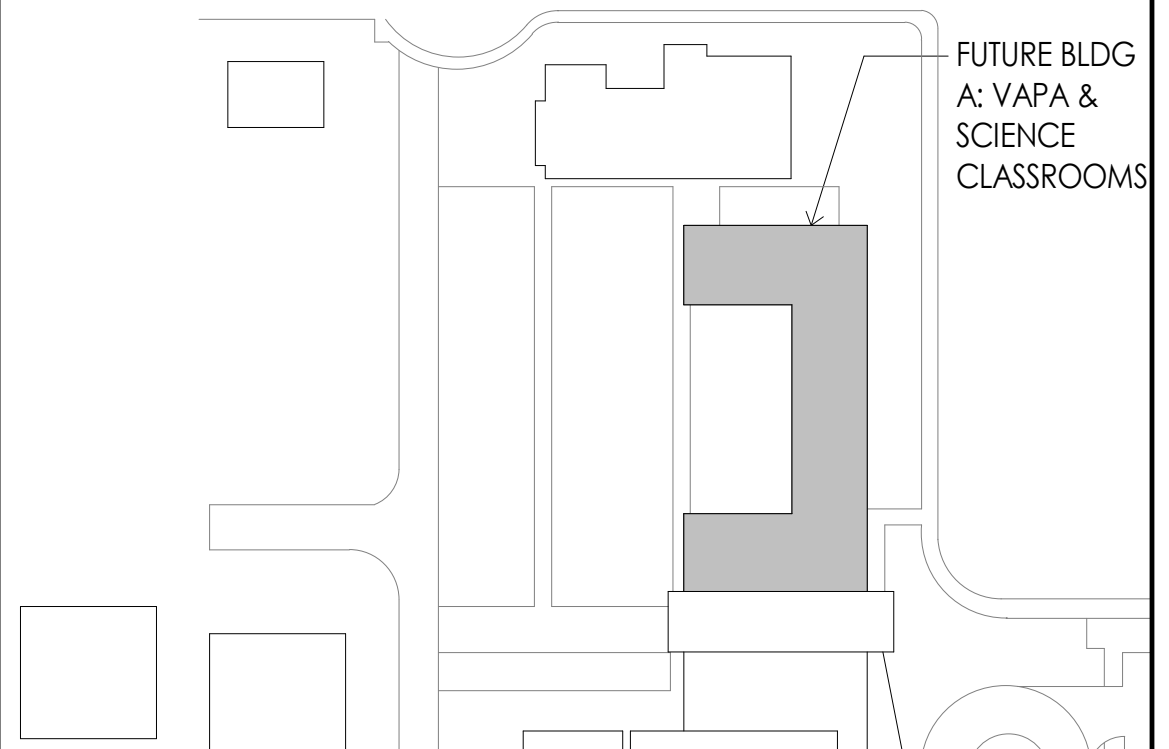


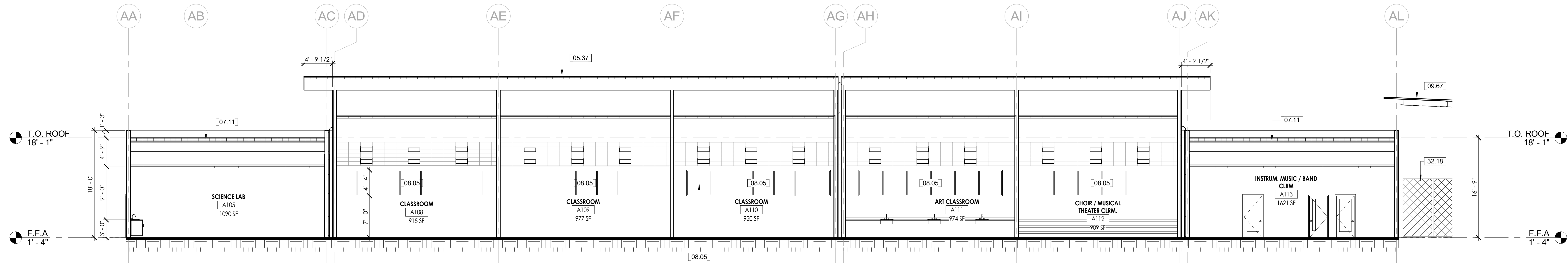
BLDG A - COURTYARD ELEVATION 1 SCALE 1/8" = 1'-0" 5

KEYNOTES

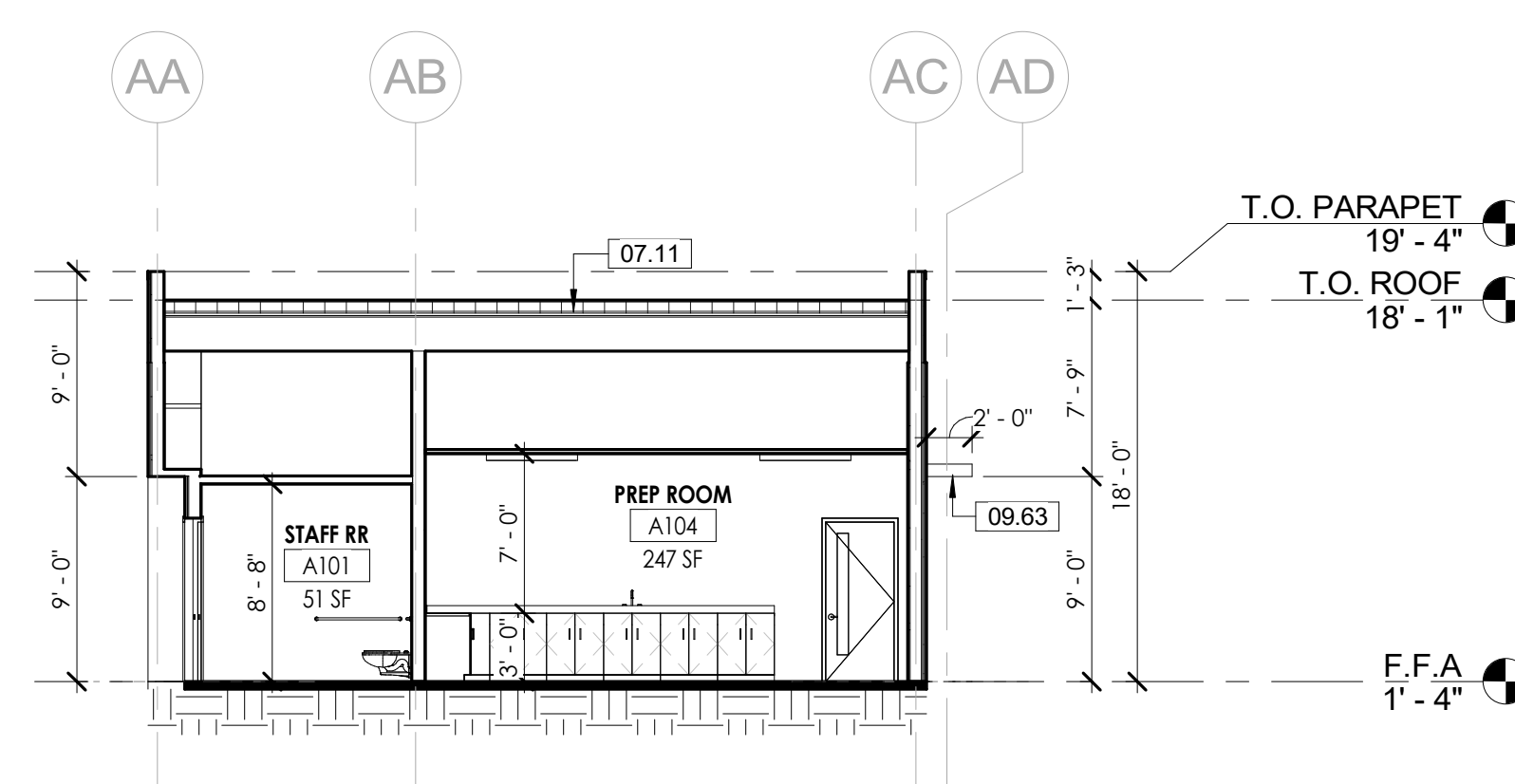
05.21	BONDERIZED METAL PARAPET CAP - PAINTED WHITE
05.37	STANDING SEAM METAL ROOF
05.40	BONDERIZED METAL DOWNSPOUT - PAINTED TO MATCH ADJACENT EXTERIOR WALL, TYP.
05.42	METAL PANEL FINISH WALL
05.43	EXTERIOR 'EYEBROW' - METAL PANEL FINISH
05.44	BONDERIZED METAL GUTTER - PAINTED WHITE, TYP.
08.05	ALUMINUM STOREFRONT WINDOW SYSTEM. SEE WINDOW TYPES - SEE SPEC SECTION 084113
08.48	EXTERIOR DOOR & FRAME. PAINTED TO MATCH ADJACENT WALL
09.40	SWISS PEARL PANEL - BLUE
09.61	SWISS PEARL PANEL - ORANGE
09.62	PLASTER - WHITE
09.63	OVERSHANG PAINTED AESS WITH INTEGRAL LOUVERS
09.64	SEISMIC JOINT COVER - FLAT
09.65	SEISMIC JOINT COVER - QUARTER CIRCLE
09.66	SEISMIC JOINT COVER - HALF CIRCLE
09.67	ENTRY CANOPY - PROVIDE IN ACCORDANCE WITH DSA IR 31-1
22.20	HI-LOW DRINKING FOUNTAIN - SEE PLUMBING DRAWINGS
32.18	AESS FENCE POST, AND PANEL FRAMES WITH STAINLESS STEEL DECORATIVE MESH INSERTS. PROVIDE ACCESSIBLE DOUBLE GATES AND HARDWARE REQUIRED FOR EGRESS

KEY MAP - N.T.S.

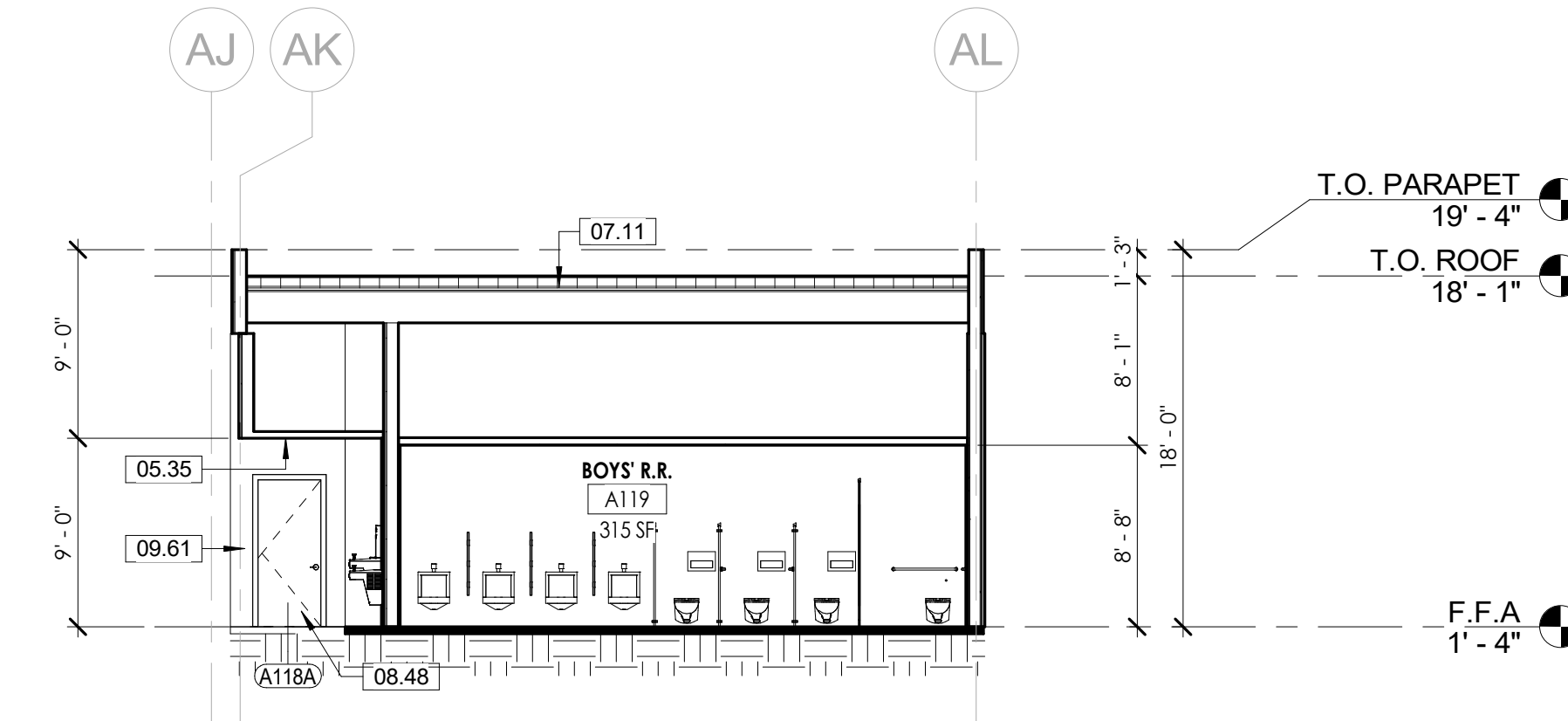




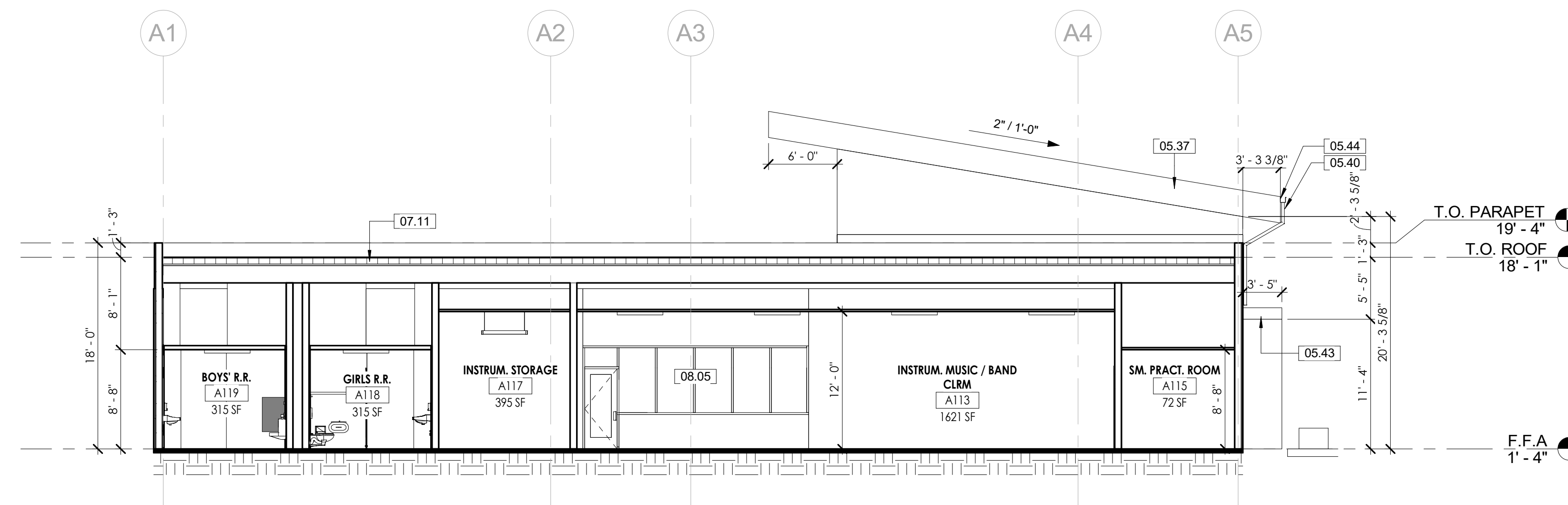
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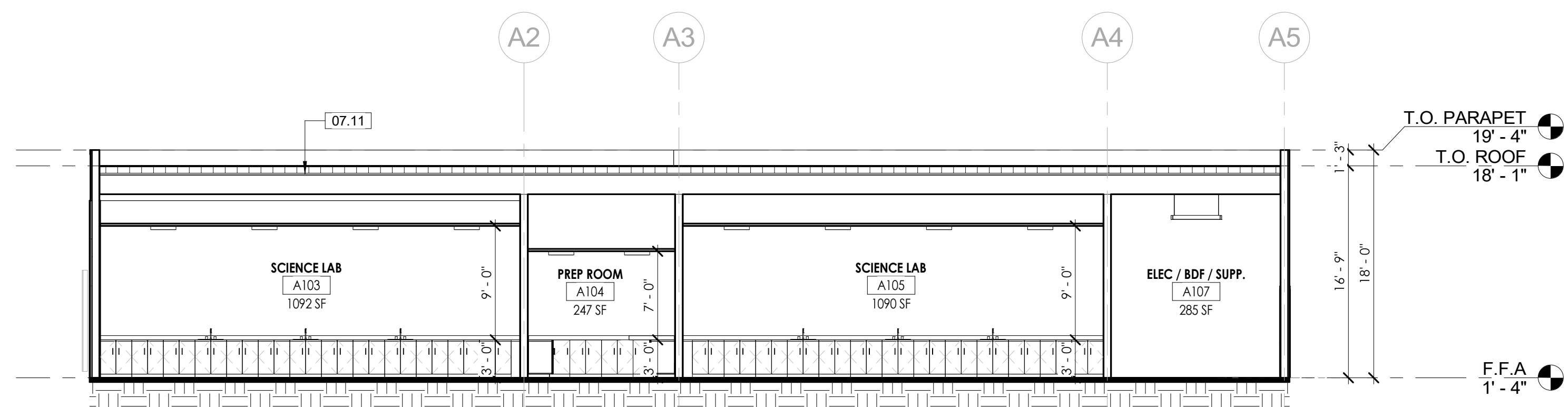
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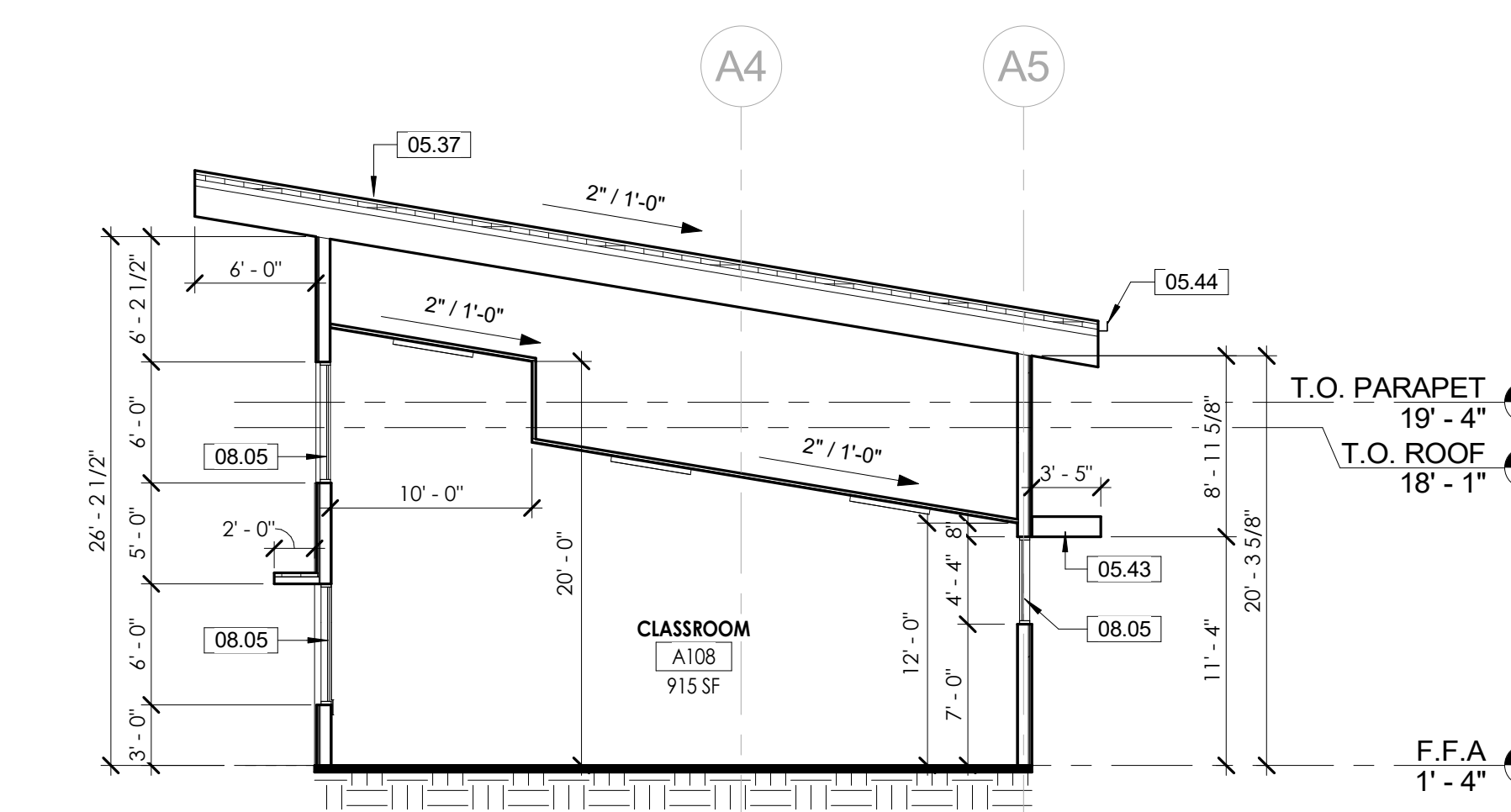
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BLDG A - VAPA AND SCIENCE - BLDG SECTION WEST EAST 1 SCALE 1/8" = 1'-0" 4

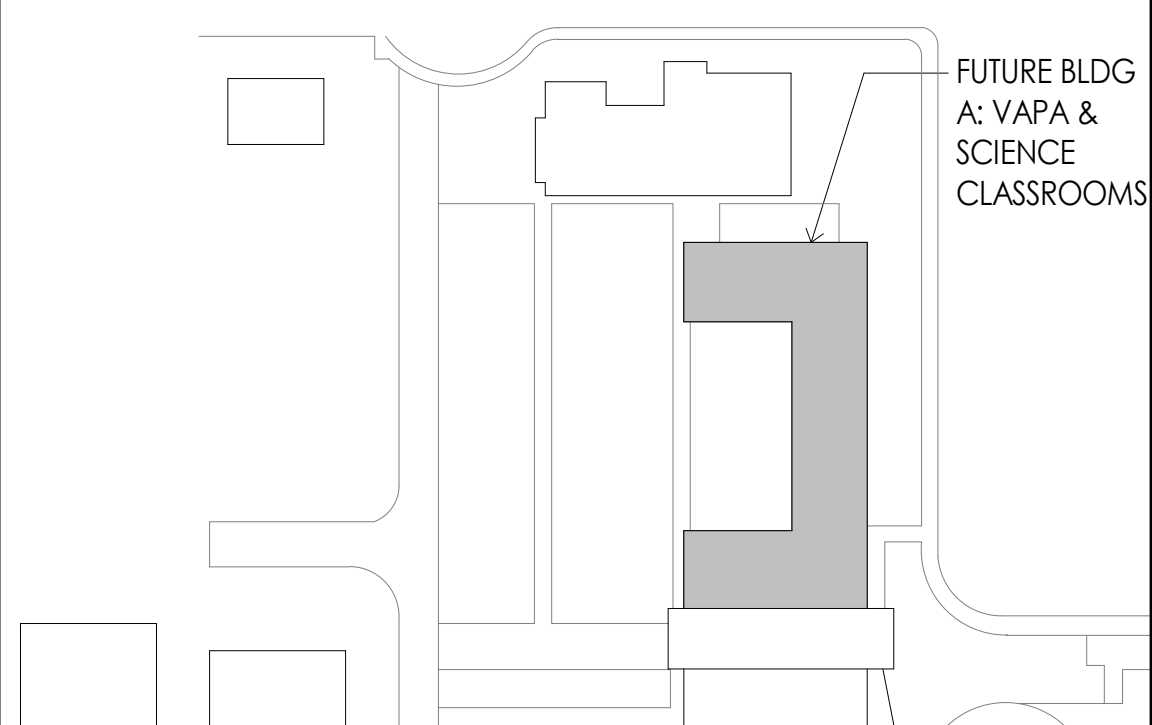


BLDG A - VAPA AND SCIENCE - BLDG SECTION WEST EAST 3 SCALE 1/8" = 1'-0" 6



BLDG A - VAPA AND SCIENCE - BLDG SECTION WEST EAST THROUGH CLASS SCALE 1/8" = 1'-0" 5

KEY MAP - N.T.S.



KEYNOTES

05.35	WINDOW SHADE EYEBROW WITH ALUCOBOND METAL FINISH
05.37	STANDING SEAM METAL ROOF
05.40	BONDERIZED METAL DOWNSPOUT - PAINTED TO MATCH ADJACENT EXTERIOR WALL TYP.
05.43	EXTERIOR EYEBROW - METAL PANEL FINISH
05.44	BONDERIZED METAL GUTTER - PAINTED WHITE, TYP.
07.11	POLYVINYL-CHLORIDE (PVC) ROOFING, FULLY ADHERED OVER 1/4" DENSDECK OVER R-30 RIGID INSULATION OVER CONCRETE - CLASS 'A' ASSEMBLY. BASIS OF DESIGN SARNAFIL - SEE SPEC SECTION 075419
08.05	ALUMINUM STOREFRONT WINDOW SYSTEM. SEE WINDOW TYPES - SEE SPEC SECTION 084113
08.48	EXTERIOR DOOR & FRAME, PAINTED TO MATCH ADJACENT WALL
09.61	SWISS PEARL PANEL - ORANGE
09.63	OVERHANG PAINTED AESS WITH INTEGRAL LOUVERS
09.67	ENTRY CANOPY - PROVIDE IN ACCORDANCE WITH DSA IR 31-1
32.18	AESS FENCE, POST, AND PANEL FRAMES WITH STAINLESS STEEL DECORATIVE MESH INSERTS. PROVIDE ACCESSIBLE DOUBLE GATES AND HARDWARE REQUIRED FOR EGRESS

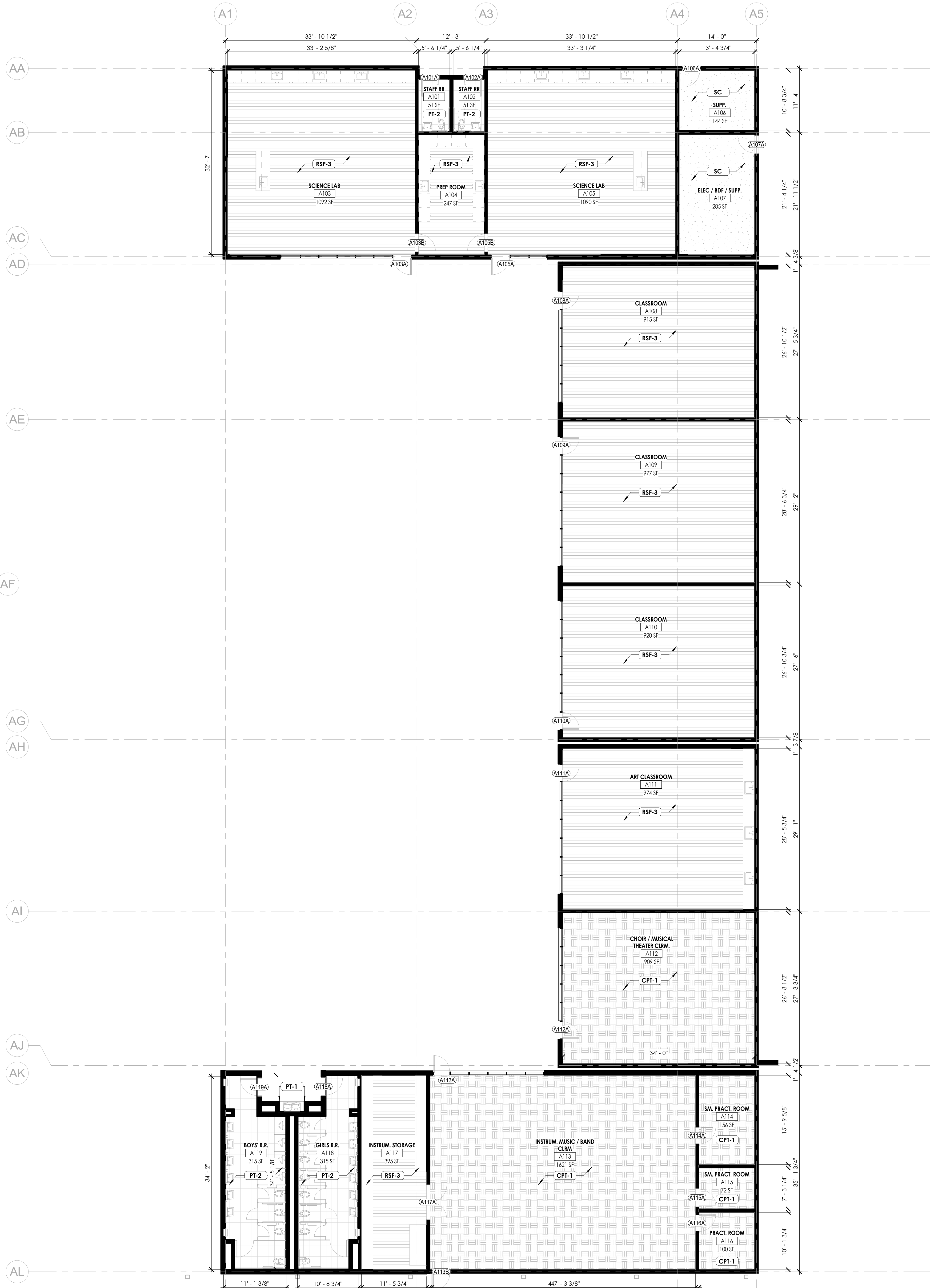


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DESIGN CRITERIA MATERIAL SCHEDULE table with columns: MARK, MATERIAL/PRODUCT NAME, MANUFACTURER, FLAME SPREAD CLASS REQUIRED, DESCRIPTION/COLOR/MODEL. Includes sections for FLOORING, WALL BASE, WALL, CEILING, TOILET PARTITION, DOOR/WINDOW FINISHES, CASEWORK, PAINT, EXTERIOR WALL FINISHES, STAIRS AND GUARDRAIL, ELEVATOR, and MISCELLANEOUS.

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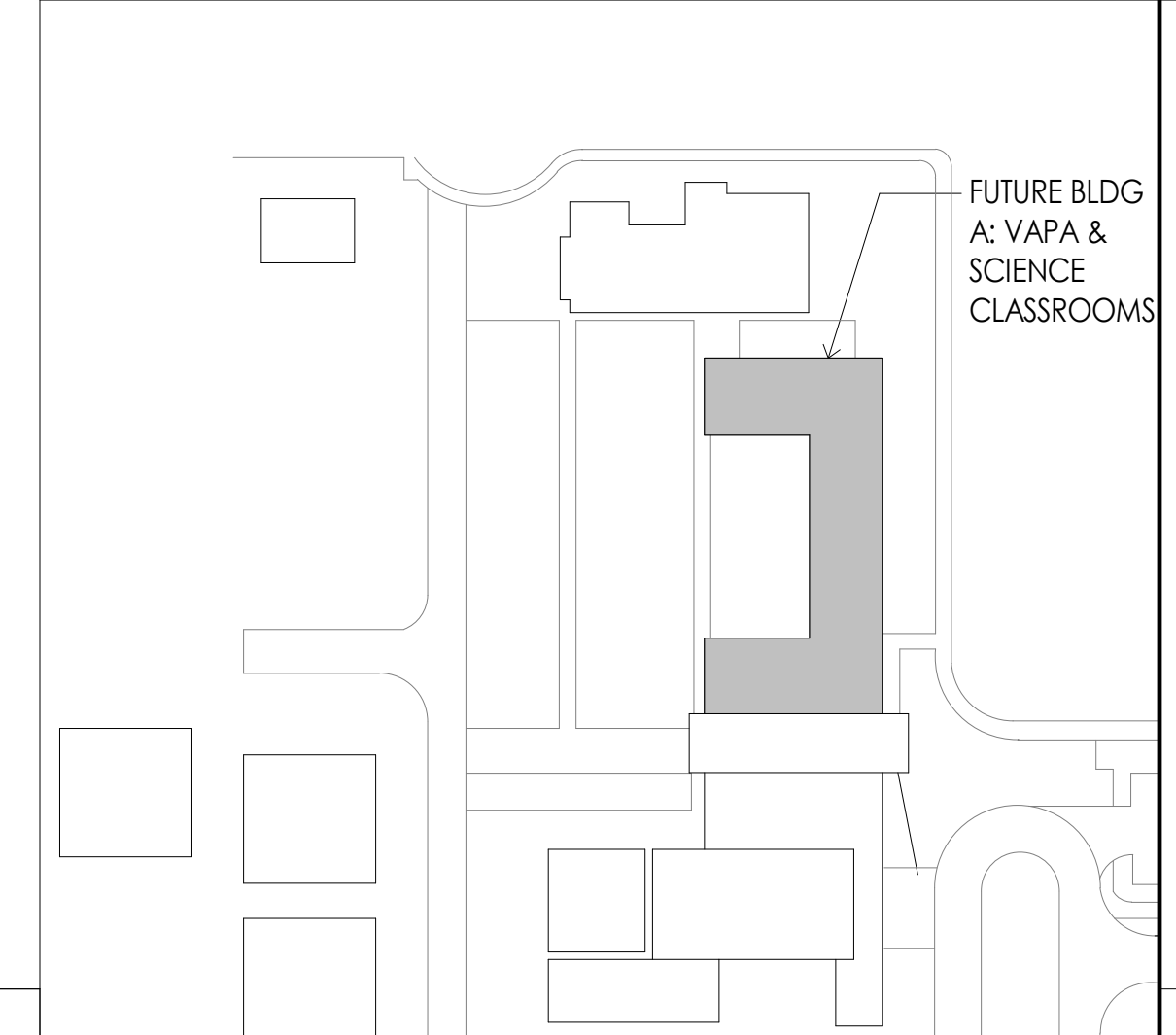
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BLDG A - MATERIAL AND FINISH PLAN AND SCHEDULE

SHEET NUMBER

A-450-A

DESIGN CRITERIA SET

KEY MAP - N.T.S.

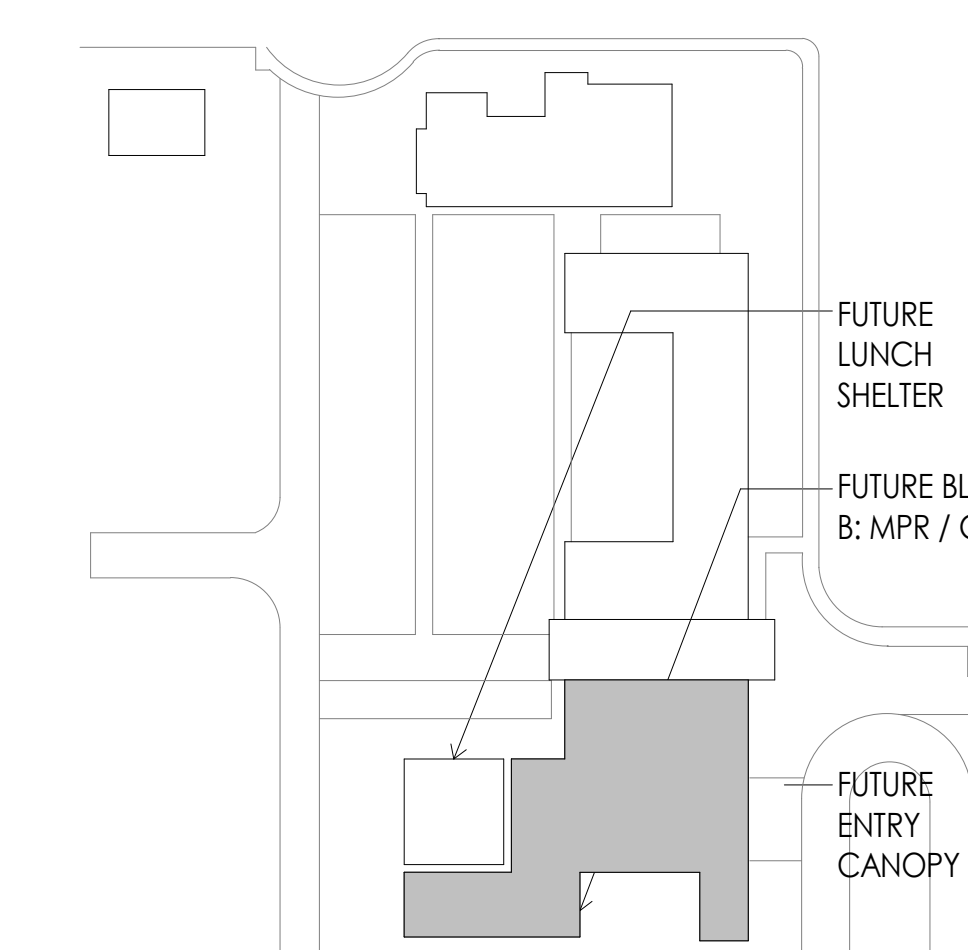


BLDG A - VAPA AND SCIENCE - FIRST FLOOR FINISH PLAN SCALE 1/8" = 1'-0" 1



KEYNOTES	
04.03	8'x8'x16' PRECISION CONCRETE MASONRY UNIT (CMU) WALL WITH SOLID GROUTED CELLS CONSTRUCTION WITH GRAFFITI COATING. REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT - SEE SPEC SECTION 042000
05.13	PIPE HANDRAIL, 1 1/2" DIA, STAINLESS STEEL - SEE SPEC SECTION 05213
05.35	WINDOW SHADE EYEBROW WITH ALUMINUM COBOND METAL FINISH
06.08	BUILT-IN CASEWORK, SEE FINISH SCHEDULE
06.23	MPR STAGE
08.05	ALUMINUM STOREFRONT WINDOW SYSTEM, SEE WINDOW TYPES - SEE SPEC SECTION 084113
09.44	SEISMIC JOINT COVER - FLAT
12.09	RECEPTION DESK AT HEALTH UNIT, SEE DETAIL XXX
22.04	WATER CLOSET - SEE PLUMBING DRAWINGS - SEE SPEC SECTION 224000
22.19	LAVATORY - SEE PLUMBING DRAWINGS - SEE SPEC SECTION 224000
22.20	HI-LOW DRINKING FOUNTAIN - SEE PLUMBING DRAWINGS
32.18	ACCESS FENCE, POST, AND PANEL FRAMES WITH STAINLESS STEEL DECORATIVE MESH INSERTS, PROVIDE ACCESSIBLE DOUBLE GATES AND HARDWARE REQUIRED FOR EGRESS
32.55	TRASH BIN
32.56	LOADING DOCK

KEY MAP - N.T.S.



BLDG B - GYM / MPR - FIRST FLOOR PLAN SCALE 1/8" = 1'-0" 1

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PROJECT TITLE
JEFFERSON MIDDLE SCHOOL
823 ACACIA AVE, OCEANSIDE, CA 92038



OUSD

ISSUED	
#	DATE
1	12/05/2023
DRAFT DESIGN CRITERIA SET	

PROJECT IDENTIFICATION
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SHEET TITLE
BLDG B - FIRST FLOOR PLAN

SHEET NUMBER

A-101-B

DESIGN CRITERIA SET

KEYNOTES

05.37	STANDING SEAM METAL ROOF
05.43	EXTERIOR EYEBROW - METAL PANEL FINISH
05.44	BONDERIZED METAL GUTTER - PAINTED WHITE, TYP.
07.11	POLYVINYL-CHLORIDE (PVC) ROOFING, FULLY ADHERED OVER 1/4" DECK OVER R-30 RIGID INSULATION OVER CONCRETE - CLASS 'A' ASSEMBLY, BASIS OF DESIGN: SARNATIL - SEE SPEC SECTION 075419
09.63	OVERHANG PAINTED AESS WITH INTEGRAL LOUVERS
09.64	SEISMIC JOINT COVER - FLAT
09.65	SEISMIC JOINT COVER - QUARTER CIRCLE
23.18	(E) MECHANICAL ROOFTOP HVAC UNIT MOUNTED ON CONCRETE PLATFORM - SEE MECHANICAL DRAWINGS

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 San Diego, CA 92121
 858.203.4999

SEAL

CONSULTANTS

PROJECT TITLE

JEFFERSON MIDDLE SCHOOL
 823 ACACIA AVE. OCEANSIDE, CA 92038



OUSD

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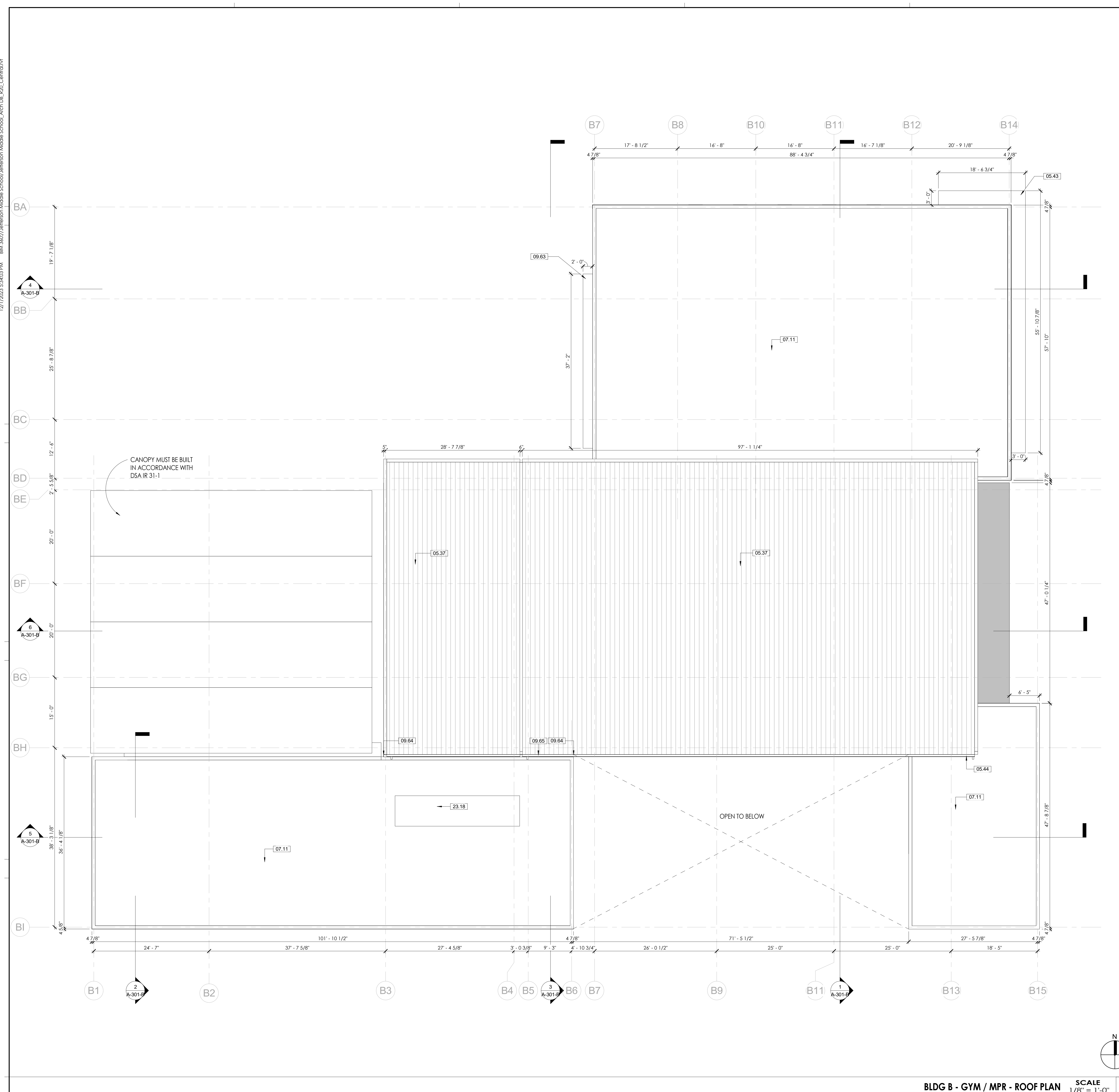
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SHEET TITLE
 BLDG B - ROOF PLAN

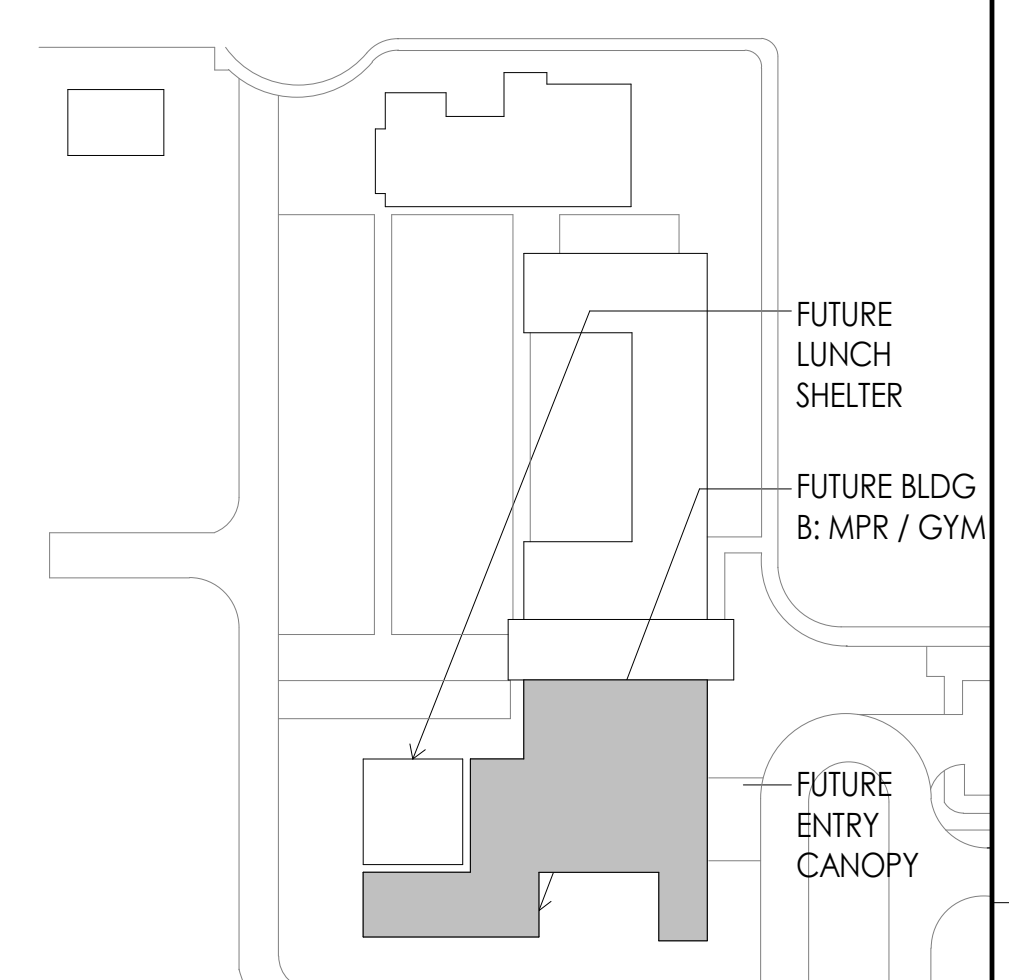
SHEET NUMBER

A-120-B

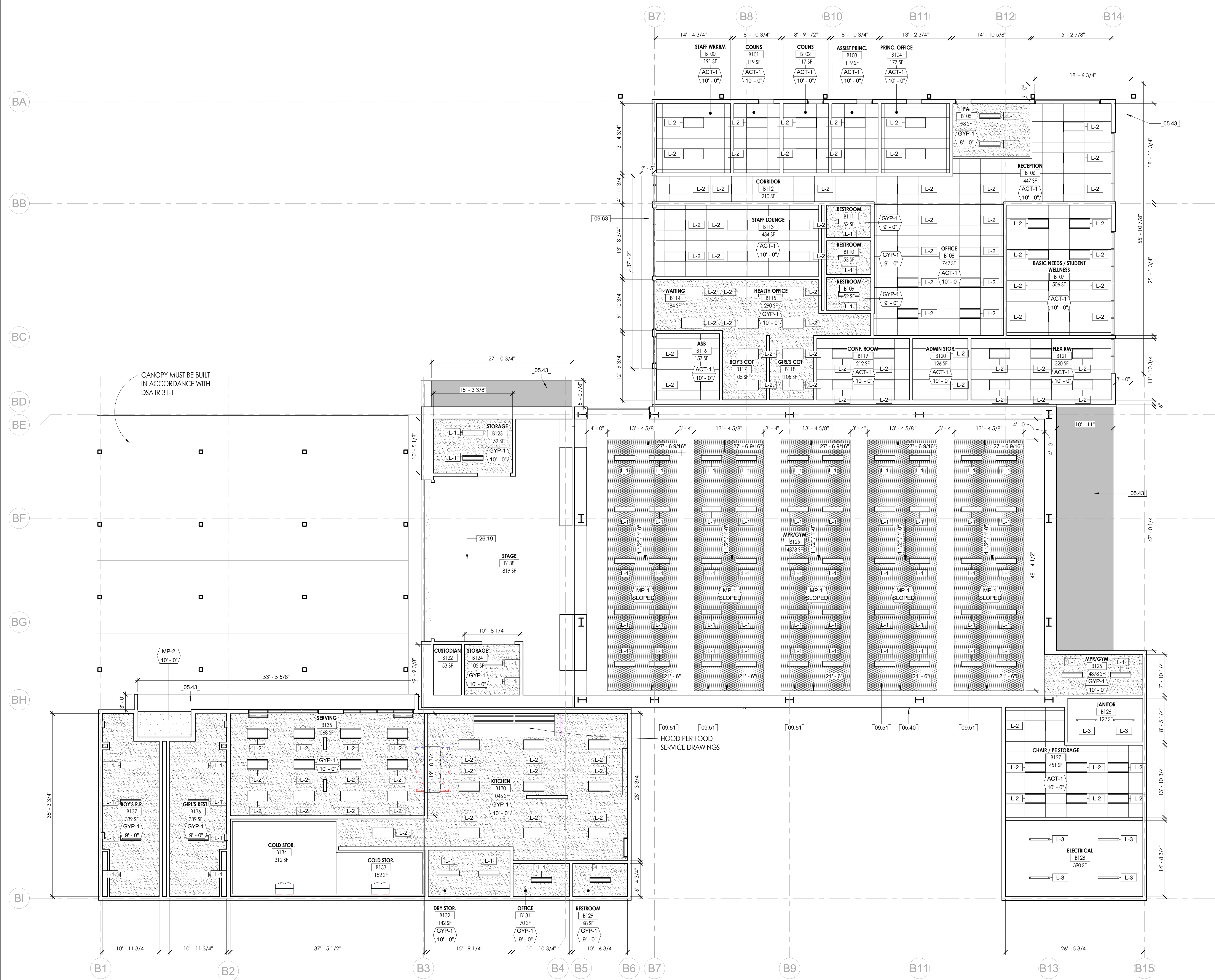
DESIGN CRITERIA SET



KEY MAP - N.T.S.



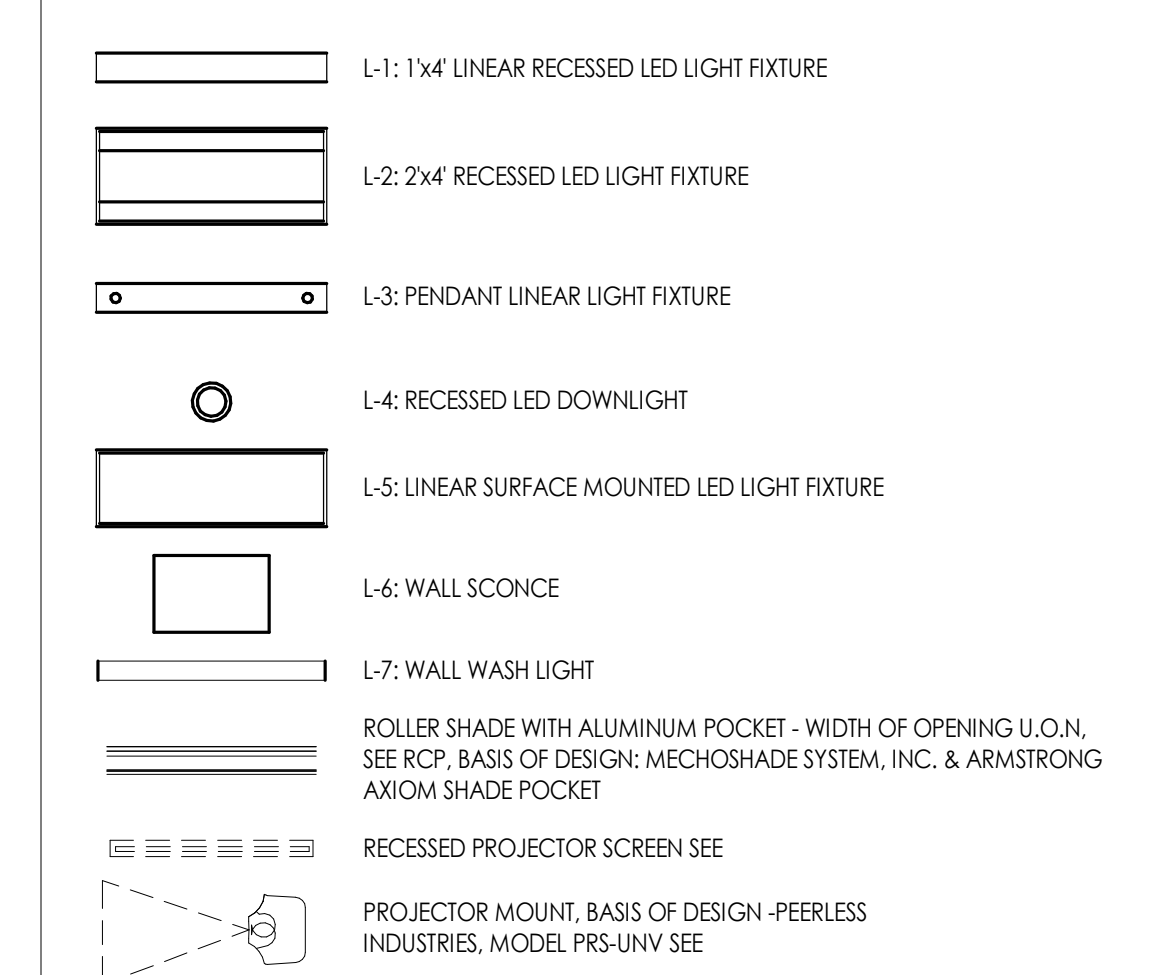
BLDG B - GYM / MPR - ROOF PLAN
 SCALE 1/8" = 1'-0"
 1



RCP CEILING TYPE

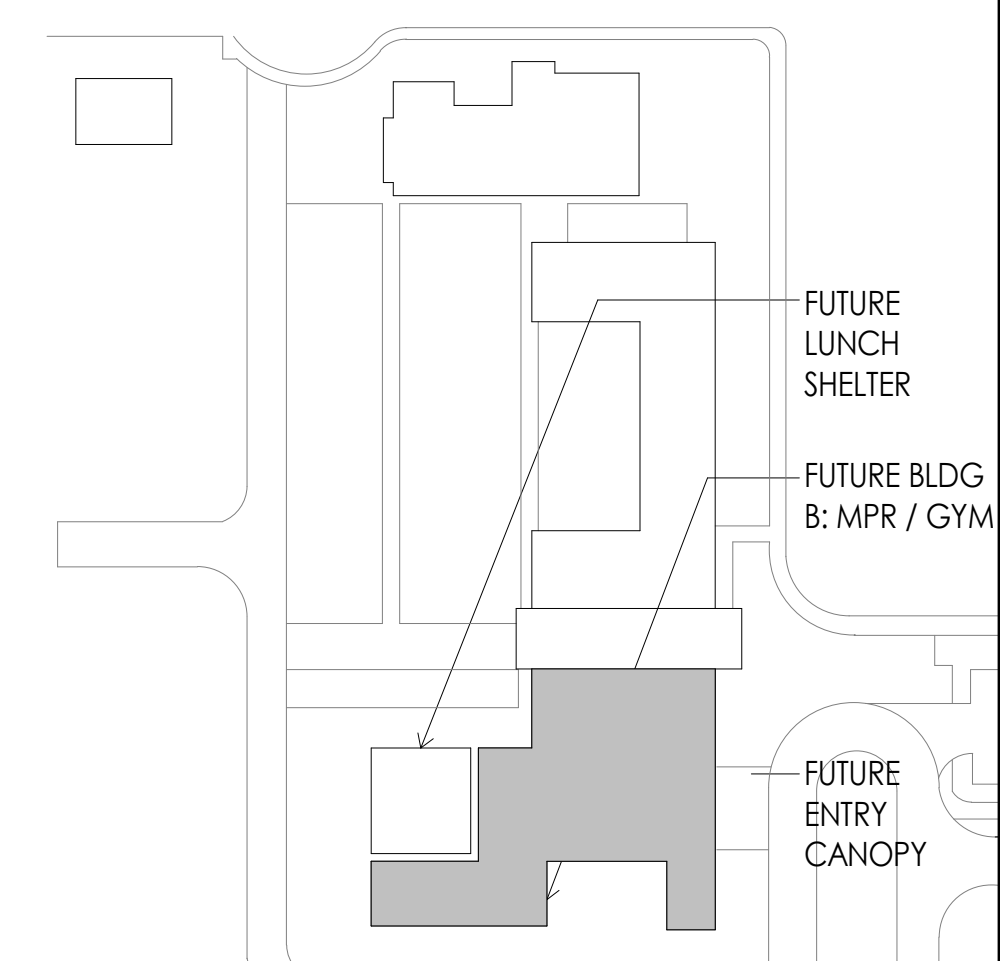
CEILING TYPE	GRAPHICS	DESCRIPTION
ACT-1	[Pattern]	2 x 4 SUSPENDED ACOUSTICAL TILE ARMSTRONG CEILINGS: FINE FISSURED SECOND LOOK
ACT-2	[Pattern]	LINEAR ACOUSTIC CEILING TILE ARMSTRONG CEILINGS BASIS OF DESIGN: LINEAR WOODWORKS
ACT-3	[Pattern]	SEAMLESS ACOUSTIC CEILING TILE BASIS OF DESIGN: DECOUSTICS, CLARO
MP-1	[Pattern]	2X2 PERFORATED METAL CEILING SYSTEM WITH ACOUSTICAL BACKING PENDEED METAL CEILING SYSTEM
PRF	[Pattern]	EXTERIOR PERFORATED METAL CEILING SIM.
GYP-1	[Pattern]	GYP-SIM BOARD CEILING - PAINTED COLOR P-1 U.O.N.
GYP-2	[Pattern]	MOLD TOUGH GYPSUM BOARD CEILING - PAINTED
EXP-1	[Pattern]	INDICATES WHITE MAT-FACED DUCT LINER BOARD ATTACHED TO UNDERSIDE OF STRUCTURE (PAINT ALL EXPOSED DUCTS, PIPES, PIPE GRIDS, ETC. WHITE), PAINTED P-3 SEE SIM.
MP-2	[Pattern]	METAL PANEL CEILING

CEILING LEGEND



KEYNOTES
05.40 BONDZERIZED METAL DOWNSPOUT - PAINTED TO MATCH ADJACENT EXTERIOR WALL, TYP.
05.43 EXTERIOR 'EYEBROW' - METAL PANEL FINISH
09.51 SLOPED CEILING, SEE BUILDING SECTION FOR CEILING HEIGHT, TYP.
09.63 OVERHANG PAINTED AESS WITH INTEGRAL LOUVERS
26.19 PROVIDE THEATRICAL LIGHTING PER ELECTRICAL BID

KEY MAP - N.T.S.



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PROJECT TITLE

JEFFERSON MIDDLE SCHOOL
823 ACACIA AVE, OCEANSIDE, CA 92058



OUSD

ISSUED		
#	DATE	DESCRIPTION
	12/05/2023	DRAFT DESIGN CRITERIA SET

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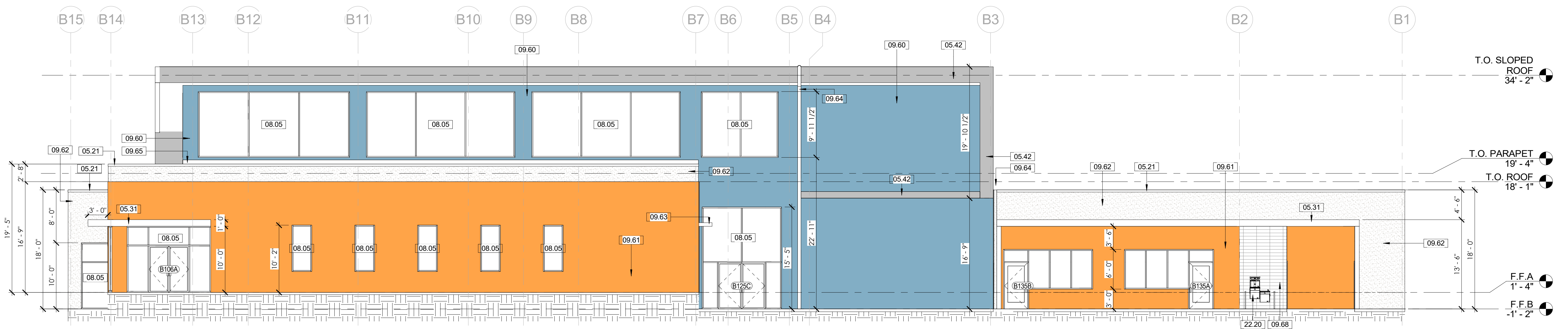
SHEET TITLE
BLDG B - REFLECTED
CEILING PLAN

SHEET NUMBER

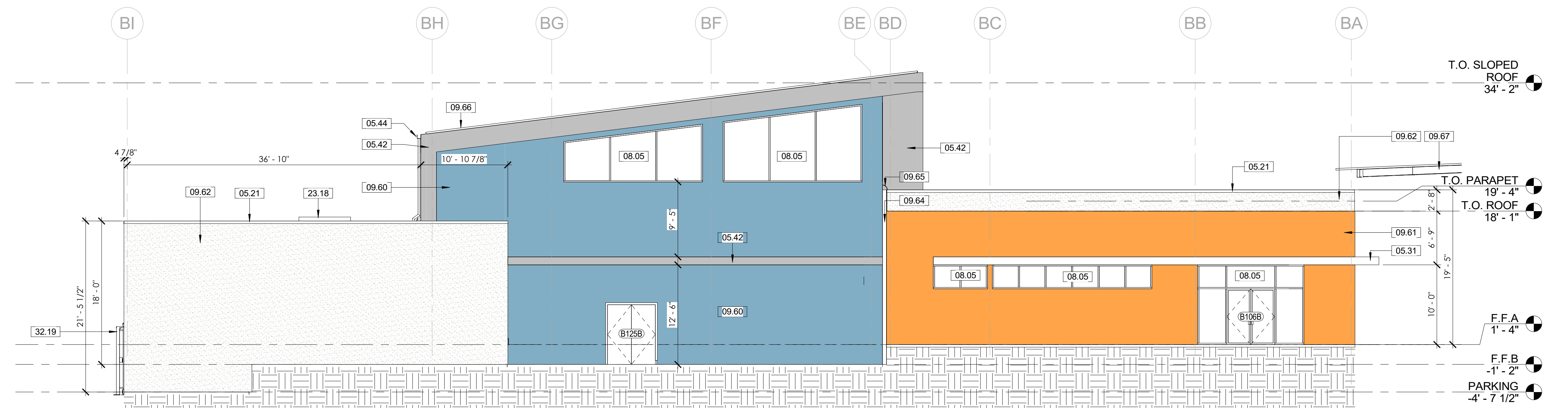
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DESIGN CRITERIA SET

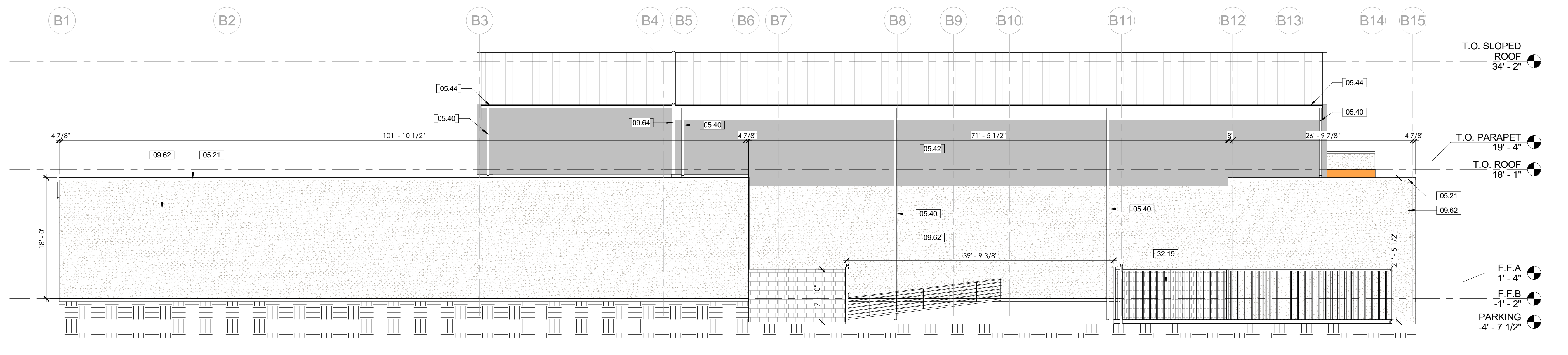
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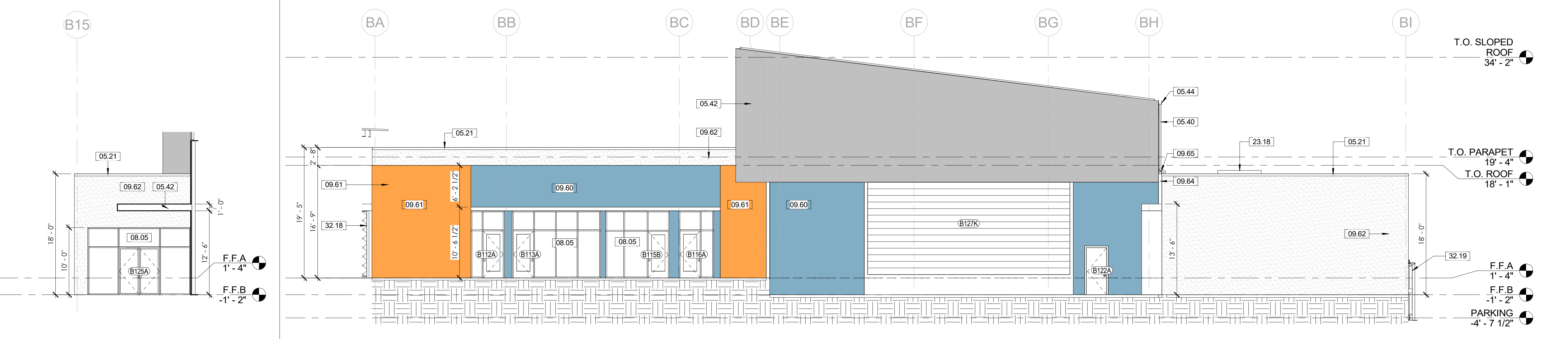
BLDG B - GYM / MPR - NORTH ELEVATION SCALE 1/8" = 1'-0" 1



BLDG B - GYM / MPR - EAST ELEVATION SCALE 1/8" = 1'-0" 2



BLDG B - GYM / MPR - SOUTH ELEVATION SCALE 1/8" = 1'-0" 3



BLDG B - GYM / MPR - WEST ELEVATION SCALE 1/8" = 1'-0" 4



BLDG B - GYM / MPR - EXT. ELEVATION 2 SCALE 1/8" = 1'-0" 5

KEYNOTES

05.21	BONDERIZED METAL PARAPET CAP - PAINTED WHITE
05.31	NEW PAINTED TUBE STEEL CANOPY
05.40	BONDERIZED METAL DOWNSPOUT - PAINTED TO MATCH ADJACENT EXTERIOR WALL, TYP.
05.42	METAL PANEL FINISH WALL
05.44	BONDERIZED METAL GUTTER - PAINTED WHITE, TYP.
08.05	ALUMINUM STOREFRONT WINDOW SYSTEM, SEE WINDOW TYPES - SEE SPEC SECTION 084113
09.60	SWISS PEARL PANEL - BLUE
09.61	SWISS PEARL PANEL - ORANGE
09.62	PLASTER - WHITE
09.63	OVERHANG PAINTED AESS WITH INTEGRAL LOUVERS
09.64	SESMIC JOINT COVER - FLAT
09.65	SESMIC JOINT COVER - QUARTER CIRCLE
09.66	SESMIC JOINT COVER - HALF CIRCLE
09.67	ENTRY CANOPY - PROVIDE IN ACCORDANCE WITH DSA IR 31-1
09.68	WALL TILE FINISH
22.20	H-LOW DRINKING FOUNTAIN - SEE PLUMBING DRAWINGS
23.18	(E) MECHANICAL ROOFTOP HVAC UNIT MOUNTED ON CONCRETE PLATFORM - SEE MECHANICAL DRAWINGS
32.18	AESS FENCE, POST, AND PANEL FRAMES WITH STAINLESS STEEL DECORATIVE MESH INSERTS, PROVIDE ACCESSIBLE DOUBLE GATES AND HARDWARE REQUIRED FOR EGRESS
32.19	BACK OF HOUSE GATE - SEE LANDSCAPE DRAWINGS

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#	DATE	DESCRIPTION
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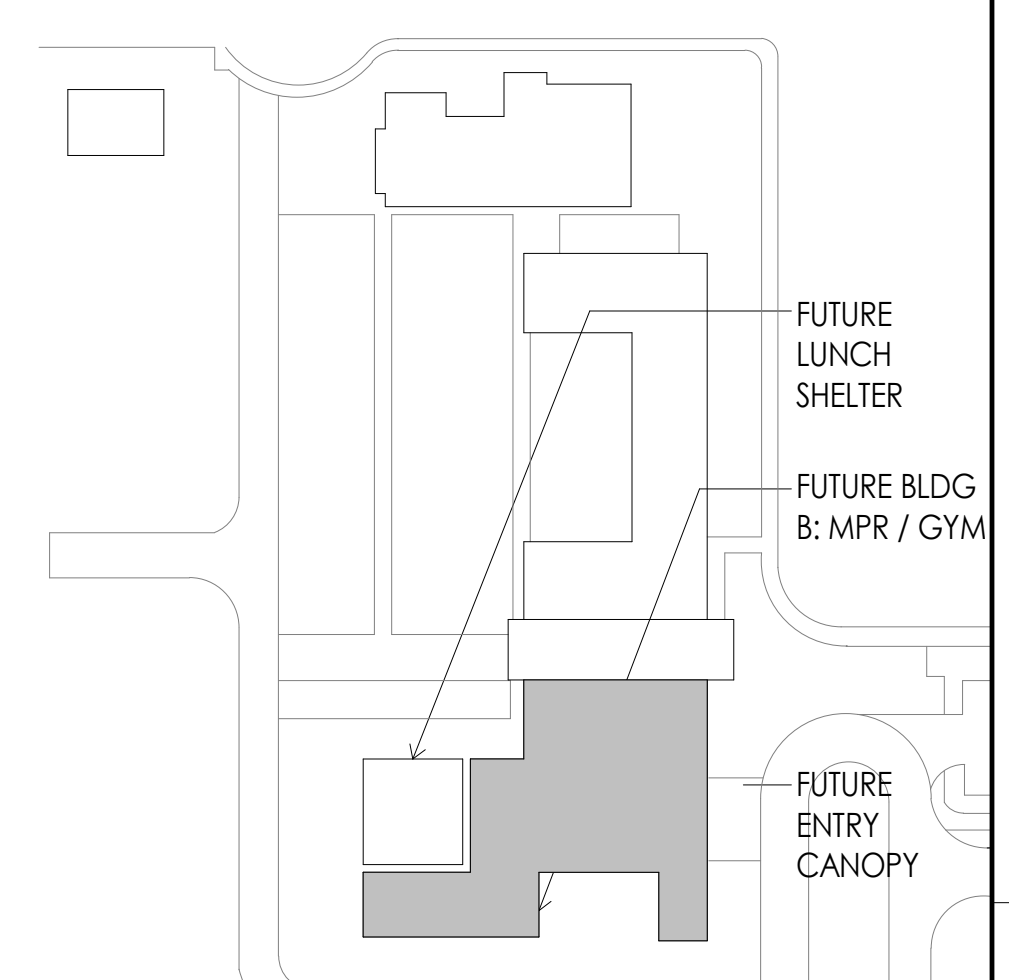
SHEET TITLE
BLDG B - EXTERIOR ELEVATIONS

SHEET NUMBER

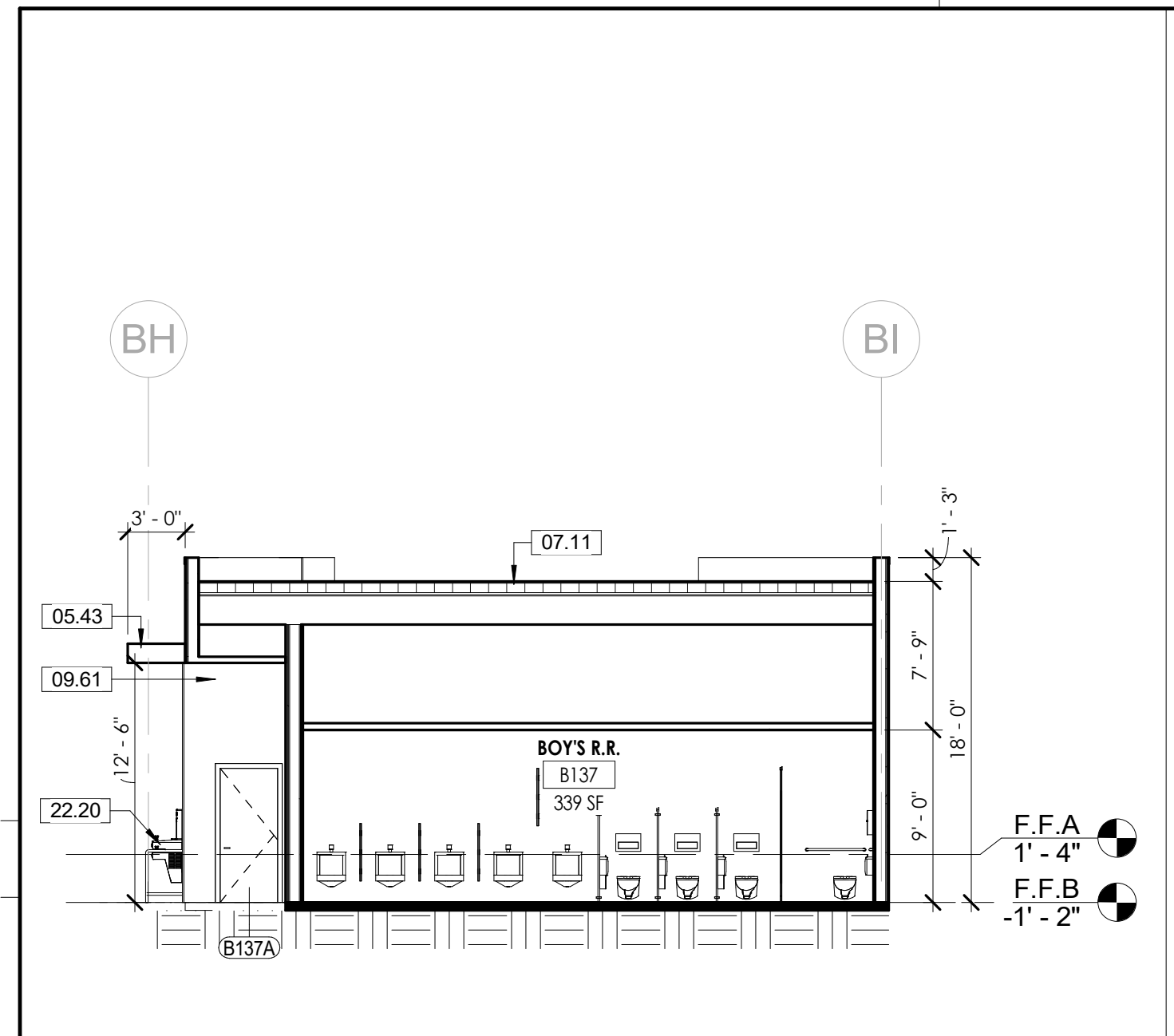
A-201-B

DESIGN CRITERIA SET

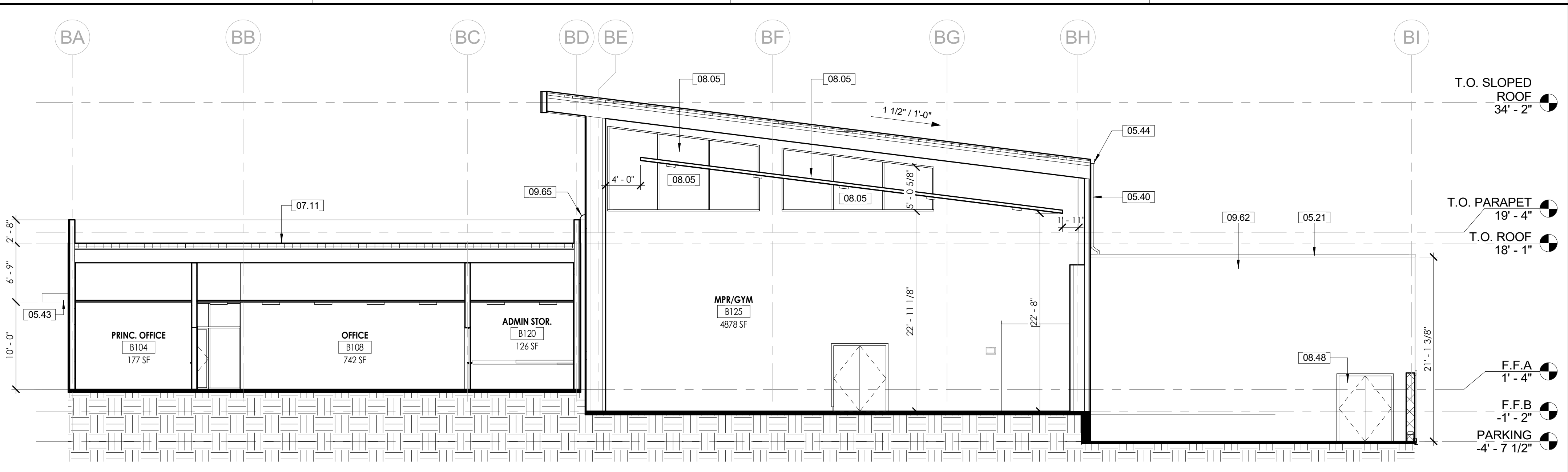
KEY MAP - N.T.S.



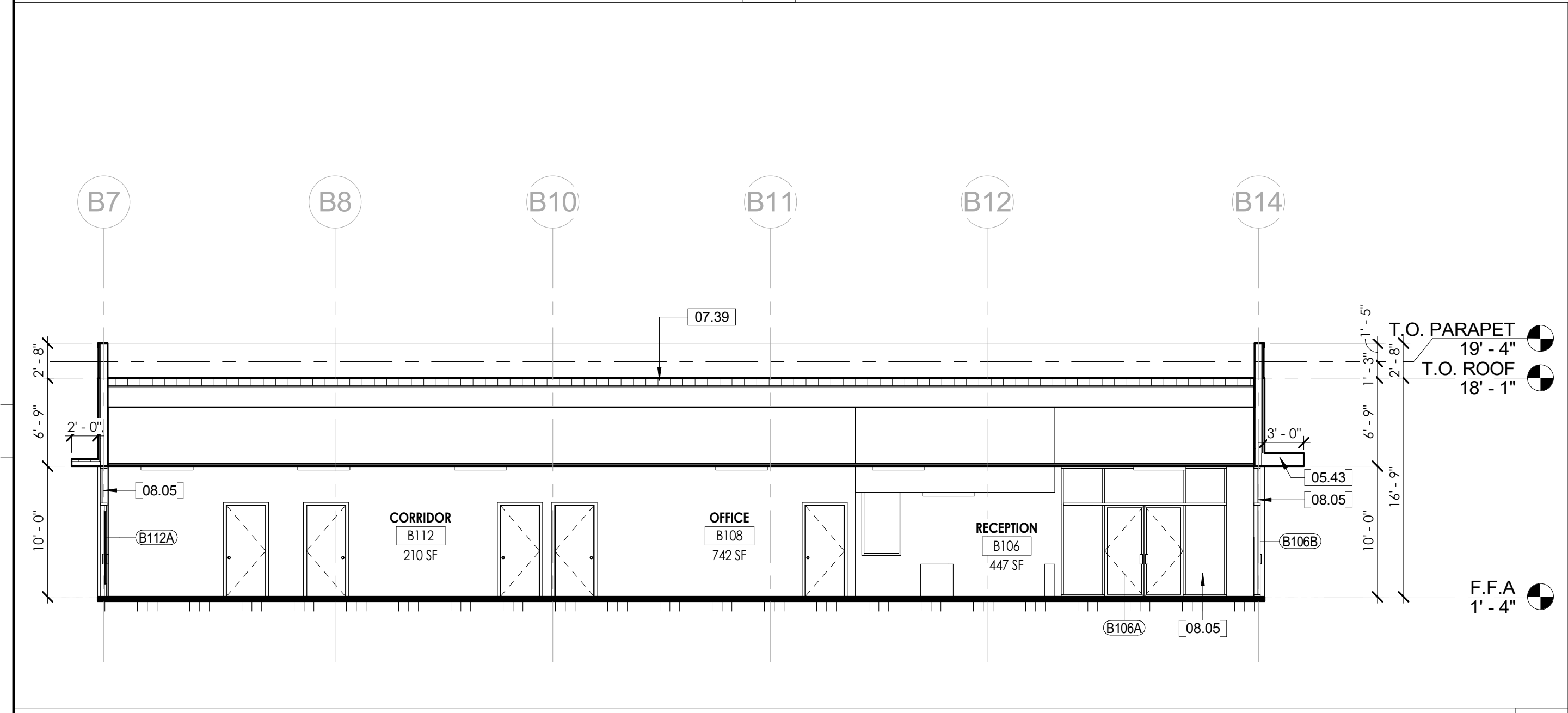
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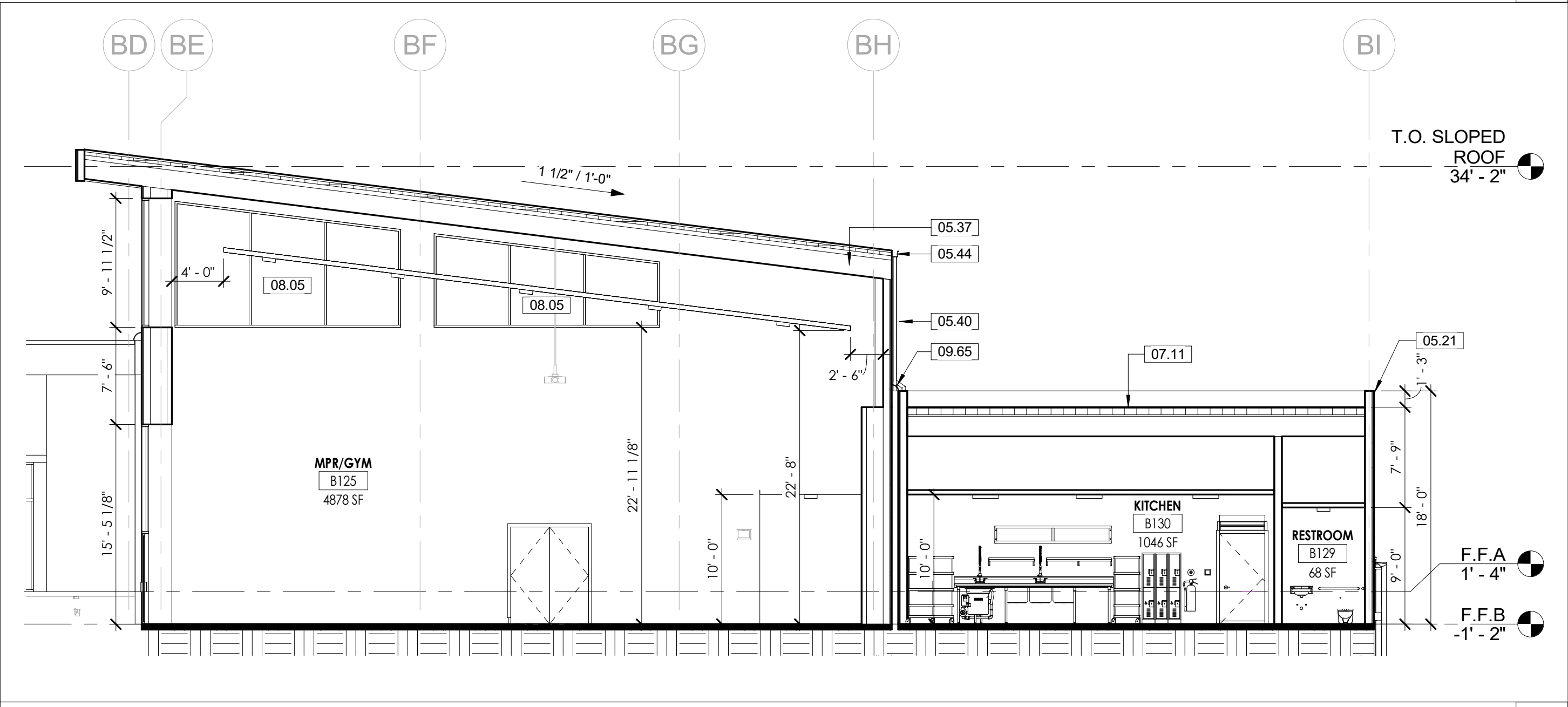
BLDG B - GYM / MPR - NORTH SOUTH SECTION 2 SCALE 1/8" = 1'-0" 2



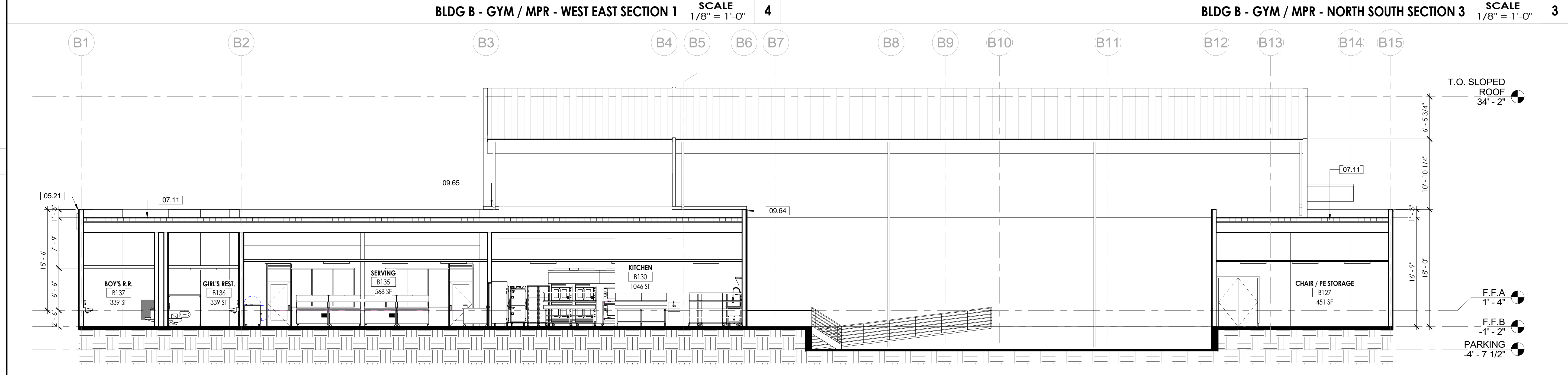
BLDG B - GYM / MPR - NORTH SOUTH SECTION 1 SCALE 1/8" = 1'-0" 1



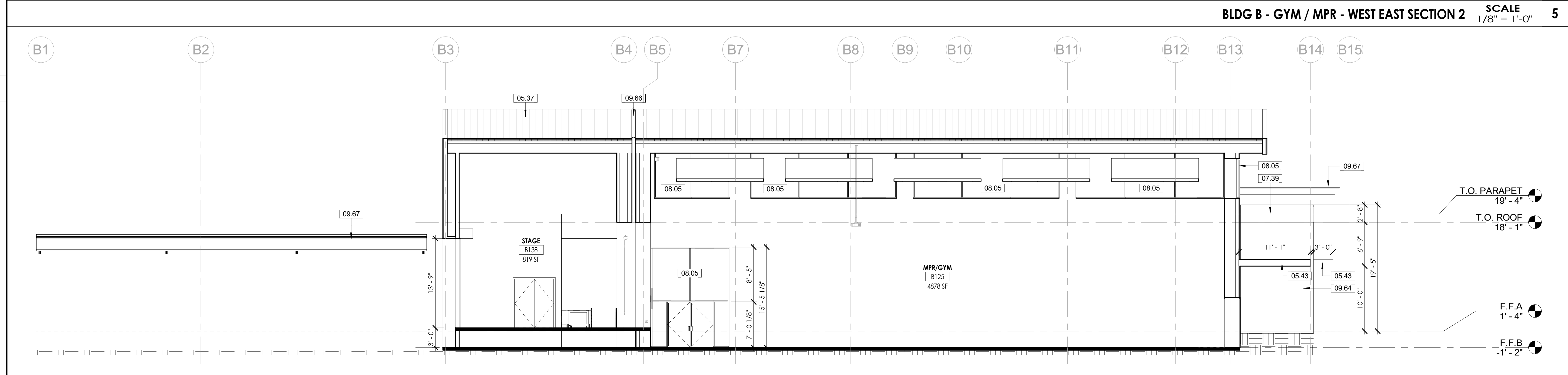
BLDG B - GYM / MPR - WEST EAST SECTION 1 SCALE 1/8" = 1'-0" 4



BLDG B - GYM / MPR - NORTH SOUTH SECTION 3 SCALE 1/8" = 1'-0" 3

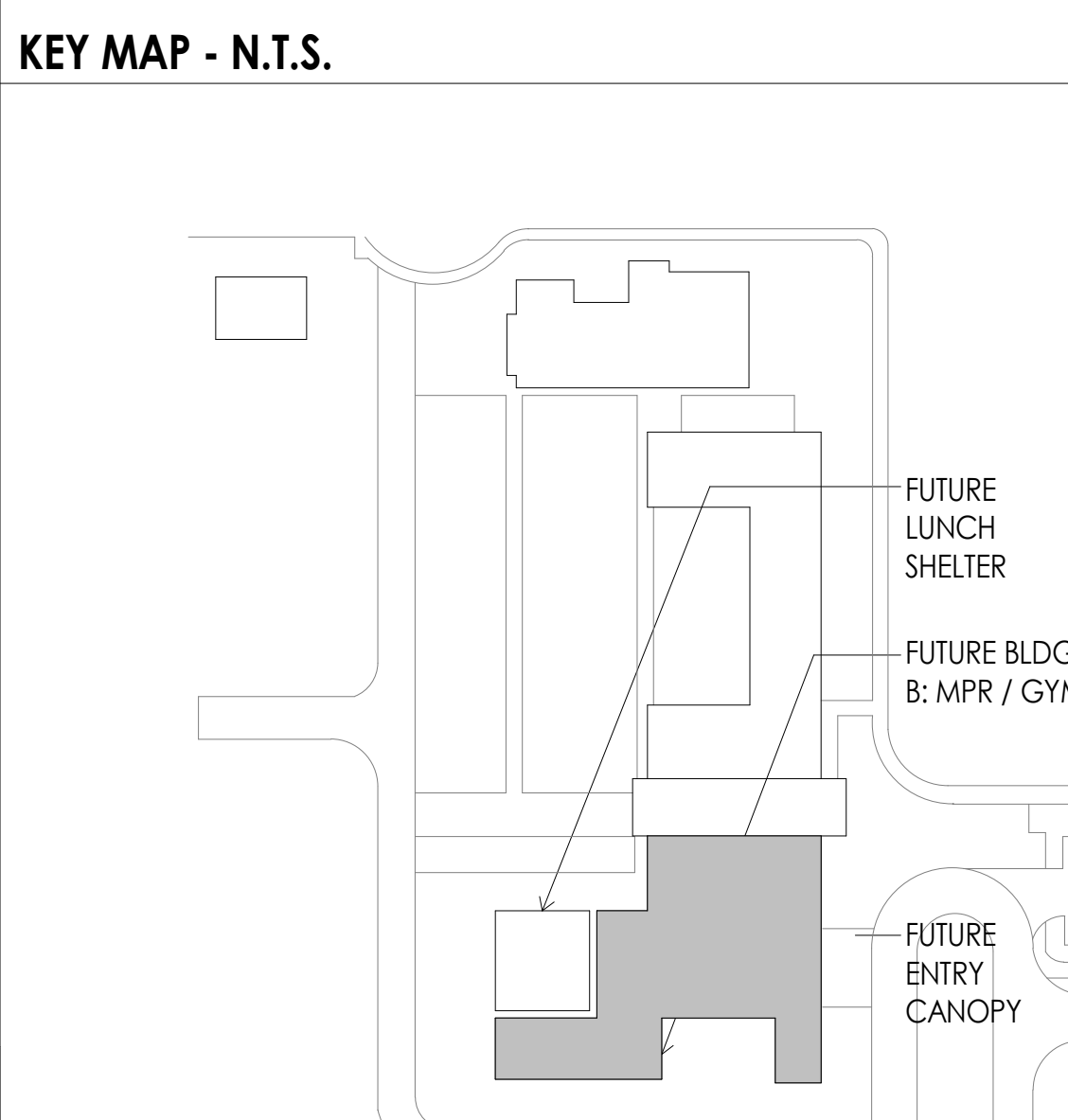


BLDG B - GYM / MPR - WEST EAST SECTION 2 SCALE 1/8" = 1'-0" 5



BLDG B - GYM / MPR - WEST EAST SECTION 3 SCALE 1/8" = 1'-0" 6

KEYNOTES	
05.21	BONDERIZED METAL PARAPET CAP - PAINTED WHITE
05.37	STANDING SEAM METAL ROOF
05.40	BONDERIZED METAL DOWNSPOUT - PAINTED TO MATCH ADJACENT EXTERIOR WALL TYP.
05.43	EXTERIOR 'EYEBROW' - METAL PANEL FINISH
05.44	BONDERIZED METAL GUTTER - PAINTED WHITE, TYP.
07.11	POLYVINYL-CHLORIDE (PVC) ROOFING, FULLY ADHERED OVER 1/4" DENSEDECK OVER R-30 RIGID INSULATION OVER CONCRETE - CLASS 'A' ASSEMBLY, BASIS OF DESIGN: SARNARIL - SEE SPEC SECTION 075419
08.05	PVC ROOFING SYSTEM WITH TAPERED RIGID INSULATION
08.09	ALUMINUM STOREFRONT WINDOW SYSTEM, SEE WINDOW TYPES - SEE SPEC SECTION 084113
08.48	EXTERIOR DOOR & FRAME, PAINTED TO MATCH ADJACENT WALL
09.61	SWISS PEARL PANEL - ORANGE
09.62	PLASTER - WHITE
09.64	SEISMIC JOINT COVER - FLAT
09.65	SEISMIC JOINT COVER - QUARTER CIRCLE
09.66	SEISMIC JOINT COVER - HALF CIRCLE
09.67	ENTRY CANOPY - PROVIDE IN ACCORDANCE WITH DSA IR 31-1
22.20	HI-LOW DRINKING FOUNTAIN - SEE PLUMBING DRAWINGS



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SHEET TITLE
BLDG B - BUILDING SECTIONS

SHEET NUMBER
A-301-B

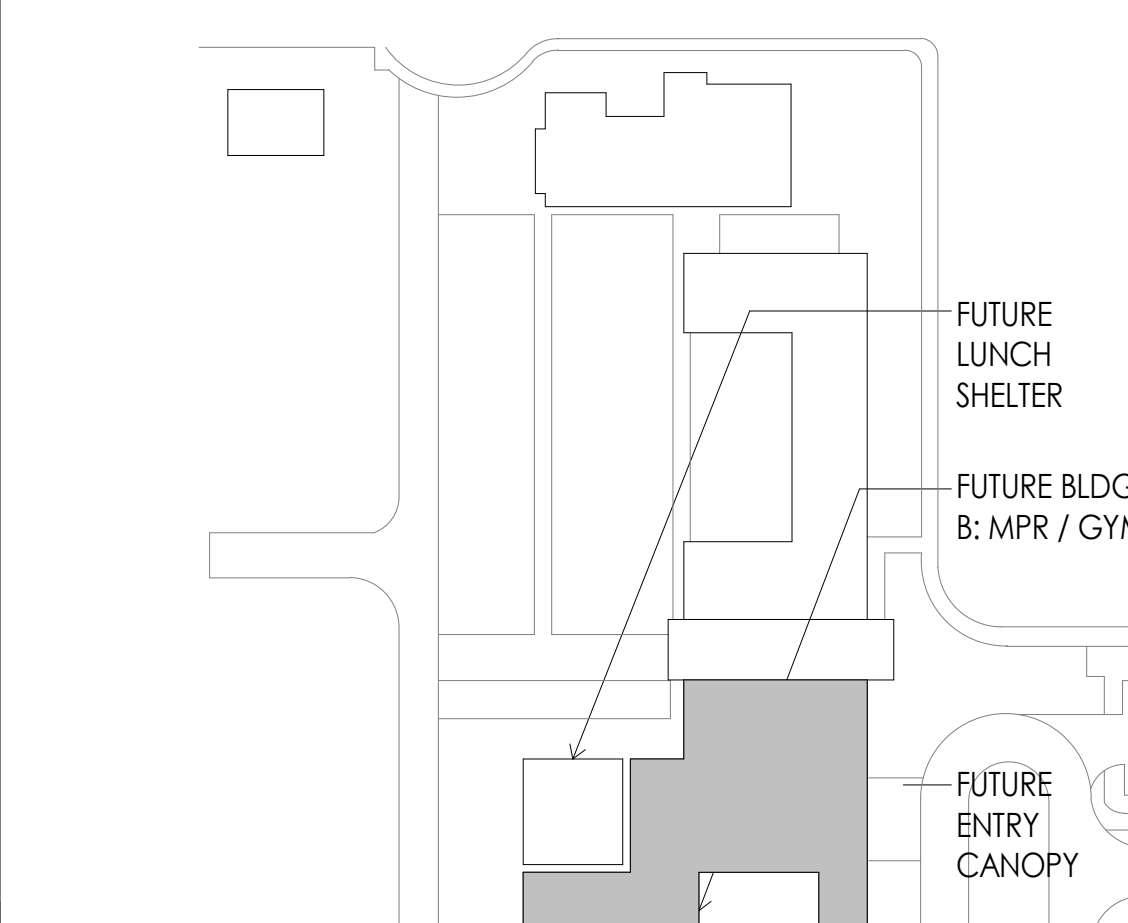
DESIGN CRITERIA SET

12/11/2023 5:34:31 PM BM 3603/ Jefferson Middle School/Jefferson Middle School Arch DB_020_Central.rvt



DESIGN CRITERIA MATERIAL SCHEDULE				
MARK	MATERIAL/PRODUCT NAME	MANUFACTURER	FLAME SPREAD CLASS REQUIRED	DESCRIPTION/COLOR/MODEL
FLOORING				
CPT-1	CARPET TILE	MOHAWK GROUP		BLENDED TWIST - JEWEL 7559 - 24" x 24"
CPT-2	WALK OFF MAT	PAWLING CORP.		ROLLER ROLLUP MAT - EM-800-NLW - CHARCOAL #58 - 4 x 6 / 3 x 3
GT-1	TILE GROUT	CUSTOM		#60 CHARCOAL
PT-1	PORCELAIN TILE	DALTILE		HARMONIST - HM27 PROMISE - 12" x 12" - MATTE FINISH
PT-2	PORCELAIN TILE	DALTILE		PORTFOLIO - ASH GRAY - 12" x 24" - MATTE FINISH
QT-1	QUARRY TILE	DALTILE		QUARRY TEXTURES - ASH GRAY
RSF-1	RESILIENT SHEET FLOORING	MANNINGTON		UNO - HULL - 6 ROLL ETW105
RSF-2	RESILIENT SHEET FLOORING	MANNINGTON		UNO - STONE - 6 ROLL ETW103
RSF-3	RESILIENT SHEET FLOORING	FLEXCO		ESD VINYL - 014 MEDIUM GRAY - 24'X24'
SC	SC			SEALED CONCRETE
WALL BASE				
PTB-1	PORCELAIN TILE BASE	DALTILE		HARMONIST - HM27 PROMISE - 5.36C9FP COVE BASE - 6" x 12"
PTB-2	PORCELAIN TILE BASE	DALTILE		PORTFOLIO - ASH GRAY - P3AC7P36C9F COVE BASE - 6" x 12"
RB-1	RUBBER BASE	ARMSTRONG		GRAY MIST R48GM
WALL				
CT-1	CERAMIC TILE	CROSSVILLE		RETRO ACTIVE 2.0 - EMPRESS WHITE 4X12
WP-1	ACOUSTIC WALL PANEL	ARMSTRONG		WOODWORKS WALLS - NATURAL VARIATIONS MAPLE W4 PERFORATION - 2' x 4'
WP-2	ACOUSTIC WALL PANEL	CONWED		RESPOND R - DIRECT ATTACH WALL - MAHARAJA - CROSSSET - SONCBMD
CEILING				
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG		FINE PRESSURE SECOND LOOK - WHITE 24" X 48" PATERN B
ACT-2	ACOUSTIC CEILING TILE	ARMSTRONG		DECORATIVES - CLARO - WHITE
FC-1	FFBER CEMENT PANELS	AMERICAN FBER CEMENT		CEMBRI PATINA P545 SAND
GYP-1	GYPNUM BOARD	SEE SPEC 092900		
GYP-2	GYPNUM BOARD	SEE SPEC 092900		
MP-4	ACOUSTIC CEILING TILE	ARMSTRONG		METAWORKS CONCEALED - SILVER GREY, MID PERFORATED, 48" X 48"
WD-1	WOOD CEILING	ARMSTRONG		LINEAR WOODWORKS - NATURAL VARIATIONS MAPLE 5.25' X 9.6'
WD-2	ACOUSTIC CEILING & WALL	ARMSTRONG		WOODWORKS GRILLE - MAPLE 12" X 9.6"
TOILET PARTITION				
TP	TOILET PARTITIONS	BOBRICK		STAINLESS STEEL - SATIN
DOOR/WINDOW FINISHES				
-	GLASS	VITRO		SOLARBAN 70 SOLARBLUE
-	SPANDREL GLAZING	VITRO		ICD SPANDREL TANZANITE BLUE
-	HOLLOW METAL DOOR (INTERIOR)	SEE SPECIFICATIONS		
-	HOLLOW METAL DOOR (EXTERIOR)	SEE SPECIFICATIONS		
-	HOLLOW METAL DOOR FRAME (INTERIOR)	SEE SPECIFICATIONS		
-	HOLLOW METAL DOOR FRAME (EXTERIOR)	SEE SPECIFICATIONS		
-	WINDOW ROLLER SHADES	MECHOSYSTEM, INC.		
-	ALUMINUM STOREFRONT	ARCADIA		
CASEWORK				
PL-1	PLASTIC LAMINATE	OCTOPIUS PRODUCTS INTL.		262 RECYCLED TEAK
PL-2	PLASTIC LAMINATE	OCTOPIUS PRODUCTS INTL.		252 WHITE PEARL MATTE
SS-1	COUNTERTOP	CORIAN		LIMESTONE PRIMA
SS-2	COUNTERTOP	CORIAN		EVEREST
SS-3	COUNTERTOP	CORIAN		CARBON CONCRETE
PAINT				
P-1	PAINT	DUNN EDWARDS		COLOR: WARM WHITE DE900
P-2	PAINT	DUNN EDWARDS		COLOR: CRASHING WAVES DE810
P-3	PAINT	DUNN EDWARDS		COLOR: SILVER SKATE DE6801
P-4	PAINT	DUNN EDWARDS		COLOR: HIDDEN HILLS DE5569
P-5	PAINT	DUNN EDWARDS		COLOR: MIDDAY SUN DE5289
EXTERIOR WALL FINISHES				
CP	CEMENT PLASTER	COLOR TEK OMEGA		COLOR: WHITE
MP-1	COMPOSITE METAL PANEL	CENTRIA		SLATE BLUE
MP-2	COMPOSITE METAL PANEL	CENTRIA		SILVER METALLIC COOL
MP-3	COMPOSITE METAL PANEL	CENTRIA		PLATINUM MICA
PV	PEDESTAL PAVER	WASAU		LOCK DOWN SYSTEM ULTRAFACE TERRA SAND PEDESTAL - 30X30X2
STAIRS AND GUARDRAIL				
-	PRECAST CONCRETE F.F.	SEE SPECIFICATIONS		SEE SPECIFICATIONS
-	GUARDRAIL & HANDRAILS			STAINLESS STEEL
ELEVATOR				
EF-1	PORCELAIN FLOOR	FLORIDATILE		TIME 2.0 / COLOR: CARBON PLT 28
MISCELLANEOUS				
-	COULVERS			PAINTED ALUMINUM, COLOR: GRAY
LPH-1	UPHOLSTERY	MOMENTUM		COLOR: GRAY WHIT EPU - HIGHFALL

KEY MAP - N.T.S.



BLDG B - GYM / MPR - FIRST FLOOR FINISH PLAN SCALE 1/8" = 1'-0" 1

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SHEET TITLE
BLDG B - MATERIAL AND FINISH PLAN AND SCHEDULE

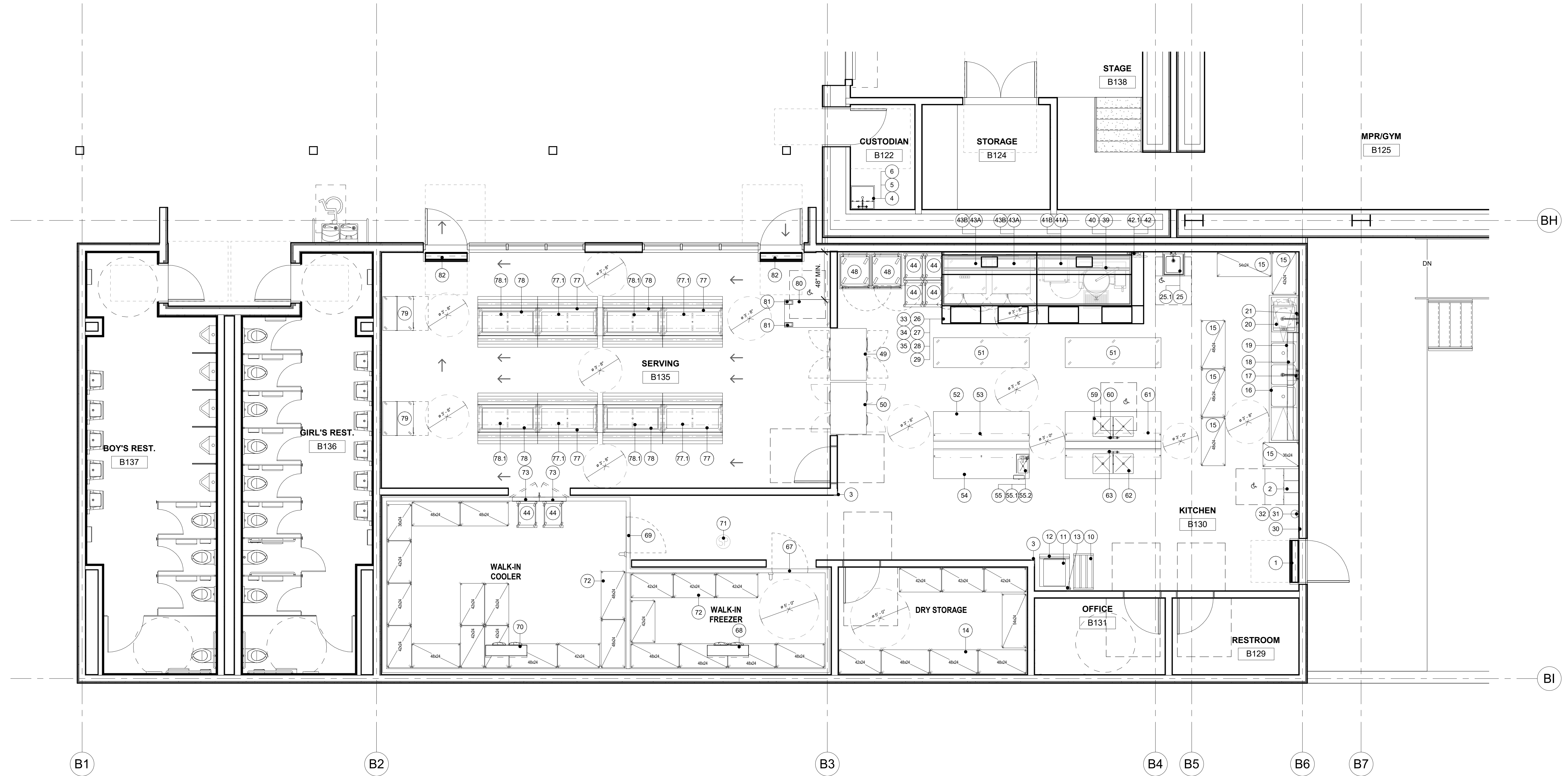
SHEET NUMBER

A-450-B

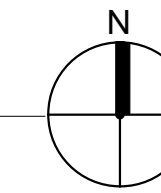
DESIGN CRITERIA SET

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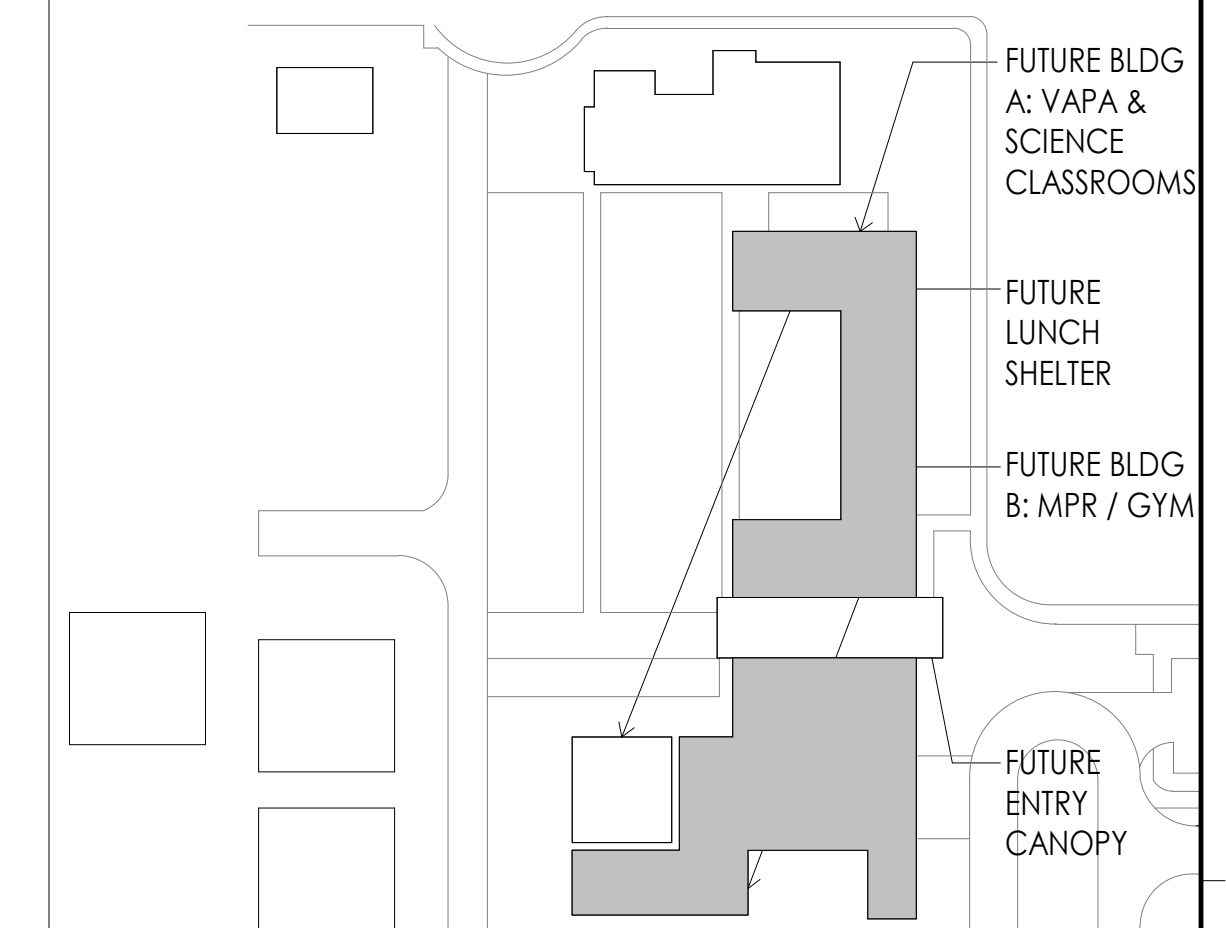
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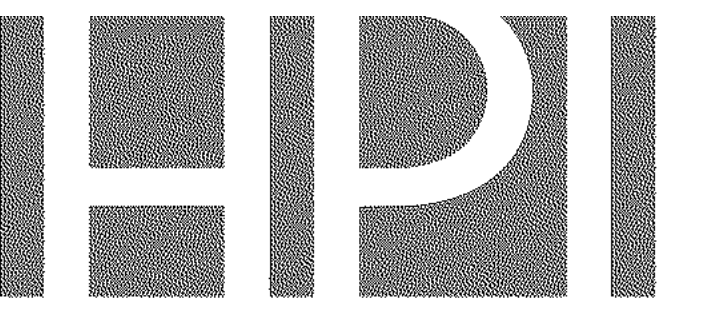
KITCHEN FLOOR PLAN
1/4" = 1'-0"



KEY MAP - N.T.S.



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SEAL

CONSULTANTS

ORNESSE DESIGN GROUP INC
FOOD SERVICE DESIGN
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SAN DIEGO, CA 92121
T. 858-457-5955

PROJECT TITLE
JEFFERSON MIDDLE SCHOOL
823 ACACIA AVE, OCEANSIDE, CA 92038



Foodservice

ISSUED	
#	DESCRIPTION
1	11/29/2023 DRAFT DESIGN CRITERIA SET

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SHEET TITLE
FOODSERVICE
EQUIPMENT - BLDG B -
FLOOR PLAN

SHEET NUMBER

K101

DESIGN CRITERIA SET

11/17/2023 11:27:39 BM 3402/ Jefferson Middle School/USD, JMS, FOOD, FD20.v1

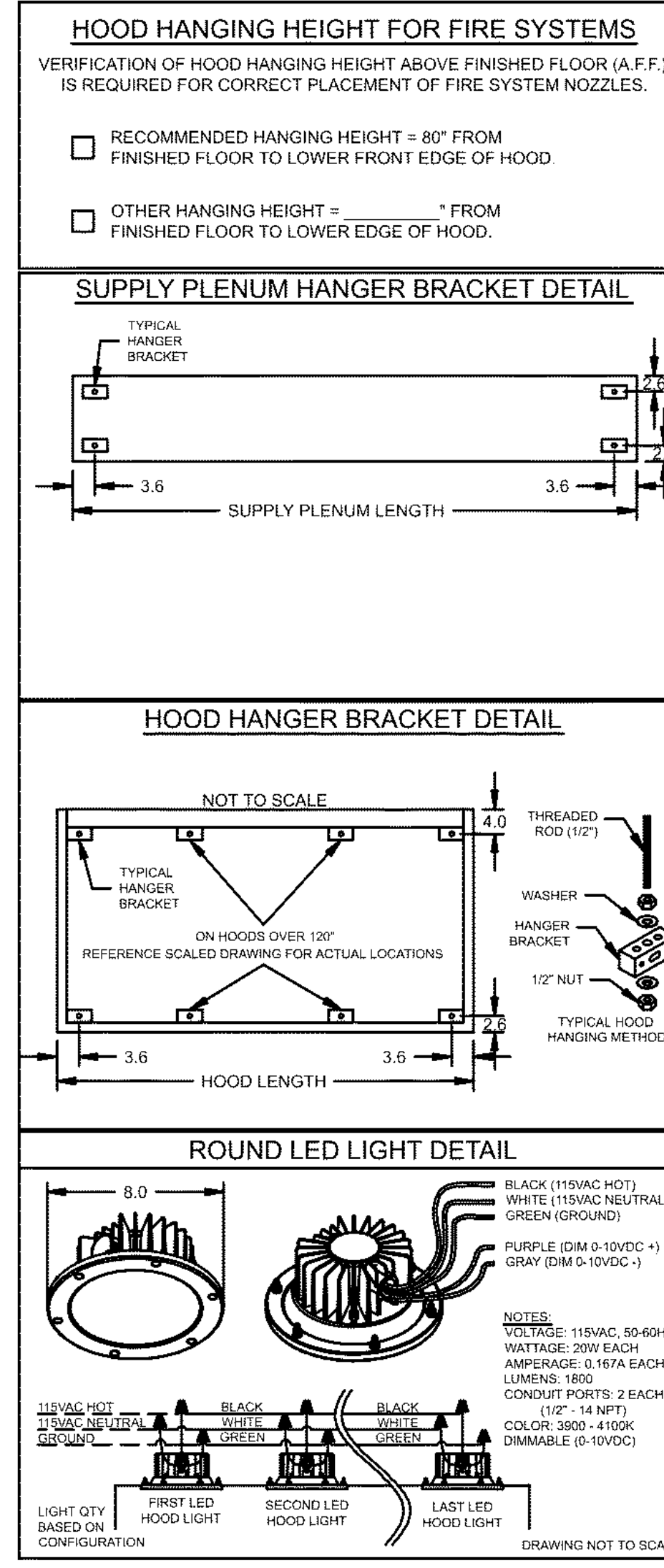
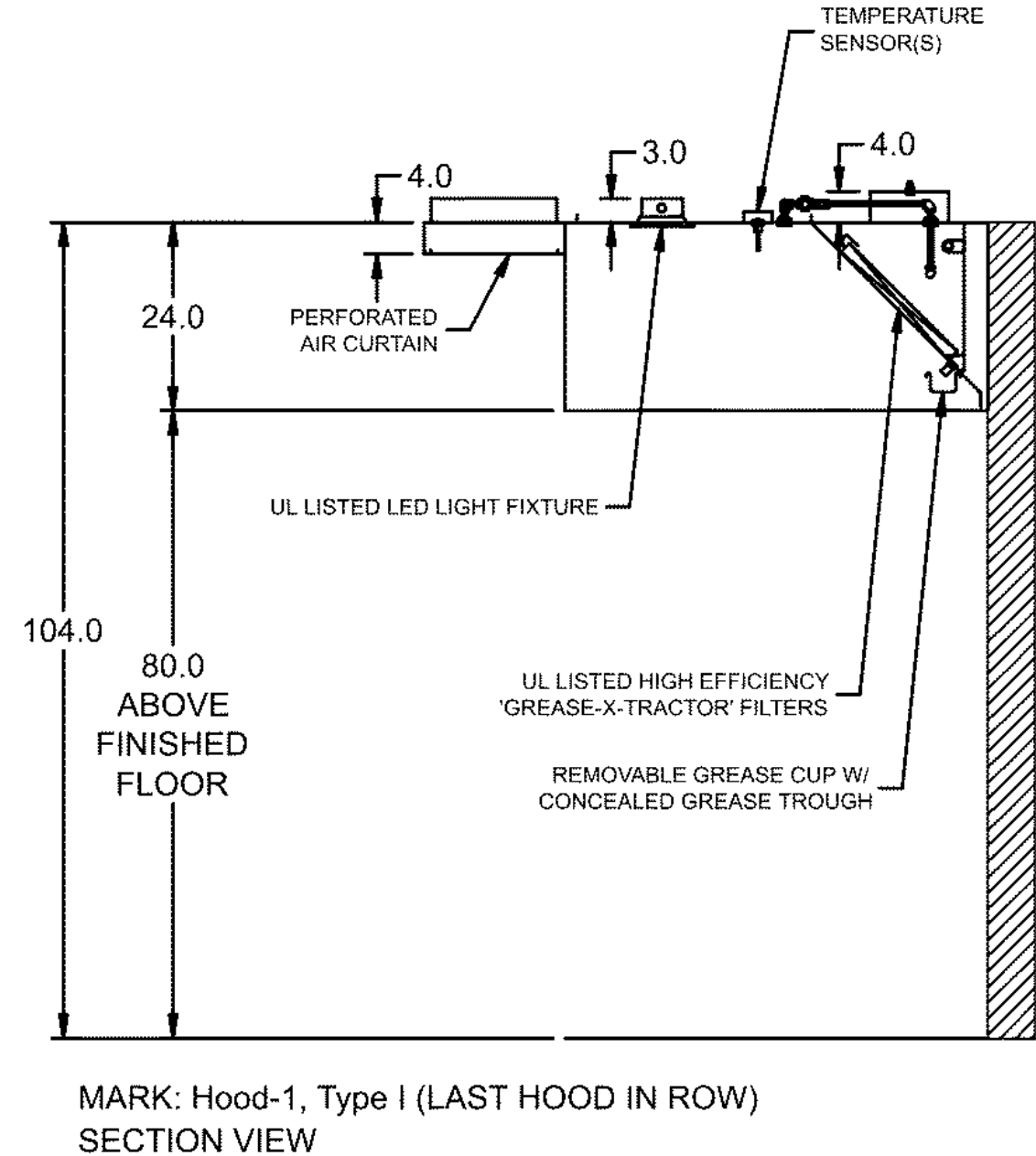
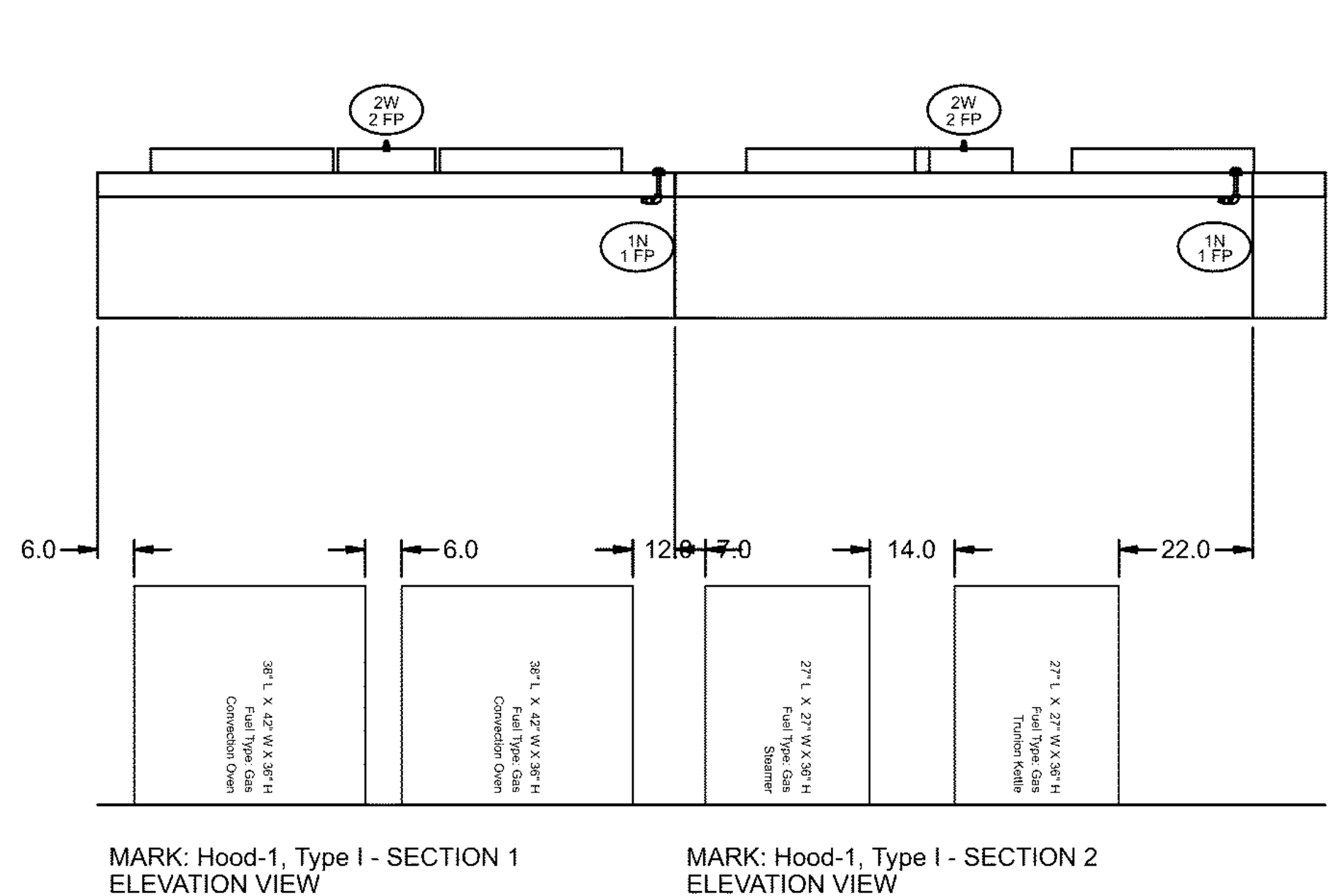
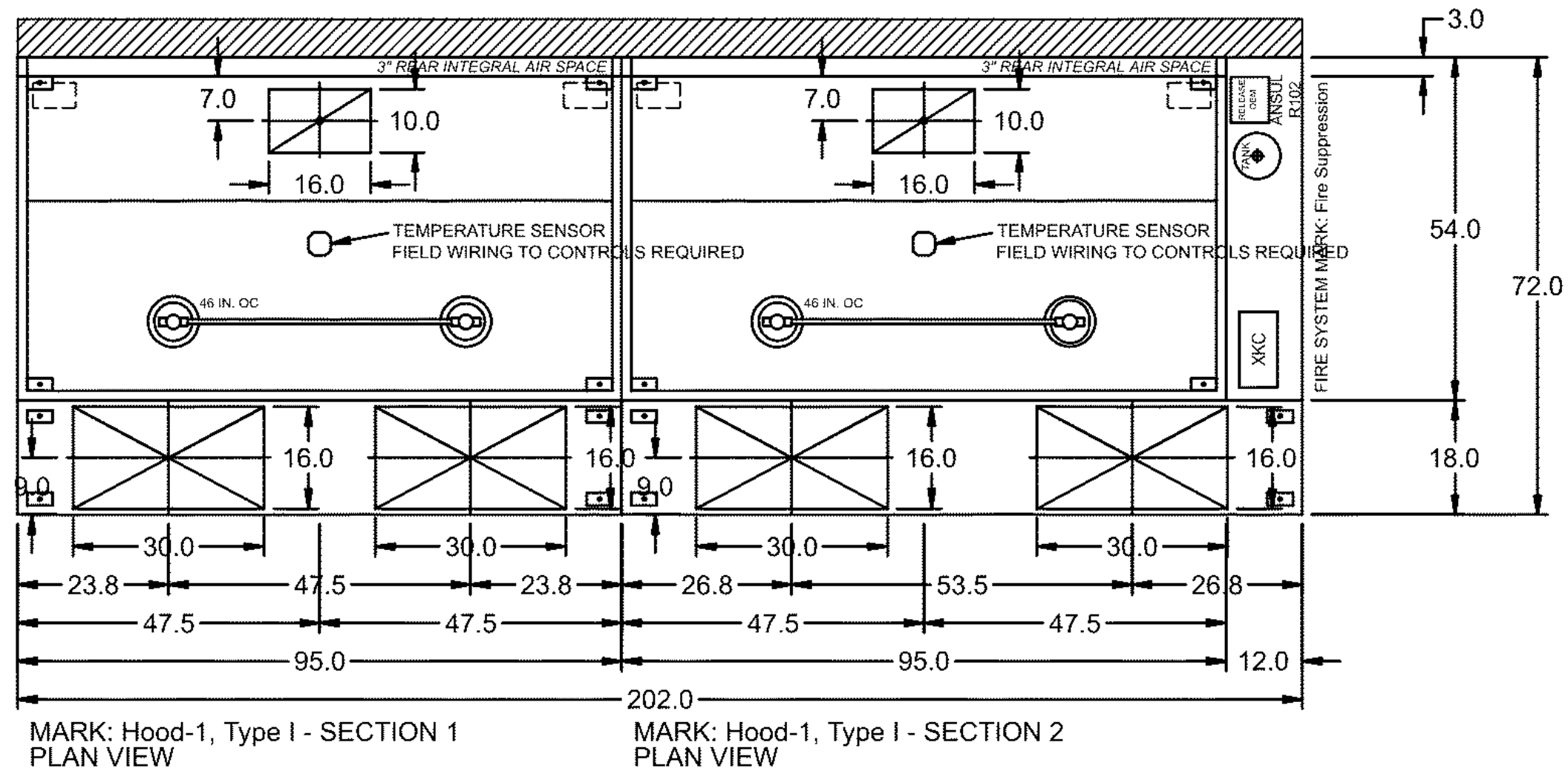
1. MECHANICAL EXHAUST SYSTEM TO BE PROVIDED OVER ALL COOKING EQUIPMENT.
2. MECHANICAL INCLUDED MAKE-UP AIR MUST BE PROVIDED FOR COOKING & DISH WASHING EXHAUST AT A SUFFICIENT CAPACITY TO REPLACE 100% OF AIR BEING EXHAUSTED. SUPPLY CFM (FROM ANY SYSTEM) TO TOTAL SUPPLY CFM.
3. MAKE UP AIR SHALL BE DELIVERED IN THE PROXIMITY OF THE EXHAUST SYSTEM IN A MANNER NOT TO CREATE UNDESIRABLE TURBULENCE IN THE WORKING AREAS.
4. LOCATION OF THE EXHAUST & MAKE-UP AIR (DUCTS) ARE TO BE VERIFIED AT THE JOB SITE.
5. UL LISTED EXHAUST HOODS TO BE CONSTRUCTED & INSTALLED TO ALL U.L. SPECIFICATIONS.
6. ELECTRICAL CONTRACTOR TO INSTALL HOOD LIGHTING, INTER-CONNECT LIGHTS IF MORE THAN ONE PROVIDED & MAKE FINAL CONNECTIONS.
7. ELECTRICAL CONTRACTOR TO PROVIDE INTERLOCK SWITCH FOR THE MAKE-UP AIR SYSTEM & EXHAUST BLOWER (FFP). ELECTRICAL CONTRACTOR TO PROVIDE & INSTALL 4" OCTAGONAL FIRE SUPPRESSION PULL STATION.
 - THE MANUAL ACTIVATION DEVICE (FIRE SUPPRESSION PULL STATION) TO BE MOUNTED AT OR NEAR A MEANS OF EGRESS FROM THE COOKING AREA, A MINIMUM OF 10 FEET & A MAXIMUM OF 30 FEET FROM THE KITCHEN EXHAUST SYSTEM AIR FROM FINISHED FLOOR WITH 1" CONDUIT (SEE DETAIL).
8. WHEN FIRE SUPPRESSION SYSTEM ACTIVATES THE FOLLOWING MUST OCCUR:
 - EXHAUST FAN STAYS ON OR ACTIVATES
 - MAKE UP AIR SHALL TOWERS UNDER HOOD TURNS OFF
 - BUILDING ALARM ACTIVATES
9. GENERAL CONTRACTOR TO PROVIDE ALL ROOF PENETRATIONS; EXHAUST SHAFT & PRE-FABRICATED BLOWER & MAKE-UP AIR CURTAIN.
10. TURNING UPRAFFT EXHAUST FANS SHALL BE HINGED & CHAINED FOR CLEANING OF VERTICAL DUCT BY MECHANICAL CONTRACTOR.

HOOD INFORMATION							EXHAUST						SUPPLY		TOTAL WEIGHT		SECTION LOCATION
HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	TOTAL CFM	COLLAR(S)				MUA CFM	AC CFM	LBS.	LBS.	
			LENGTH	WIDTH	HEIGHT				WIDTH	LENGTH	DIA.	CFM					
1	HOOD-1, TYPE I	XXEW-95-S	95	54	24	300 SS 100%	HEAVY	1800	10	16	1800	0.672	1354		266		LEFT
2	HOOD-1, TYPE I	XXEW-95-S	95	54	24	300 SS 100%	HEAVY	1800	10	16	1800	0.672	1526		266		RIGHT

HOOD NO.	MARK	LIGHTING DETAILS				GREASE FILTRATION DETAILS				UTILITY CABINET(S)				
		FIXTURE TYPE	BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL	MATERIAL	QTY	SIZE (IN.)	LOCATION	FIRE SYSTEM	SIZE	MODEL	CONTROLS
1	HOOD-1, TYPE I	ROUND LED		2	65.18	X-TRACTOR (SPARK ARRESTOR INCL.)	STAINLESS STEEL	2	16	20				
2	HOOD-1, TYPE I	ROUND LED		2	65.18	X-TRACTOR (SPARK ARRESTOR INCL.)	STAINLESS STEEL	2	16	20	RIGHT	ANSUL R102	3	XKC

HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S) SUPPLIED	QTY	TOTAL CFM	TOTAL S.P.	COLLARS						
				L	W	H							TYPE	MOUNTING	QTY	W	L	DIA.	CFM
1	HOOD-1, TYPE I	FRONT	ASP	95	18	4	NO	YES	NO		1354	0.01	MUA	FACTORY	2	16	30	677	203
2	HOOD-1, TYPE I	FRONT	ASP	107	18	4	NO	YES	NO		1526	0.01	MUA	FACTORY	2	16	30	763	229

HOOD OPTIONS
 UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
 BACK INTEGRAL AIR SPACE - 3 IN WIDE
 CONTINUOUS CAPTURE
 FACTORY MOUNTED EXHAUST COLLAR(S)
 PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
 STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH



PROJECT 11/16/2023
 MARK
 JEFFERSON MS REV1
 HOOD-1, TYPE I
 ACCUREX SOUTHERN CA & HAWAII - 2297
 JONATHAN CABRERA
 JONATHAN.CABRERA@ACCUREX.COM
 (509)430-5326

ACCUREX

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SEAL

CONSULTANTS

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 FOOD SERVICE DESIGN
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 SAN DIEGO, CA 92121
 T 858-457-5955

PROJECT TITLE
 JEFFERSON MIDDLE SCHOOL
 823 ACACIA AVE, OCEANSIDE, CA 92058

OCEANSIDE
 UNIFIED SCHOOL DISTRICT

Foodservice

ISSUED	
#	DESCRIPTION
1	11/29/2023 DRAFT DESIGN CRITERIA SET

PROJECT IDENTIFICATION
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SHEET TITLE
 FOODSERVICE EQUIPMENT EXHAUST HOOD

SHEET NUMBER

K801

DESIGN CRITERIA SET

11/17/2023 11:27:39 BM 3607/Jefferson Middle School/CLSD_JMS_FOOD_IP20-V1

FIRE SYSTEM INFORMATION							
MARK	MODEL	LOCATION	FLOW POINTS		SUPPLY LINE	DETECTION	MARK(S) PROTECTED BY FIRE SYSTEM
			HOODS	PCU			
FIRE SUPPRESSION	ANSUL R-102 WET CHEMICAL	CABINET - RIGHT END OF HOOD-1 TYPE I	6 UTILIZED 11 AVAILABLE		CONTINUOUS	FUSIBLE LINK	HOOD-1, TYPE I SECTION 1 HOOD-1, TYPE I SECTION 2

FIRE SYSTEM OPTIONS AND ACCESSORIES
FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL)
CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED
METAL BLOW-OFF CAPS - INCLUDED
GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE, 2", (ANSUL) - PART# ANSULMECHSHUTOFFVALVE200
HOOD SUPPRESSION TANK - INCLUDED - 3 GAL. - [(1) 3.0 TANK(S)]
REMOTE PULL STATION - STANDARD - FIELD INSTALLATION AT SINGLE POINT OF EGRESS

SPECIAL DESIGN REQUESTS
SDR #K2200330 - K TYPE FIRE EXTINGUISHER

ANSUL R102 (WET CHEMICAL) FIRE PROTECTION SYSTEM - MODEL FSSC

CONTROL PANEL
1. STAINLESS STEEL ENCLOSURE
2. AGENT STORAGE TANK
3. EXPULSION GAS CARTRIDGE
4. ANSUL AUTOMAN RELEASE
5. REGULATOR
6. KICKOUT FOR WIRING MICROSWITCH

NOT TO SCALE

NOTES:
WET CHEMICAL FIRE PROTECTION SYSTEM TO BE ANSUL R-102, DESIGNED IN COMPLIANCE WITH UL 300 REQUIREMENTS.
VERIFICATION OF ALL COOKING EQUIPMENT MAKE, MODEL AND LOCATION REQUIRED FOR ALL FIRE PROTECTION SYSTEMS.
ALL FIRE SYSTEM PIPING IS STANDARDLY TO THE RIGHT END OF THE HOOD UNLESS A WALL IS LOCATED ON THE RIGHT END.
ANSUL AUTOMAN RELEASE TO BE LOCATED WITHIN 60" OF HOOD.

THE BASIC FIRE SYSTEM WILL INCLUDE THE FOLLOWING:
-GAS SHUT-OFF VALVE, IF REQUIRED, TO BE SUPPLIED BY MANUFACTURER (UP TO 2" DIAMETER AS STANDARD), AND INSTALLED BY A LICENSED PLUMBER.
-MICRO SWITCH TO BE SUPPLIED BY MANUFACTURER FOR CONNECTION TO, BUT NOT LIMITED TO, BUILDING ALARM SYSTEMS, EXHAUST AND SUPPLY FANS AND ELECTRICAL POWER SHUT DOWN. FIELD WIRING AND CONNECTIONS TO BE PERFORMED BY A LICENSED ELECTRICIAN.

THE BASIC FIRE SYSTEM DOES NOT INCLUDE THE FOLLOWING:
-FULL DUMP TEST OTHER THAN WHAT IS SPECIFIED PER THE INSTALLATION MANUAL, OR TO SATISFY A STATE OR LOCAL CODE. PERMITS AND TESTING FEES ARE NOT INCLUDED UNLESS NOTED UNDER THE EQUIPMENT SCHEDULE FOR THE FIRE SYSTEM.
-MORE THAN TWO TRIPS TO THE JOBSITE OR SPECIAL TRANSPORTATION, OR OVERNIGHT LOGGING REQUIREMENTS IN REMOTE AREAS. NORMAL TRAVEL DISTANCE IS FIRST 50 MI. (80.5 KM) FROM OFFICE.
-SPECIAL CLASSES OR ADDITIONAL LABOR FOR ACCESS TO SECURITY SENSITIVE AREAS.
-INSTALLATION OF GAS SHUT-OFF VALVE.
-SPECIAL DRAWINGS REQUIRED TO SATISFY STATE OR LOCAL CODE, PLAN EXAMINATION FEES, PE OR PS APPROVAL STAMP.
-UNION LABOR, GOVERNMENT LABOR, OR PREVAILING WAGES REQUIRED FOR FINAL FIELD HOOK-UP.
-ANY AND ALL ELECTRICAL COMPONENTS/CONNECTIONS REQUIRED TO SHUT DOWN FANS, SHUT OFF DEVICE FOR ELECTRIC COOKING EQUIPMENT (SHUNT TRIP BREAKER), OR ACTIVATE AN ALARM SYSTEM, ETC.
-ANY DISMANTLING OR REASSEMBLY REQUIRED TO GAIN ACCESS TO THE FIRE SUPPRESSION PIPING LOCATED ON THE TOP OF THE HOOD.
-ROUGH IN HIDDEN CONDUIT FOR REMOTE PULL STATION OR GAS VALVE (FLUSH MOUNTED PULL STATION).
-INSTALLATION OF MORE THAN (1) REMOTE PULL STATIONS OR DISTANCES GREATER THAN 20 FT (6.1M).
-PARTS OR LABOR REQUIRED TO CORRECT WIRING DUE TO COOKING EQUIPMENT CHANGES OR DEVIATION FROM PLANS, OR ANY CHARGES FOR MISSING OR ADDITIONAL PARTS OTHER THAN THOSE INDICATED ON THE FIRE SUPPRESSION DETAIL.

WIRING DIAGRAMS
WDP/DPT MICRO SWITCH
DPT/DPT SWITCHES PROVIDED BY MANUFACTURER MAY BE WIRED PER TYPICAL EXAMPLES SHOWN. VERIFY WITH LOCAL CODES AND EQUIPMENT SUPPLIED AS THE CONNECTION NEEDED FOR YOUR INSTALLATION.

CONNECTION TO BUILDINGS ALARM
VOLTAIR FREE CONTACTS OR 24VDC (TYPICAL)

CONNECTION TO COOKING EQUIPMENT SHUT DOWN
COOKING EQUIPMENT SHUT OFF VALVE. IF BEST AS AN ALTERNATE TO SHUTTING DOWN COOKING EQUIPMENT, VERIFY WITH LOCAL CODES AND EQUIPMENT SUPPLIED AS THE CONNECTION NEEDED FOR YOUR INSTALLATION.

CONNECTION TO FAN SHUT DOWN
MANUAL SWITCH

NOTES:
1. DENOTES FIELD INSTALLATION
2. DENOTES FACTORY INSTALLATION
3. DO NOT USE BLACK WIRE OR SNAP-ACTION SWITCH IN NORMAL INSTALLATION. BLACK WIRE TO BE USED ONLY FOR EXTRANEOUS ALARM, LIGHT CIRCUITS, ETC.

UL NSF LISTED PRODUCT

JEFFERSON MS REV1

PROJECT 11/16/2023

MARK

ACCUREX SOUTHERN CA & HAWAII - 2297
JONATHAN CABRERA
JONATHAN.CABRERA@ACCUREX.COM
(509)430-5528

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PROJECT TITLE
JEFFERSON MIDDLE SCHOOL
823 ACACIA AVE. OCEANSIDE, CA 92038



Foodservice

ISSUED		
#	DATE	DESCRIPTION
	11/29/2023	DRAFT DESIGN CRITERIA SET

PROJECT IDENTIFICATION
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SHEET TITLE
FOODSERVICE
EQUIPMENT EXHAUST
HOOD

SHEET NUMBER

K802

DESIGN CRITERIA SET

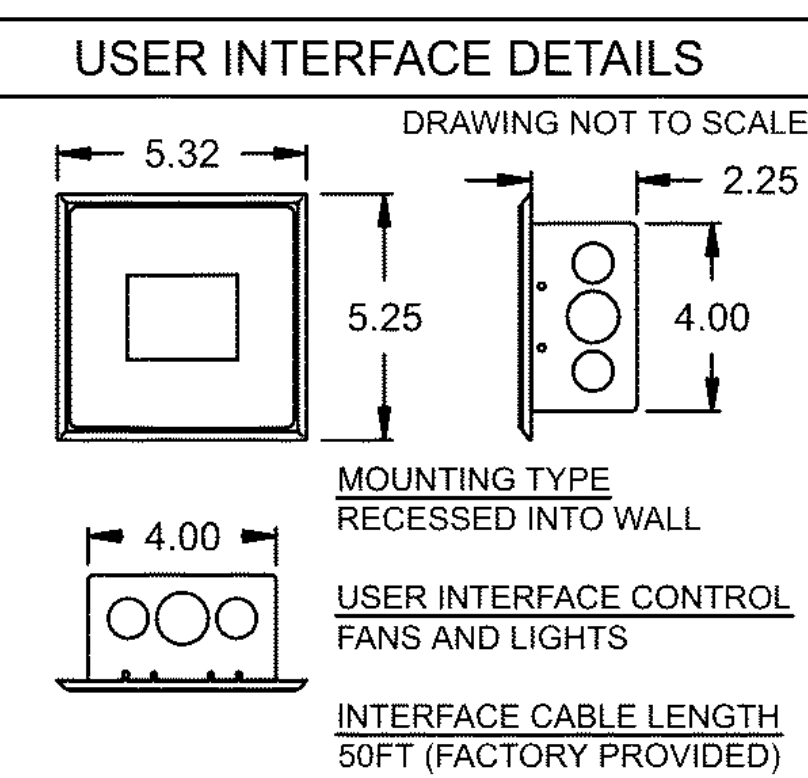
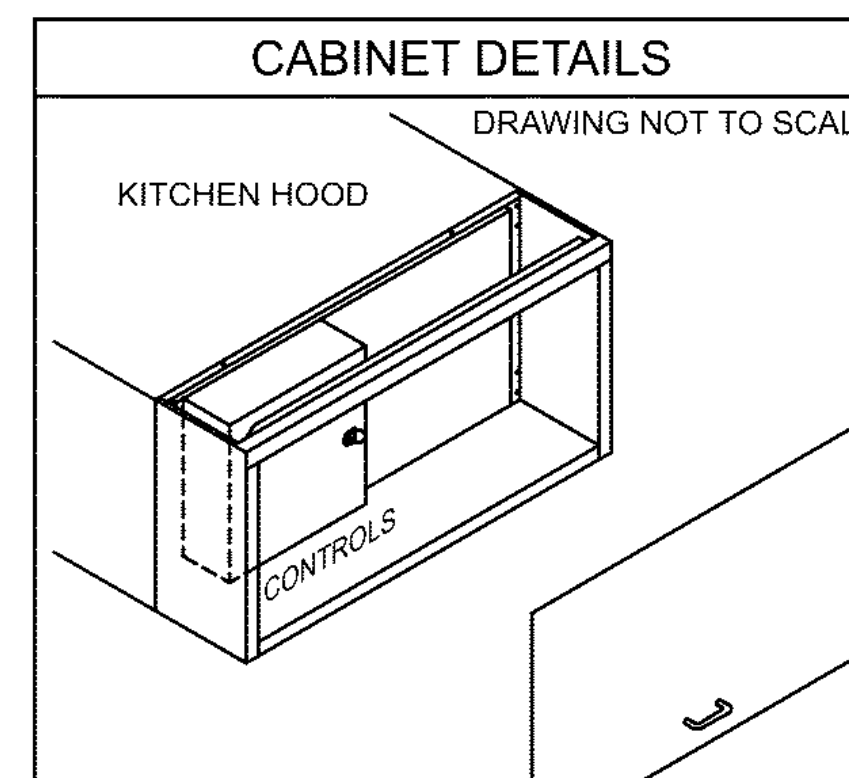
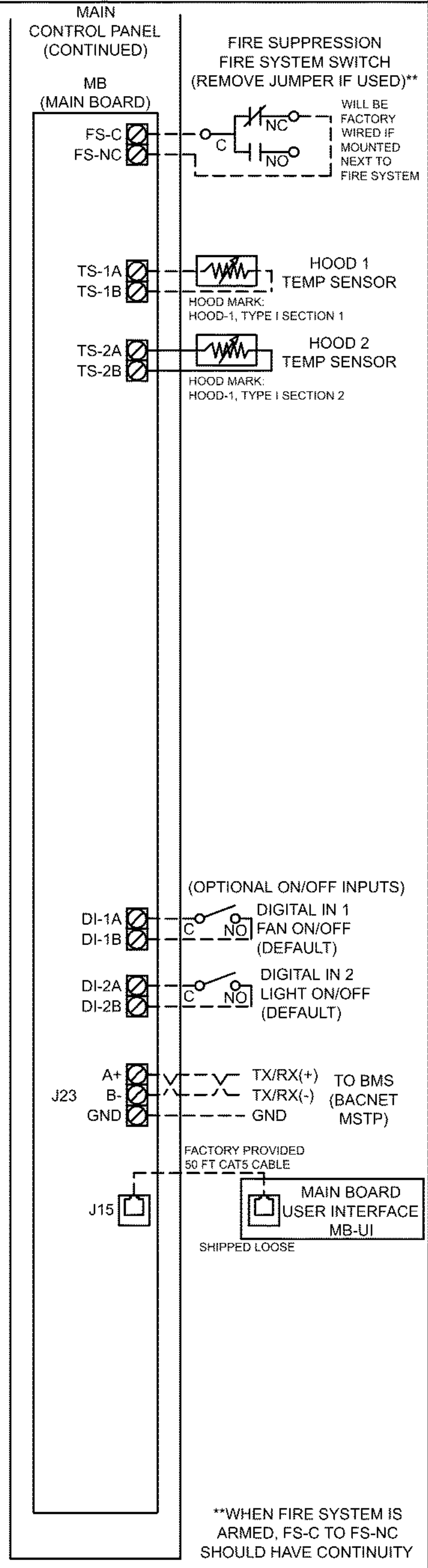
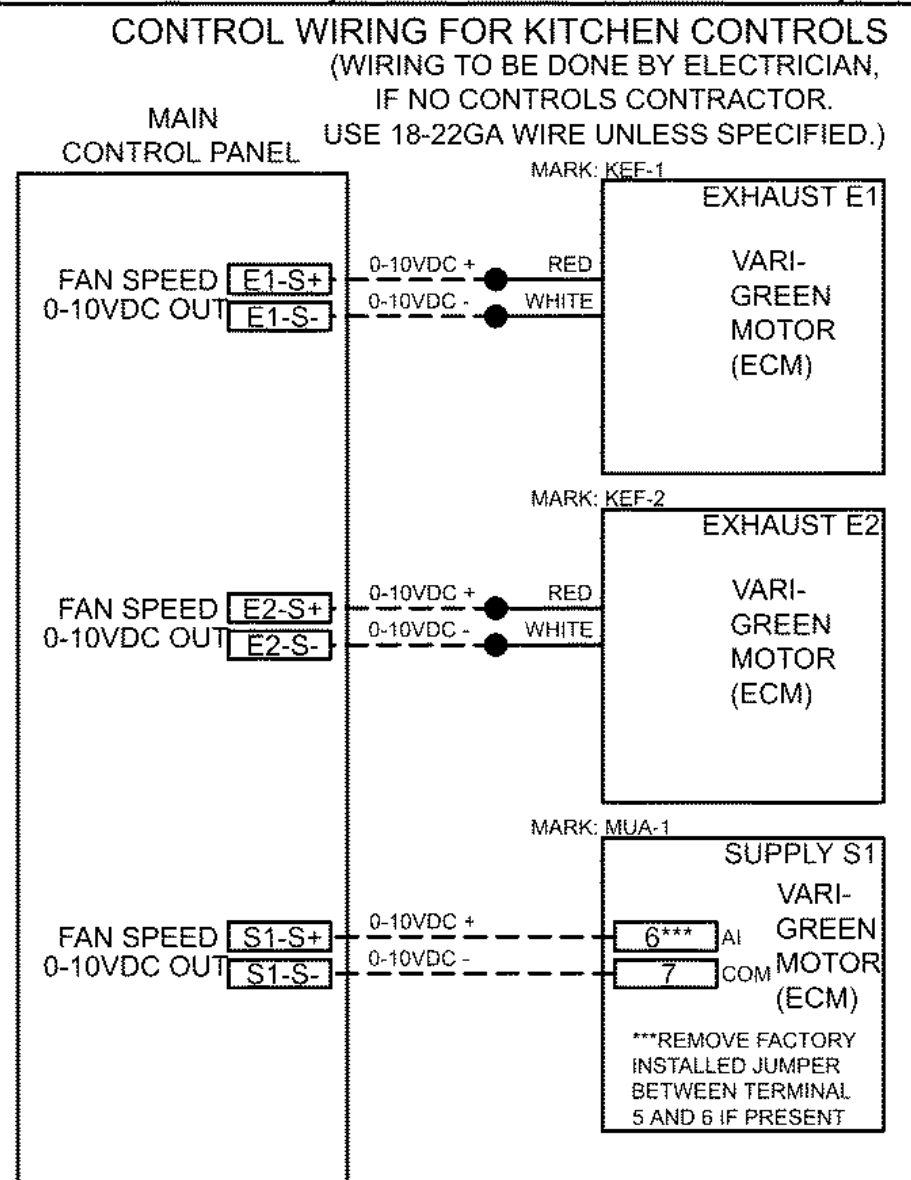
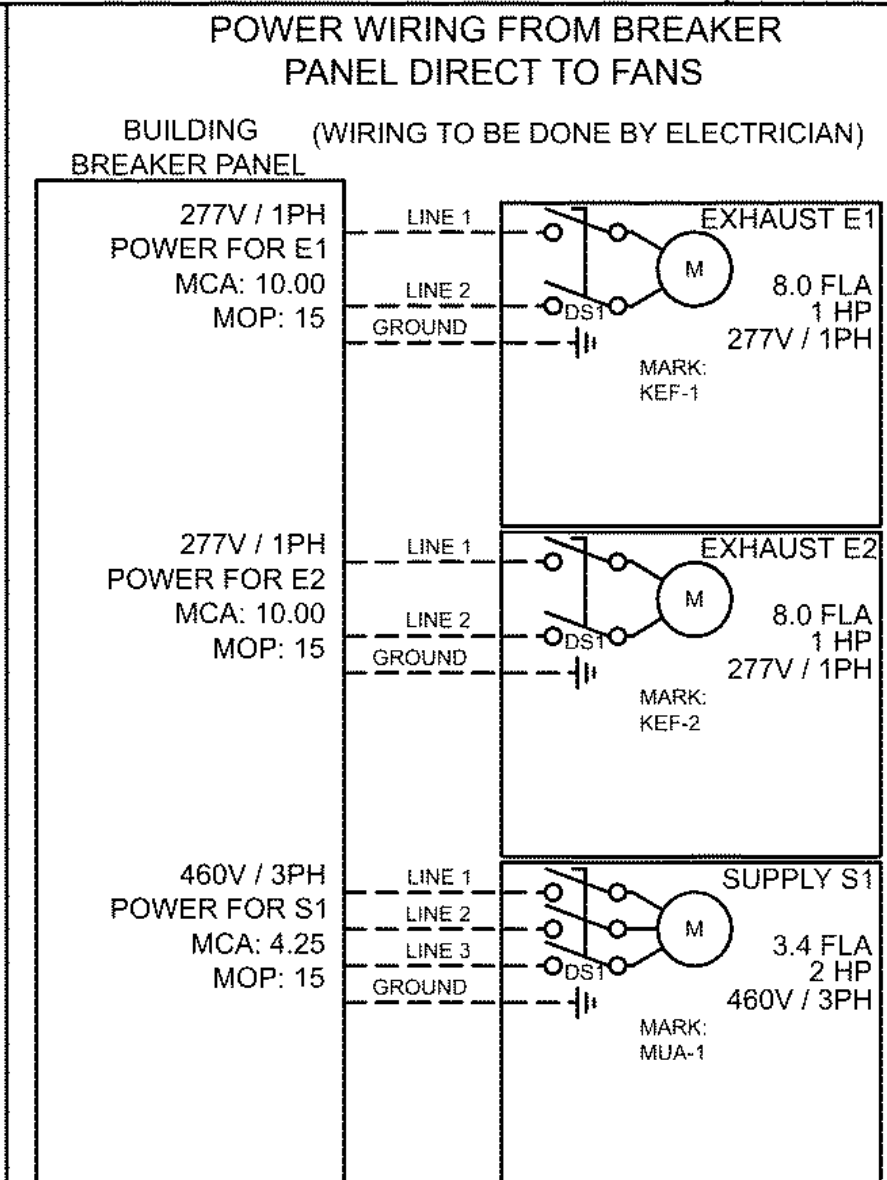
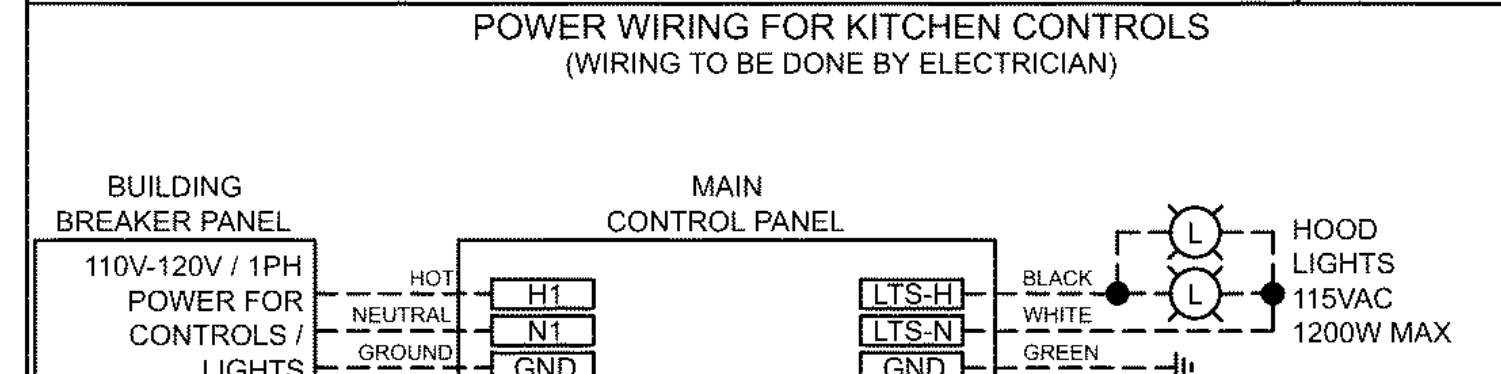
CONTROL INFORMATION

Table with columns: MARK, ELECTRICAL CONTROL PACKAGE, LOCATION, USER INTERFACE, FAN #, TYPE, FAN, FAN MARK, ZONE, CFM, FANS CONTROLLED (MOTOR HP, MOTOR VOLT, CYCLE, MOTOR PHASE, MOTOR STARTER IN PANEL, VFD IN PANEL).

CONTROL FEATURES

- HOOD LIGHT CONTROL
TEMP SENSORS (FACTORY INSTALLED) - QTY. 2
DRY FIRE CONTACTS - QTY. 2
LIGHTS OFF DURING FIRE
EXHAUST MAX DURING FIRE
SUPPLY OFF DURING FIRE
BMS INTEGRATION - BACNET MSTP
GAS RESET

ACCUREX logo, CAUTION, ATTENTION, WIRING DIAGRAM CODE: WDC#, JOB NAME: JEFFERSON MS REV1, MODEL: XKC-CV-SB-21-2-1-0, SERIAL NUMBER: WDSN#, MARK: CONTROLS



NOTE: 1) WHEN CONTROLS ARE MOUNTED IN HOOD-MOUNTED OR WALL-MOUNTED UTILITY CABINET... 2) MINIMUM OF 36" OF CLEARANCE RECOMMENDED IN FRONT OF CONTROL CABINET

ZONE CONFIGURATION table with columns: ZONE #, ZONE, ROOM TEMP, PRESET.

HOOD CONFIGURATION table with columns: HOOD #, HOOD MARK, HOOD MARK, ZONE, EXHAUST, SUPPLY, MB-TEMP SENSORS, HCB.

FAN CONFIGURATION table with columns: FAN #, TYPE, FAN, FAN MARK, ZONE, MIN CFM, MAX CFM, MODBUS VFD, VFD ADDRESS, MIN FREQ, MAX FREQ, MIN VDC, MAX VDC.

ACCUREX logo, PROJECT: JEFFERSON MS REV1, DATE: 11/16/2023, CONSULTANTS: OCEANSIDE UNIFIED SCHOOL DISTRICT, PROJECT IDENTIFICATION: JEFFERSON MIDDLE SCHOOL

HPA architecture logo and contact info: www.hpiarchitecture.com, 6020 Cornerstone Court West, San Diego, CA 92121, 858.203.4999

CONSULTANTS: OCEANSIDE UNIFIED SCHOOL DISTRICT

PROJECT TITLE: JEFFERSON MIDDLE SCHOOL, 823 ACACIA AVE, OCEANSIDE, CA 92038

Foodservice

ISSUED table with columns: #, DATE, DESCRIPTION.

PROJECT IDENTIFICATION: THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTOCAD... THE ORIGINAL SIZE OF THE SHEET IS 30" X 42"

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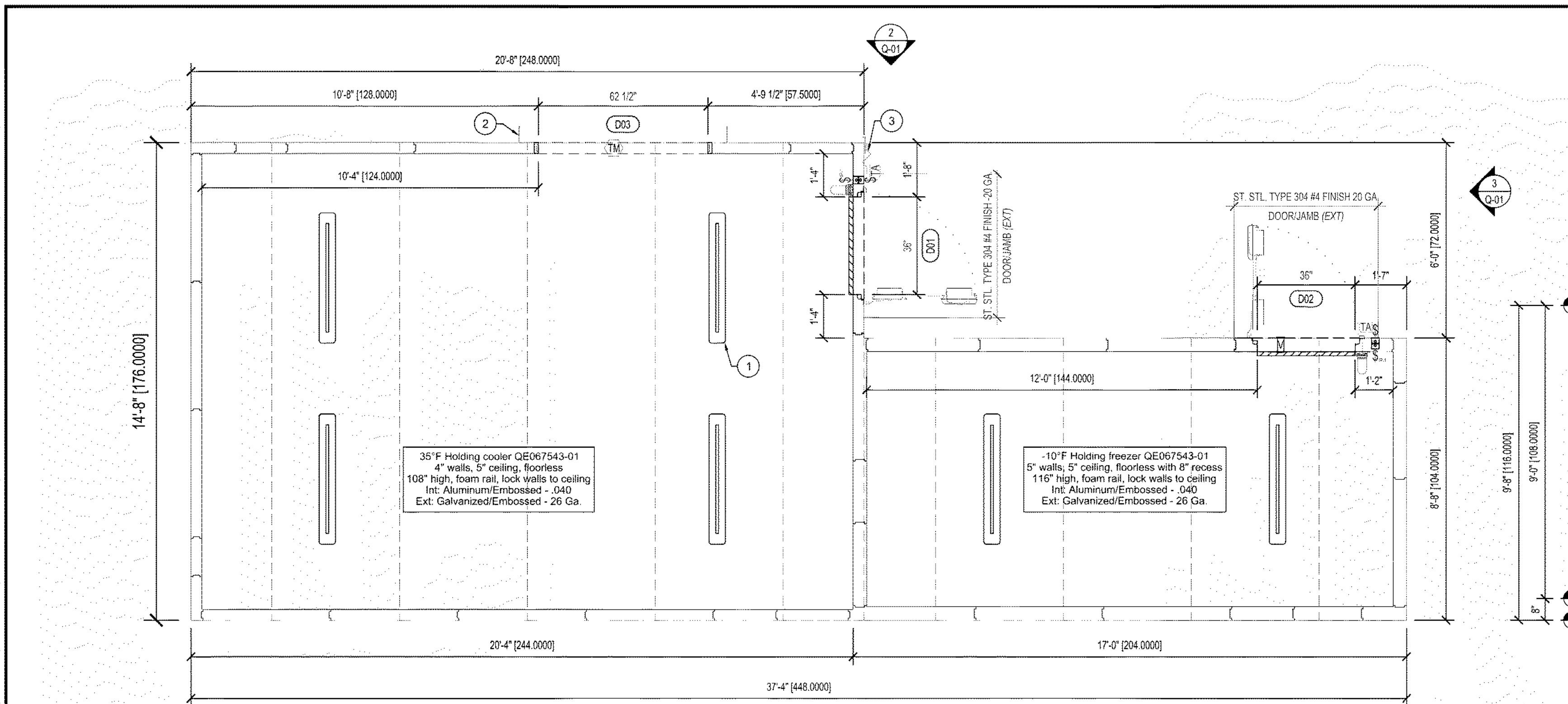
SHEET TITLE: FOODSERVICE EQUIPMENT WIRING DIAGRAM

SHEET NUMBER: K803

DESIGN CRITERIA SET

ORNESS DESIGN GROUP INC
FOODSERVICE DESIGN
5955 MIRA MESA BLVD, SUITE H
SAN DIEGO, CA 92121
T 858-457-5955

11/17/2023 11:27:41 AM 36017 Jefferson Middle School/USD, JMS, FOOD, P00-V1



KEY NOTES
1. LIGHT LED 45W 4' EVERIDGE
2. VERTICAL TRIM L-SHAPED CLOSURE... LENGTH 90". FINISH: 20GA T304 #4 S/S... VERIFY LOCATION
3. WANSICOTING EXTERIOR: (48" X 24") FINISH: 100 ATB... VERIFY LOCATION
4. REMOVABLE CEILING CLOSURE: (8'0" X 24") FINISH: 20GA T304 #4 S/S... VERIFY LOCATION

FOR APPROVAL ONLY

BOX DESCRIPTION: COOLER/FREEZER COMBO
Dimensions:
External (C.D.): 37' 4" x 14' 8" x 9' 8" - w x d x h
Compartment 1 - Holding freezer
Internal (I.D.): 18' 2" x 7' 10" x 9' 3" - w x d x h
Volume: 1171.87 / E067543-01
Compartment 2 - Holding cooler
Internal (I.D.): 20' 0" x 14' 0" x 8' 7" - w x d x h
Volume: 2493.87 / E067543-01



COMPLIANCE
WALK-IN MEET OR EXCEED ALL PRESCRIPTIVE STANDARDS OF THE EMERGENCY PREPAREDNESS AND SECURITY ACT (EISA) OF 2007

REFERENCE SYMBOL LEGEND
KEY NOTE
DOOR TAG
JAMB GUARDS
DAILY LIP
TAMING
REVISION NUMBER

DETAIL REF
DWM NUMBER
TAMING
REVISION NUMBER

SITE NOTATION
WHEN APPLICABLE, LINES BUILDING FLOOR HAVE TO BE AND CANNOT BE INSTALLED BEFORE OR AFTER WALK-IN INSTALLATION IF SO PROVIDE TILE THICKNESS
ALLOW 2" FOR COOLER AND FREEZER MINIMUM AIR SPACE ALL AROUND WALK-IN FOR AMPLIFIED AIR CIRCULATION

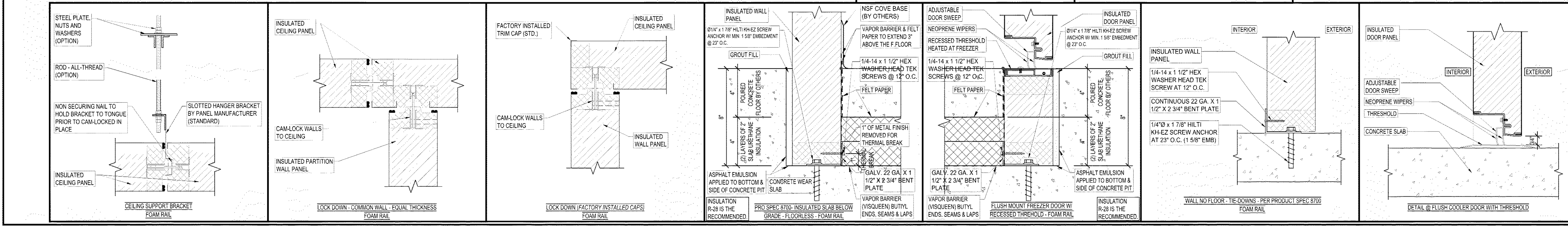
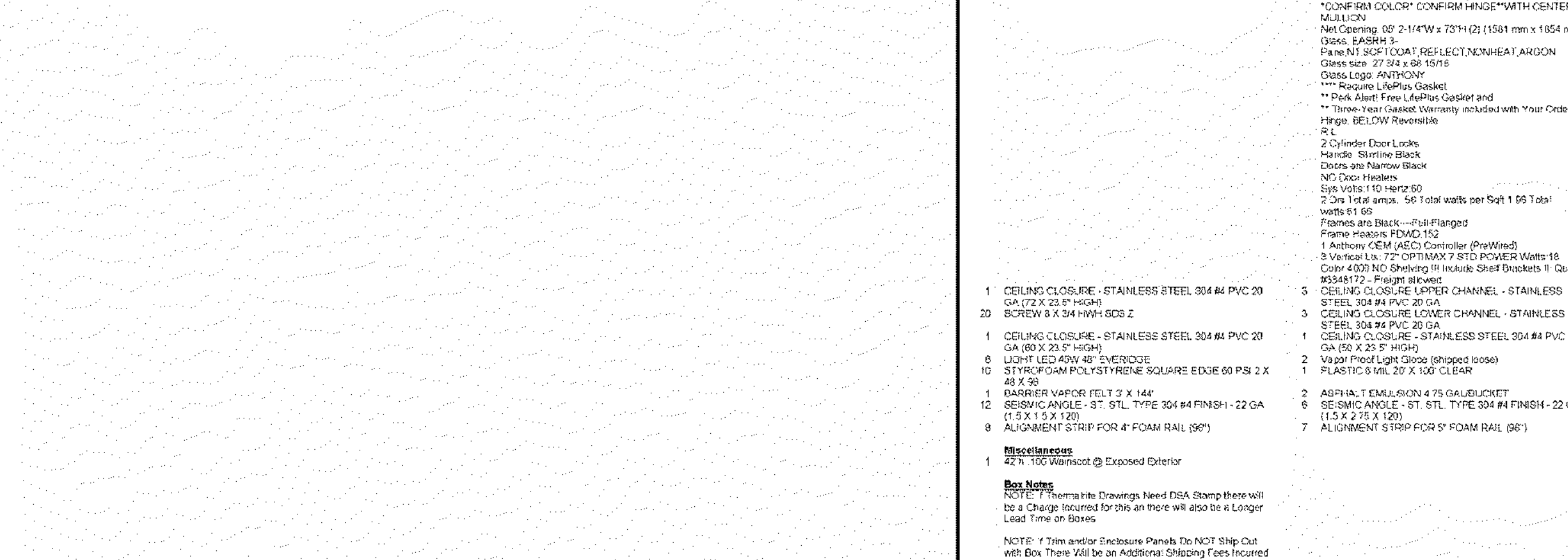
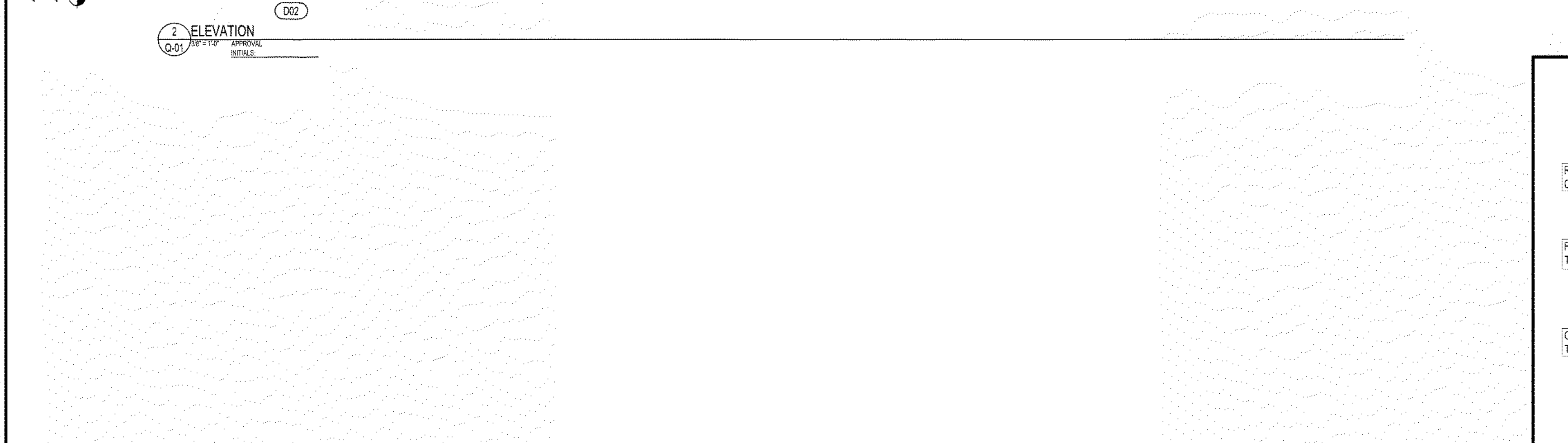
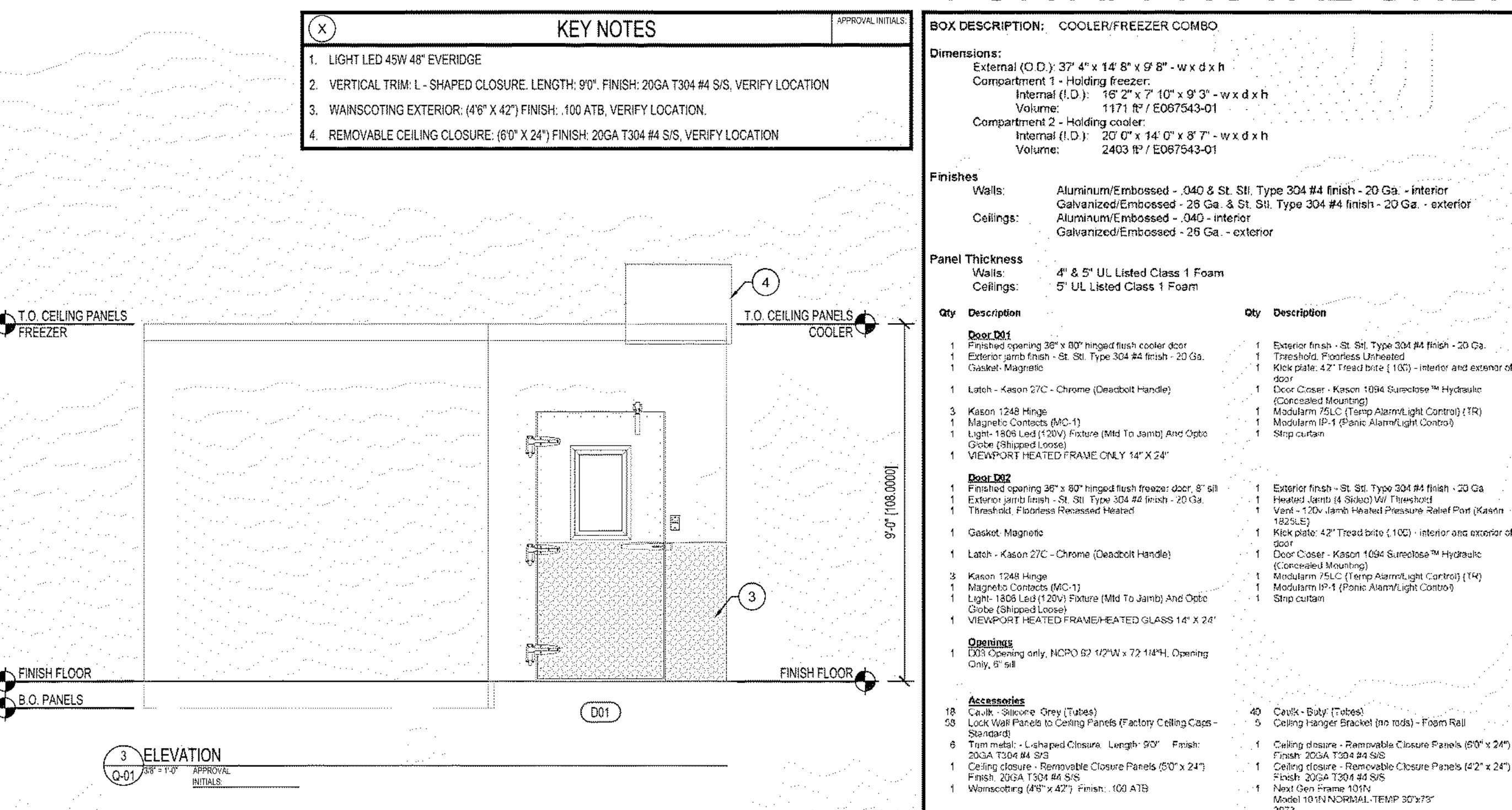
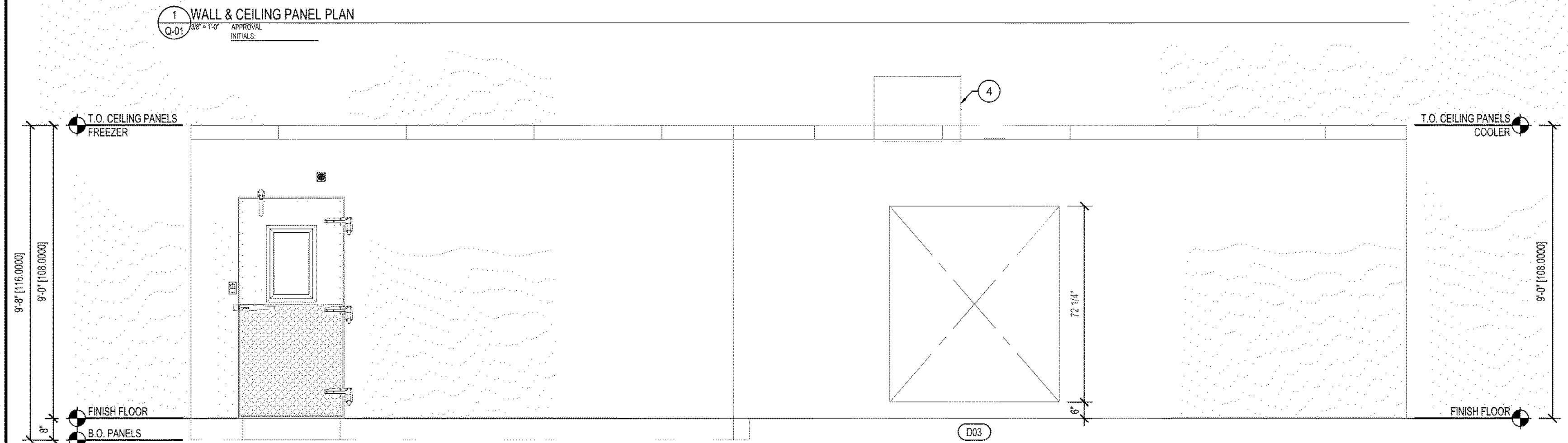
WARNINGS
DO NOT REMOVE PANELS FROM COOLER/FREEZER TRAY
DO NOT DISCONNECT OR ALTER ELECTRICALS, ESPECIALLY REFRIGERATION SYSTEMS, WITHOUT THE ASSISTANCE OF A LICENSED ELECTRICIAN

CONSTRUCTION (STANDARD)
CORNERS AND T-JUNCTIONS TO BE ONE PIECE CONSTRUCTION WITH 3/8" RADIUS AT ALL INSIDE VERTICAL CORNERS. JOINTS SEALED WITH PVC GASKET AT INT. EXT. PERIMETER OF PANELS. CONNECTED TO CAM LOCK FASTENERS

ELECTRICAL NOTICE
ALL ELECTRICAL COMPONENTS WITHIN THE WALK-IN, I.E. LIGHT SWITCHES, PRESSURE RELIEF PORTS, JAMB HEATERS SHALL BE FACTORY PRE-WIRED FOR HOOK UP BY ELECTRICAL CONTRACTOR

CONCRETE SLAB / PAD NOTICE
SLAB / PAD MUST BE LEVEL WITHIN 1/4" OVER 10'4" IN ANY DIRECTION
SLAB / PAD MUST BE FLAT, SMOOTH AND UNIFORM WITH MAXIMUM 1/4" TOTAL DEVIATION OVER 10'4" STRAIGHTEDGE IN ANY DIRECTION

REVISIONS
1. DATE: 11/29/2023
DESCRIPTION: DRAFT DESIGN CRITERIA SET



Customer/Dealer
JEFFERSON MIDDLE SCHOOL - OCEANSIDE USD
Site Information
JEFFERSON MIDDLE SCHOOL - OCEANSIDE USD
Create Dwg Date: 11/17/2023
Project #: E067543-01
Sheet #: Q-01

PROJECT TITLE
JEFFERSON MIDDLE SCHOOL
823 ACACIA AVE, OCEANSIDE, CA 92038



Foodservice

Table with columns: #, DATE, DESCRIPTION. Row 1: 1, 11/29/2023, DRAFT DESIGN CRITERIA SET

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SHEET TITLE
FOODSERVICE EQUIPMENT WALK-INS

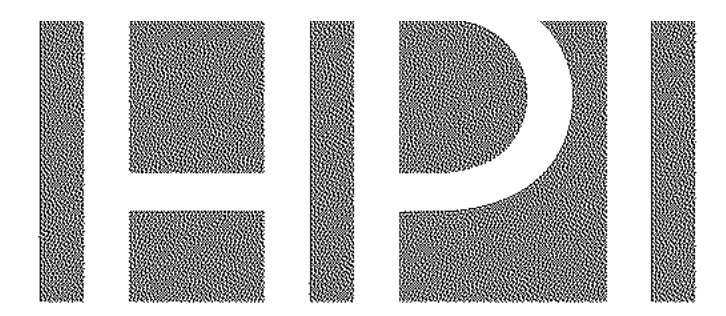
SHEET NUMBER

K901

DESIGN CRITERIA SET

11/17/2023 11:32:04 BM 3607 Jefferson Middle School/USD, JMS, FOOD, P20-V1

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PROJECT TITLE

JEFFERSON MIDDLE SCHOOL
823 ACACIA AVE, OCEANSIDE, CA 92038



Foodservice

ISSUED		
#	DATE	DESCRIPTION
1	11/29/2023	DRAFT DESIGN CRITERIA SET

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SHEET TITLE
FOODSERVICE
EQUIPMENT WALK-INS

SHEET NUMBER

K902

DESIGN CRITERIA SET

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ELECTRICAL INFORMATION			
ITEM DESCRIPTION	QTY.	VOLTAGE (V) (EA)	AMPS (A) (EA)
KASON 182LE NARROW JAMB PRESSURE RELIEF PORT	1	120	0.05
EVERIDGE 4' LED LIGHT (45W)	6	120	0.38
KASON 1806 LED FIXTURE	2	120	0.09
VIEWPORT (14" X 24") HEATED	2	120	1.00
MODULARM 75LC	2	120	0.03
DOOR: 36" X 80" (4-SIDED HEAT)	1	120	0.93



THERMALRITE
15600 37TH AVE N. SUITE 100
PLYMOUTH, MN 55446
PHONE (763) 541-1450 FAX (763) 541-1963



COMPLIANCE
WALK-INS MEET OR EXCEED ALL PRESCRIPTIVE STANDARDS OF THE ENERGY INDEPENDENCE AND SECURITY ACT (EISA) OF 2007

SITE NOTATION

- WHEN APPLICABLE - COVERING FLOOR HAVE TILE AND GROUT INSTALLED BEFORE OR AFTER WALK-IN INSTALLATION IF SO PROVIDE TILE THICKNESS.
- ALLOW 2" FOR COOLER AND FREEZER MINIMUM AIR SPACE ALL AROUND WALK-IN FOR AMPLIFIED AIR CIRCULATION.

WARNINGS

- DO NOT TOUCH WALK-IN COOLER OR FREEZER DOOR PANELS FROM THE INSIDE OR EXTERIOR.
- DO NOT DISCONNECT WALK-IN PANELS. PROPERLY SERVICE REPAIRS TO THE WALK-IN PANELS TO THE O.K.

CONSTRUCTION (STANDARD)

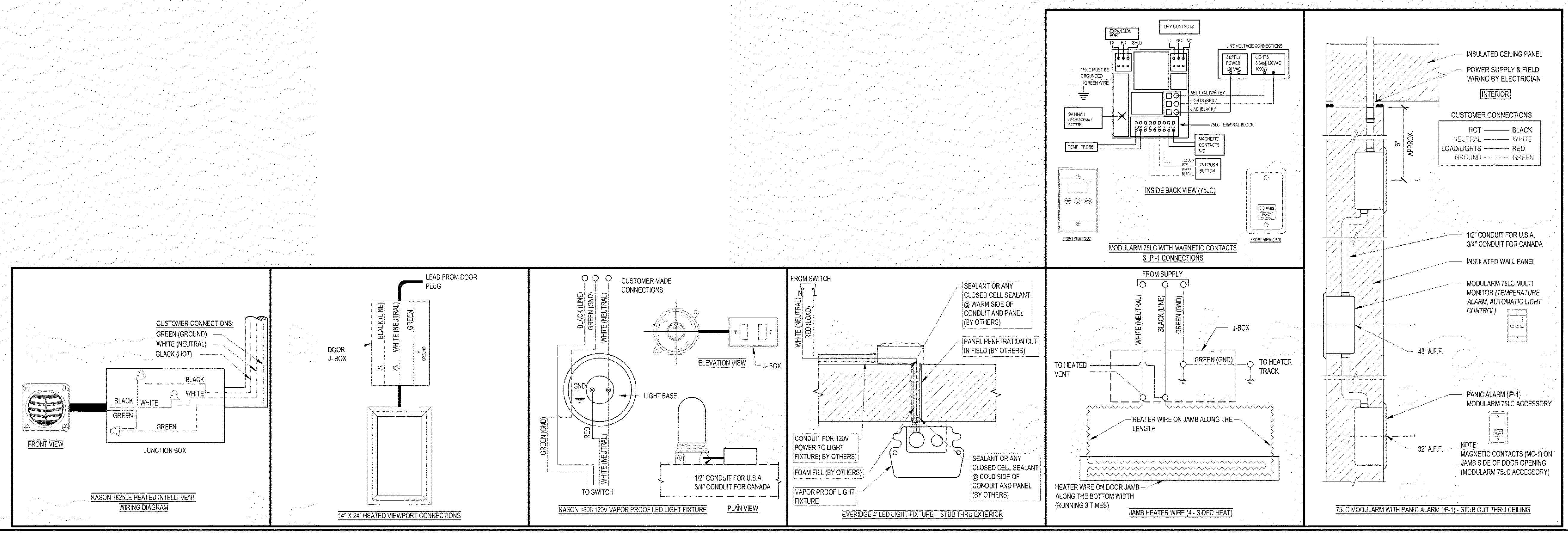
- CORNERS AND T-WALLS TO BE ONE PIECE CONSTRUCTION W/ 3/8" RADIUS AT ALL INSIDE VERTICAL CORNERS. JOINTS SEALED W/ PVC GASKET AT INT. & EXT. PERIMETER OF PANELS CONNECTED W/ CAM LOCK FASTENERS.
- ALL CEILING AND WALL PANELS ARE NOT DESIGNED TO CARRY ADDITIONAL CONDENSING UNIT WEIGHT UNLESS SPECIFICALLY NOTED OTHERWISE AND DESIGNATED IN PLAN.

ELECTRICAL NOTICE

- ALL ELECTRICAL COMPONENTS WITHIN THE WALK-INS I.E. LIGHT SWITCHES, PRESSURE RELIEF PORTS, JAMB HEATERS SHALL BE FACTORY PRE-WIRED, FOR HOOK UP BY ELECTRICAL CONTRACTOR.
- ALL LIGHT FIXTURES SUPPLIED ARE SHIPPED LOOSE FOR INSTALLATIONS BY ELECTRICAL CONTRACTOR.
- THEMATIC SHALL ACCEPT NO RESPONSIBILITY FOR ANY BACK CHARGES ASSOCIATED WITH INSTALLATION OF LIGHT FIXTURES OR FIELD WIRING CONNECTIONS.

CONCRETE SLAB / PAD NOTICE

- SLAB / PAD MUST BE LEVEL WITHIN 1/4" OVER 10'-0" IN ANY DIRECTION.
 - SLAB / PAD MUST BE FLAT, SMOOTH AND UNIFORM WITH MAXIMUM 1/4" TOTAL DEVIATION OVER 10'-0" STRAIGHTEDGE IN ANY DIRECTION.
- THESEBY ACKNOWLEDGE THAT HAVE BEEN INFORMED OF THE ABOVE SLAB / PAD REQUIREMENTS AND FAILURE TO COMPLY WILL RESULT IN REFUSAL TO INSTALL AND/OR WILL VOID ANY WARRANTY COVERAGE FOR ISSUES ON THIS WALK-IN RESULTING FROM SUCH INSTALLATION.



1			
REV	DESCRIPTION	DATE	BY
	Approval Status Block		
Drawing Reviewed By:			
Review Date:			
Please Check Appropriate Field			
Approved as Drawn:			
Revise and Resubmit:			
Customer Service Rep.			
MARIAN PORTILLO			
Submitter Drafter Shop Drafter			
DN			
Save Dwg Date: 11/17/2023			
Customer/Dealer			
ORNESSE DESIGN GROUP INC 5955 MIRA MESA BLVD SUITE H SAN DIEGO, CA 92121			
Site Information			
JEFFERSON MIDDLE SCHOOL - OCEANSIDE USD			
Create Dwg Date: 11/17/2023			
Project #	E067543-01		
Sheet #	QE-01		

SECTION 11 40 00 - FOODSERVICE EQUIPMENT

PART 1 - GENERAL

1.1 SCOPE

- A. The work referred to in this section consists of furnishing all labor and material required to provide and deliver all equipment hereinafter specified into the building. Specified equipment must be supplied per specifications without substitution. If "or equal" is adjacent to model number substitutions may be accepted if all criteria of specified brand is met or exceeded. If the alternate model is not approved by the Owner for any reason the specified item must be supplied at no additional cost. Un-crate, assemble, hang, set in place, level, and completely install all equipment, exclusive of final utility connections. Final utility connections to all equipment, shall be part of the work under additional appropriate sections of the work and not part of the food service work.
- B. Coordinate Owner and Vendor-supplied equipment noted on the drawings or in the specifications as NIKEC. Show on roughing in Plans and sizes, utilities, and other requirements as furnished in the Specifications, by Owner or appropriate supplier in submittals as if the equipment is contractor furnished.
- C. Field measurements shall be made prior to installation of any equipment item.
- D. The cutting of holes in equipment for pipe, drains, electrical outlets, etc., required for this installation, shall be part of this work. Work shall conform to the highest standards of workmanship and shall include welded sleeves, collars, ferrules and escutcheons.
- E. Repair of all damage to the premises as a result of the equipment installation as well as the removal of all debris left by the work of this section.
- F. Food service equipment and fixtures shall be cleaned and ready for operation at the time the facility is turned over to the Owner for final inspection by the Owner's Representative.

1.2 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Related Sections include the following:
 - 1. Division 1 Section "Product Requirements". Conditions for acceptance of products by manufacturers and for substitutions. Unless specifically noted, no substitutions will be considered
 - 2. Division 1 Section 01 78 00 "Warranties and Guarantees"
 - 3. Division 5 Section 05 50 00 "Metal Fabrications" for equipment supports.
 - 4. Divisions 22 Section 22 05 29 "Hangers and Supports for Plumbing Piping and Equipment" and Division 23 Section 23 05 29 "Hangers and Supports for HVAC Equipment". General requirements for supports and anchors for pipe and duct systems associated with food service equipment.
 - 5. Refer to Division 23 "Heating, Ventilation, and Air Conditioning (HVAC)" for supply and exhaust fans; exhaust ductwork; service roughing-ins; drain traps; atmospheric vents; valves, pipes, and fittings; fire-extinguishing systems; and other materials required to complete food service equipment installation.

- 6. Division 26 Section "Electrical" for connections to fire alarm systems, wiring, disconnects, and general requirements and other electrical materials required in addition to those specified, as applicable to electrical work associated with food service equipment.
- C. All electric services including wiring to, and final connections to, the fixtures except, as specified differently in the specifications, drawings, or herein.
- D. All water, waste and gas services to the fixtures including shut-off valves, trim, traps, etc., and final connections to the fixtures, except as specified differently in the specifications, drawings, or herein.
- E. All hood or ventilator duct work above the connection position on such exhaust hoods or exhaust ventilators, except as specified differently in the specifications, drawings, or herein. Final welded connections at the junction point of exhaust hoods or exhausts ventilators, shall be part of the food service work.
- F. Floors, quarry tile, concrete bases, walls, ceilings, finishes and related building work, except as specified differently in the specifications, drawings or herein.

1.3 DEFINITIONS

- A. Terminology Standard: Refer to NSF 2, "Food Equipment" or other applicable NSF standards for definitions of food service equipment and installation terms not otherwise defined in this Section or in other referenced standards.
- B. OFOI: Owner Furnished Owner Installed Equipment. Where indicated, Owner will furnish and install equipment items.
- C. OFCI: Owner Furnished Contractor Installed Equipment. Where indicated, Owner will furnish equipment to be installed by Contractor.
- D. CFCl: Contractor Furnished Contractor Installed Equipment.
- E. NIKEC: Not Included in Kitchen Equipment Contract.
- F. KEC: Kitchen Equipment Contractor

1.4 SUBMITTALS

- A. Product Data: For each type of food service equipment indicated. Include manufacturer's specification and cut sheet with model number etc. and cover page indicating quantity, accessories, requirements for access and maintenance clearances, water and drainage, power or fuel, and service-connections including roughing-in dimensions.
- B. Shop Drawings: For food service equipment not manufactured as standard production and catalog items by manufacturers. Include plans, elevations, sections, roughing-in dimensions, fabrication details, service requirements, and attachments to other work.
 - 1. Wiring Diagrams: Details of wiring for power, signal, and control systems and differentiating between manufacturer-installed and field-installed wiring.
 - 2. Piping Diagrams: Details of piping systems and differentiating between manufacturer-installed and field-installed piping.

- C. Coordination Drawings: For locations of food service equipment and service utilities. Key equipment with item numbers and descriptions indicated in Contract Documents. Include plans and elevations of equipment, access- and maintenance-clearance requirements, details of concrete or masonry bases and floor depressions, and service-utility characteristics.
- D. Contract Document Drawings:
1. Drawings furnished, constitute a part of these specifications show locations of equipment and general arrangement of mechanical and electrical services. Necessary deviation from the illustrated arrangements to meet structural conditions, shall be considered a part of the work of this section. Such deviations shall be made without expense to the Owner.
 2. The drawings are for the assistance and guidance of the Food Service Equipment Contractor. Exact locations shall be governed by the building configuration. The Food Service Equipment Contractor shall accept his contract with this understanding.
 3. Should there be a conflict between the drawings and the specifications, the specifications shall govern. Upon discovery, all errors, omissions, conflicts, and ambiguities are to be submitted to the Architect via formal RFI for clarification and resolution. A clarification memo or addendum will be issued, if required. If no RFI is submitted, the Contractor shall assume responsibility for that which places the greatest burden upon the Contractor. No allowances will be made in favor of the Contractor for errors, omissions, conflicts, or ambiguities reported after award of contract.
- E. Utility Roughing-in Drawings:
1. The Food Service Equipment Contractor shall prepare and submit one bond or a valid print, of all roughing-in drawings, showing information necessary for the roughing-in of refrigerant lines, syrup/beer lines, plumbing, steam, mechanical and electrical utility requirements. Drawings shall also include construction requirements necessary for all equipment including floor depressions, raised bases, wall blocking, wall recesses and any critical dimensions for specific equipment requirements. Approval will be made upon one print which will be returned to the Food Service Equipment Contractor for reproduction purposes. Drawings not properly submitted in this format, will not be reviewed. Drawings without an "Approved" or an "Approved as Noted" stamp, will not be reviewed. Drawings without an "Approved as noted" stamp, will not be considered an authorized shop drawing and will not be allowed on the job site.
 - a. Furnished four (4) sets "Approved" and/or "Approved as Noted" shop drawings, for distribution to the field, as directed.
- F. Shop Fabrication Drawings: The Food Service Equipment Contractor shall prepare and submit one bond or original print, of all shop drawings, showing all information necessary for fabrication and installation of the work of this section. Approval will be made upon one print which will be returned to the Food Service Equipment Contractor for reproduction purposes. Drawings not properly submitted in this format, will not be reviewed. Drawings without an "Approved" or an "Approved as Noted" stamp, will not be considered an authorized shop drawing and will not be allowed on the job site.
- G. Samples for Initial Selection: Manufacturer's color charts showing the full range of colors available for exposed products with color finishes.
- H. Samples for Verification: Of each type of exposed finish required, minimum 4-inch- (100-mm-) square or 6-inch- (150-mm-) long sections of linear shapes and of same thickness and material indicated for work. Where finishes involve normal color and texture variations, include Sample sets showing the full range of variations expected.

- I. Product Certificates: Signed by manufacturers of refrigeration systems or their authorized agents certifying that systems furnished comply with requirements and will maintain operating temperatures indicated in the areas or equipment that they will serve.
- J. Maintenance Data: Operation, maintenance, and parts data for food service equipment to include in the maintenance manuals specified in Division 1. Include a product schedule as follows:
 - 1. Product Schedule: For each food service equipment item, include item number and description indicated in Contract Documents, manufacturer's name and model number, and authorized service agencies' addresses and telephone numbers.

1.5 QUALITY ASSURANCE

- A. Kitchen Equipment Contractor Qualifications: Kitchen Equipment Contractor (KEC) to be licensed by state regulating board and shall have completed no fewer than five (5) Food Service Installations similar in material, design, and extent to that indicated for this Project, which have resulted in satisfactory in-service performance.
- B. Fabricator Qualifications: Fabricators shall have been regularly engaged in the manufacture of Food Service Equipment of the types, capacities, and sizes required, whose products have been in satisfactory use in similar service for no fewer than five (5) years.
- C. Source Limitations: Obtain each type of food service equipment through one source from a single manufacturer.
- D. Product Options: Drawings indicate food service equipment based on the specific products indicated. Other manufacturers' equipment with equal size and performance characteristics may be considered. Refer to Division 1 Section 01 25 00 "Substitution Procedures".
- E. Pre-installation Conference: Conduct conference at Project site to comply with requirements of Division 1 Section 01 30 00 "Administrative Requirements" for all required project meetings. Review methods and procedures related to food service equipment including, but not limited to, the following:
 - 1. Review access requirements for equipment delivery.
 - 2. Review equipment storage and security requirements.
 - 3. Inspect and discuss condition of substrate and other preparatory work performed by other trades.
 - 4. Review structural loading limitations.
 - 5. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
- F. All equipment shall be provided new, in unused condition, and of the latest manufacturer's model, unless otherwise specified. If the model specifications vary significantly from the item specified, provide equipment submittal for review and approval for installation.

1.6 CODES AND REGULATIONS

- A. All work shall be in strict conformance with all federal, state, local codes, laws, regulations, and rules of agencies/authorities having jurisdiction.
- B. All work under this section shall comply, as applicable, with:
 - 1. National Fire Protection Association Standard(NFPA), including NFPA 17, NFPA 17A, NFPA 54, NFPA 70, NFPA 96.

2. National Sanitation Foundation (NSF), including NSF-7. Provide equipment that bears NSF Certification Mark.
3. Provide electric and fuel-burning equipment and components that are evaluated by a Nationally Recognized Testing Laboratory (NRTL, ie: UL or ETL) for fire, electric shock, and casualty hazards according to applicable safety standards, and that are certified for compliance and labeled for intended use.
4. Baking Industry Sanitation Standards Committee (BISSC). Provide bakery equipment that complies with current ANSI/BISSC/Z50.2. standard section 3.0 General Principles of Design
5. National Electric Manufacturer's Association (NEMA)
6. American Society of Mechanical Engineers must carry the (ASME) stamp. Fabricate and label steam-generating and closed steam-heating equipment to comply with ASME Boiler and Pressure Vessel Code.
7. American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). Provide mechanical refrigeration systems complying with the American Society of Heating, Refrigerating and Air-Conditioning Engineers' ASHRAE 15, "Safety Code for Mechanical Refrigeration".
8. Occupational Safety and Health Act (OSHA) Standards.
9. American Disability Act (ADA) Standards.
10. California Building Code (CBC).
11. California Fire Code (CFC) and California State Fire Marshal (CSFM).
12. California Electrical Code (CEC)
13. American Gas Association (AGA)
14. American National Standards Institute (ANSI). Comply with applicable ANSI standards for electric-powered and gas-burning appliances; for piping to compressed-gas cylinders; and for plumbing fittings, including vacuum breakers and air gaps, to prevent siphonage in water piping.
15. Sheet Metal and Air Conditioning Contractors National Association (SMACNA).
 - a. Where applicable, fabricate food service equipment to comply with SMACNA "Kitchen Equipment Fabrication Guidelines", unless otherwise indicated.
 - b. Seismic Restraints: When applicable, provide seismic restraints for food service equipment according to the Sheet Metal and Air Conditioning Contractors National Association's (SMACNA) "Kitchen Equipment Fabrication Guidelines," appendix 1, "Guidelines for Seismic Restraints of Kitchen Equipment," unless otherwise indicated.
16. Listing and Labeling: Provide electrically operated equipment or components specified in this Section that are listed and labeled.
 - a. The Terms "Listed" and "Labeled": As defined in the National Electrical Code, Article 100.
 - b. Listing and Labeling Agency Qualifications: A "Nationally Recognized Testing Laboratory" (NRTL) as defined in OSHA Regulation 1910.7.
17. Accessibility
 - a. Food Service Equipment: Where provided, check-out aisles, sales counters, service counters, food service lines, queues, and waiting lines shall comply with CBC Sections 11B-227 and 11B-904. The top of tray slides shall be 28" minimum and 34" maximum above the finish floor or ground. Space and elements within food service employee work areas shall meet the requirements of CBC Section 11B-203.9 only.
 - b. Lockers: CBC Section 11B-225.2.1. At least 5%, but no fewer than one of each type of lockers shall be ADA accessible and comply with CBC Section 11B-811.
 - c. Provide U-Shaped pulls or touch latches at all accessible casework. CBC Section 11B-811.4

- d. Walk-in coolers and freezers shall have entry and exit door hardware that complies with all of the requirements of CBC Section 11B-404.2.8.1 and maneuvering clearances at the exterior side per CBC Section 11B-404.2.4 and 11B-404.2.4.4. Doors shall be flush (in-fitting) type, self-closing, 36-inches by a minimum of 80-inches high.
 - e. Walk-in cooler and freezer doors shall be mounted with three cam-lift hinges and posi-seal (hydraulic, not spring) adjustable door closers. Door hardware shall be chrome plated. Mounting height of latching hardware shall be 34 to 40 inches above finish floor. All hardware shall meet the requirements of CBC 11B-404.2.7 and 11B-309.4.
 - f. Walk-in coolers and freezers shall have level maneuvering clearances at the exterior side (CBC 11B-404.2.4) and accessible entry and exit door hardware (CBC 11B-404.2.7).
- C. The Kitchen Equipment Contractor shall certify that all work and materials comply with Federal, State and Local laws, ordinances, and regulations, and is confirmed by the local inspector having jurisdiction.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver Food Service Equipment in containers designed to protect the equipment and finish until installation. Make arrangements to receive equipment, when required, at the project site or to hold in a warehouse until delivery can be made to the job site.
- B. Storage: Store Food Service Equipment in the original containers and in a location to provide adequate protection to equipment while not interfering with other construction operations.
- C. Handling: Handle Food Service Equipment carefully to avoid damage to components, enclosures, and finish. Do not install damaged Food Service Equipment. Replace and return damaged components to the Manufacturer.
- D. Owner Furnished Equipment: The General Contractor will receive, accept and store the Owner Furnished Equipment until installation. The General Contractor shall assume responsibility for the equipment and its condition upon receipt of the equipment by him or his representative.

1.8 PROJECT CONDITIONS

- A. Field Measurements: Verify dimensions of food service equipment installation areas by field measurements before equipment fabrication and indicate measurements on Shop Drawings and Coordination Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
 - 1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish required dimensions and proceed with fabricating equipment without field measurements. Coordinate construction to ensure actual dimensions correspond to established dimensions.

1.9 COORDINATION

- A. Coordinate equipment layout and installation with other work, including light fixtures, HVAC equipment, and fire-suppression system components.
- B. Coordinate location and requirements of service-utility connections.
- C. Coordinate size, location, and requirements of concrete bases, positive slopes to drains, floor depressions, and insulated floors. Concrete, reinforcement, and formwork requirements are specified in Division 3 Section "Cast-in-Place Concrete."

- D. Coordinate installation of roof curbs, equipment supports, and roof penetrations.

1.10 WARRANTY

- A. General Warranty: The special warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents. Warranty period: minimum 1 year from date of completion. Refer to Division 1 Section 01 78 00 / 1.05 "Warranties and Guarantees" for warranty information.
- B. Refrigeration Compressor Warranty: 5 years from date of completion. Submit a written warranty signed by manufacturer agreeing to repair or replace compressors that fail in materials or workmanship within the specified warranty period.
- C. Not included in warranty:
 - 1. Breakage – Due to negligence
 - 2. Faulty operation

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Stainless-Steel Sheet, Strip, Plate, and Flat Bar. ASTM A 666, Type 304, stretcher leveled, and in finish specified in "Stainless Steel Finishes" Article.
- B. Stainless-Steel Tube: ASTM A 554, Grade MT-304, and in finish specified in "Stainless-Steel Finishes" Article.
- C. Zinc-Coated Steel Sheet: ASTM A 653, G115 (ASTM A 653M, Z350) coating designation; commercial quality; cold rolled; stretcher leveled; and chemically treated.
- D. Zinc-Coated Steel Shapes: ASTM A 36 (ASTM A 36M), zinc-coated according to ASTM A 123 requirements.
- E. Plastic Laminate: Complying with NEMA LD 3 and NSF 35 requirements; NSF certified for end-use application indicated; 0.050 inch (1.27 mm) thick for horizontal and vertical surfaces and 0.042 inch (1.07 mm) thick for post-formed surfaces; smooth texture; and easily cleanable.
 - 1. Color: As selected by Architect from manufacturer's full range of colors.
- F. Plywood and Lumber: Provide plywood and lumber as specified in Division 6 Section "Interior Architectural Woodwork."
- G. Sealant: ASTM C 920; Type S, Grade NS, Class 25, Use NT. Provide elastomeric sealant NSF certified for end-use application indicated. Provide sealant that, when cured and washed, meets requirements of Food and Drug Administration's 21 CFR, Section 177.2600 for use in areas that come in contact with food.
 - 1. Color: As selected by Architect from manufacturer's full range of colors.
 - 2. Backer Rod: Closed-cell polyethylene, in diameter larger than joint width.

- H. Tempered Glass: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated surfaces), Type I (transparent), Class 1 (clear), Quality q3 (glazing select). Provide products complying with ANSI Z97.1, manufactured by horizontal (roller-hearth) process, and 6 mm thick, unless otherwise indicated. Provide exposed safety edges, if any, seamed before tempering.
- I. Plastic: Except for plastic laminate, provide plastic materials and components complying with NSF 51.
- J. Sound Dampening: NSF-certified, nonabsorbent, hard-drying, sound-deadening coating. Provide coating compounded for permanent adhesion to metal in 1/8-inch (3-mm) thickness that does not chip, flake, or blister.
- K. Gaskets: NSF certified for end-use application indicated; of resilient rubber, neoprene, or PVC that is nontoxic, stable, odorless, nonabsorbent, and unaffected by exposure to foods and cleaning compounds.

2.2 ACCESSORIES

- A. Cabinet Hardware: Provide NSF-certified, stainless-steel hardware for equipment items as indicated.
- B. Casters: NSF-certified, standard-duty, stainless-steel, swivel stem casters with 5-inch- (125-mm-) diameter wheels, polyurethane tires with 1-inch (25-mm) tread width, and 200-lb (90-kg) load capacity per caster. Provide brakes on 2 casters per unit.

2.3 FABRICATION, GENERAL

- A. Fabricate food service equipment according to NSF 2 requirements. Factory assemble equipment to greatest extent possible.
- B. Materials:
 1. All wood to be thoroughly seasoned and kiln dried prior to being used for fabrication of custom casework. All wood to be free from knots, pitchy seams, or other imperfections. All exposed wood to be grade A pine, unless otherwise noted.
 2. All plywood to be thoroughly seasoned and kiln dried prior to being used. All plywood to be free from knots, pitchy seams, and other imperfections. All plywood to be glued with water resistant resin. Particle board and MDF may not be substituted for plywood panels.
 3. All wood to have less than 12% moisture content and be a species listed by the national hardwood association.
 4. Plastic laminates shall be 1/16" thick, general purpose grade GP-50 as manufactured by Wilson Art or equal. Patterns, textures, and colors as specified under individual items. Exposed vertical surfaces, semi-exposed and cabinet liners shall be CL-20. Countertops, backsplashes and edges shall be grade GP-50 on exposed and grade BK-20 on underside of tops. Sides and edges of shelving shall be grade 50. Adhesive shall be waterproof and low VOC.
 5. Hardware that is furnished and installed shall be FORMS + SURFACES Mesa model# HC423 and CompX National Timberline door locks unless specified otherwise. The hardware shall be provided with the necessary mechanisms for locking. All locks shall be furnished with two (2) keys.

6. Workmanship and Fabrication – The following requirements shall govern the construction of custom built fixtures except where otherwise noted under individual item specifications. All work shall conform to custom grade as defined in the latest edition of AWI quality standards unless detailed as a higher grade. The approved fabricator must have demonstrated quality and on time work, and must have completed work similar in kind and scope.
 7. Provide U-Shaped pulls or touch latches at all accessible casework. CBC Section 11B-811.4.
- C. Plastic-Laminate and Wood Casework: Fabricate according to requirements specified in Division 6 Section 06 41 00 "Architectural Wood Casework."
 - D. Welding: Use welding rod of same composition as metal being welded. Use methods that minimize distortion and develop strength and corrosion resistance of base metal. Provide ductile welds free of mechanical imperfections such as gas holes, pits, or cracks.
 1. Welded Butt Joints: Provide full-penetration welds for full-joint length. Make joints flat, continuous, and homogenous with sheet metal without relying on straps under seams, filling in with solder, or spot welding.
 2. Grind exposed welded joints flush with adjoining material and polish to match adjoining surfaces.
 3. Where fasteners are welded to underside of equipment, finish reverse side of weld smooth and un-depressed.
 4. Coat unexposed stainless-steel welded joints with suitable metallic-based paint to prevent corrosion.
 5. After zinc-coated steel is welded, clean welds and abraded areas and apply SSPC-Paint 20, high-zinc-dust-content, galvanizing repair paint to comply with ASTM A 780.
 - E. Fabricate field-assembled equipment prepared for field-joining methods indicated. For metal butt joints, comply with referenced SMACNA standard, unless otherwise indicated.
 - F. Where stainless steel is joined to a dissimilar metal, use stainless-steel welding material or fastening devices.
 - G. Form metal with break bends that are not flaky, scaly, or cracked in appearance; where breaks mar uniform surface appearance of material, remove marks by grinding, polishing, and finishing.
 - H. Sheared Metal Edges: Finish free of burrs, fins, and irregular projections.
 - I. Provide surfaces in food zone, as defined in NSF 2, free from exposed fasteners.
 - J. Cap exposed fastener threads, including those inside cabinets, with stainless-steel lock washers and stainless-steel cap (acorn) nuts.
 - K. Provide pipe slots on equipment with turned-up edges and sized to accommodate service and utility lines and mechanical connections.
 - L. Provide enclosures, including panels, housings, and skirts, to conceal service lines, operating components, and mechanical and electrical devices including those inside cabinets, unless otherwise indicated.
- 2.4 STAINLESS-STEEL EQUIPMENT: for all parts of custom tables, tops, benches, sinks, cabinets, etc., as drawn or as specified, shall be AICI type 304 (18-8 Austenitic). All gauges called for shall be U.S. Standard Gauges. "S/S" or "S.S.", as shown in the drawings or specifications, shall indicate stainless steel.
- A. Edges and Backsplashes: Provide equipment edges and backsplashes indicated complying with referenced SMACNA standard, unless otherwise indicated.

- B. Apply sound dampening to underside of metal work surfaces, including sinks and similar units. Provide coating with smooth surface and hold coating 1 inch (25 mm) back from open edges for cleaning.
- C. Tables: Fabricate with reinforced tops, legs, and reinforced undershelves or cross bracing to comply with referenced SMACNA standard, unless otherwise indicated, and as follows:
1. Tops: Minimum 0.0781-inch- (1.984-mm-) thick stainless steel, unless otherwise indicated.
 2. Legs: 1-5/8 inch (41.3 mm) OD, minimum 0.0625-inch- (1.588-mm-) thick stainless steel with stainless-steel gusset and adjustable insert bullet-type feet with minimum adjustment of 1 inch (25 mm) up or down without exposing threads, unless otherwise indicated.
 3. Undershelves: Minimum 0.625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.
 4. Top and Underself Reinforcement: Provide minimum 0.0781-inch- (1.984-mm-) thick, stainless-steel reinforcing, unless otherwise indicated.
 5. Cross Bracing: 1-1/4 inch (31.75 mm) OD, minimum 0.0625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.
- D. Base Cabinets: Fabricate with reinforced tops, bases, and reinforced undershelves to comply with referenced SMACNA standard, unless otherwise indicated, and as follows:
1. Bodies: Minimum 0.0500-inch (1.27-mm) thick stainless steel, unless otherwise indicated.
 2. Tops: Minimum 0.0781-inch (1.984-mm) thick stainless steel, unless otherwise indicated.
 3. Bases, as indicated on Drawings and Specifications:
 - a. Legs: 1-5/8 inch (41.3 mm) OD, minimum 0.0625-inch- (1.588-mm-) thick stainless steel with stainless-steel gusset and adjustable insert bullet-type feet with minimum adjustment of 1 inch (25 mm) up or down without exposing threads, unless otherwise indicated.
 - b. Curb: 0.079-inch (2.0066-mm) thick galvanized steel, fully welded and reinforced where necessary
 4. Undershelves: Minimum 0.625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.
 5. Top and Underself Reinforcement: Provide minimum 0.0781-inch- (1.984-mm-) thick, stainless-steel reinforcing, unless otherwise indicated.
- E. Sinks: Fabricate of minimum 0.0781-inch- (1.984-mm-) thick stainless steel with fully welded, 1-piece construction. Construct 2 sides and bottom of sink compartment from 1 stainless-steel sheet with ends welded integral and without overlapping joints or open spaces between compartments. Provide double-wall partitions between compartments with 1/2-inch- (13-mm-) radius rounded tops that are welded integral with sink body. Cove horizontal, vertical, and interior corners with 3/4-inch (19-mm) radius. Pitch and crease sinks to waste for drainage without pooling. Seat wastes in die-stamped depressions without solder, rivets, or welding.
1. Wastes: 2-inch (50-mm) nickel-plated bronze, rotary-handle waste assembly with stainless-steel strainer plate and nickel-plated brass, connected overflow.
 2. Drainboards: Minimum 0.0781-inch- (1.984-mm-) thick stainless steel, pitched to sink at 1/8 inch/12 inches (3 mm/300 mm) of length. Reinforce drainboards with minimum 0.0781-inch- (1.984-mm-) thick stainless steel, unless otherwise indicated.
 3. Legs: 1-5/8 inch (41.3 mm) OD, minimum 0.0625-inch- (1.588-mm-) thick stainless steel with stainless-steel gusset welded to 0.1094-inch- (2.779-mm-) thick, stainless-steel support plate. Provide adjustable insert bullet-type feet with minimum adjustment of 1 inch (25 mm) up or down without exposing threads, unless otherwise indicated.
 4. Drainboard Braces: 1 inch (25 mm) OD, minimum 0.0625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.

5. Cross Bracing: 1-1/4 inch (31.75 mm) OD, minimum 0.0625-inch- (1.588-mm-) thick stainless steel, unless otherwise indicated.
- F. Wall Shelves and Overshelves: Fabricate to comply with referenced SMACNA standard, unless otherwise indicated, and with minimum 0.0625-inch- (1.588-mm-) thick, stainless-steel shelf tops and 0.078 (14 ga.) stainless-steel brackets.
- G. Drawers: Provide lift-out type, 1-piece, die-stamped drawer pan fabricated from 0.050-inch- (1.27-mm-) thick stainless steel with radius corners inside. Support drawer pan with 0.0625-inch- (1.588-mm-) thick, stainless-steel channel frame welded to drawer front. Provide 1-inch- (25-mm) thick, double-wall front fabricated from 0.0625-inch- (1.588-mm-) thick stainless steel and with integral recessed pull. Fill void in drawer front with semi-rigid fiberglass sound dampening. Mount drawers on NSF-certified, full-extension, stainless-steel drawer slides that have minimum 100-lb (45-kg) load capacity per pair, ball-bearing rollers, and positive stop. Mount drawer slides for self-closing on drawer housing as indicated.
- H. Doors: Provide hinged, stainless steel Type 304, 0.0500-inch (1.27-mm) thick doors, unless otherwise indicated.
 1. Double pan construction. Outside pan to have corners welded, ground smooth, and polished. Inner pan to be fitted tightly into outer pan with rigid sound deadening material such as Styrofoam.
 2. Door overall thickness to be 0.75" (19-mm) for non-refrigerated, 1-inch (25-mm) for refrigerated compartments with deep draw insulated interior liner, unless otherwise noted. Provide reinforcing to prevent flexing.
 3. Doors to be flush with mullions and have integral door pulls.
 4. Provide with self-aligning 20-lb pull magnetic catches, aligned with door pulls.

2.5 EXHAUST HOOD FABRICATION

- A. General: Fabricate hoods indicated from minimum 0.050-inch- (1.27-mm-) thick stainless steel, unless otherwise indicated. Comply with NFPA 96 and requirements of authorities having jurisdiction.
 1. Refer to Division 23 Sections for duct, fan, damper, and fire-extinguishing system requirements.
- B. Grease Removal: Provide removable, stainless-steel, grease filters width per drawing. Provide, minimum 0.0781-inch- (1.984-mm-) thick, stainless-steel filter frame and removable collection basins or troughs.
- C. Light Fixtures: Provide NSF-certified fixtures with lamps, vapor-tight sealed lenses, and wiring in stainless-steel conduit on hood exterior.
- D. Exhaust-Duct Collars: Minimum 0.0625-inch (1.588-mm) thick stainless steel.
- E. Stainless Steel Wall Flashing: Unless otherwise noted, provide and install Type 304 20-gauge stainless steel wall metal from top of coved base to bottom of hood, full width of all exhaust hood(s) where a non-combustible wall surface is required.
 1. Sheets to be set vertically with seams running perpendicular to ceiling and floor.
 2. Seams and ends shall be capped with appropriate stainless steel T-Molding or End Molding.
 3. Provide appropriate holes and utility cutouts no greater than 0.25-inch of stub-out size.
 4. Where electrical outlets require a square or rectangular cutout, the opening must be fully covered by the faceplate.
 5. Attached to walls with approved mastic.

- F. Trim: Provide and install Type 304 20-gauge stainless steel hood skirt from top of hood to ceiling and adjacent walls with knuckle type connections (no laps) and access panel(s), where necessary.
 - 1. Install with hem clips and without visible fasteners.

2.6 STAINLESS-STEEL FINISHES

- A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations relative to applying and designating finishes.
 - 1. Remove or blend tool and die marks and stretch lines into finish.
 - 2. Grind and polish surfaces to produce uniform, directional textured, polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.
- B. Concealed Surfaces: No. 2B finish (bright, cold-rolled, unpolished finish).
- C. Exposed Surfaces: No. 4 finish (bright, directional polish).
- D. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
- E. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipment.

2.7 WALK-IN COOLERS/FREEZER

- A. Panel Construction:
 - 1. Panels shall be pre-fabricated, sectionally constructed (4-inches thick for Coolers, 5-inches for Freezers, 5-inches for Ceiling), of tongue and groove design with foamed-in-place gaskets (not glued, stapled, or nailed) on the male side of all interior and exterior panels.
 - 2. Gaskets shall be impervious to stains, greases, oils, and mildew.
 - 3. Corner panels shall be 90-degree angles with coved corners and approximately 12-inches exterior horizontal measurements; interior partition walls shall utilize `T' panels with coved corners.
 - 4. Panels shall be completely filled with rigid 100% foamed-in-place R141b blown, non-CFC urethane between interior and exterior metal `skins' which have been die-formed and gauged for uniformity in size. Slab urethane or wood shall not be acceptable in any panel including doors, walls, floor, and ceiling.
 - 5. Insulation shall have a 95% closed cell structure with an average in-place density of 2.2 lbs. per cubic foot, and compression strength at yield point of 19 lbs. per square inch. Each panel shall have a thermal conductivity (K factor) of .14 BTU/hr/sq ft per degrees Fahrenheit per inch (R28 for Coolers, R36 for Freezers); and an overall coefficient of heat transfer (U factor) of not more than .035.
 - 6. Floor panels: Floor panels shall be die stamped with 3/8-inch radius NSF coved corners. All plane intersections shall be drawn, not cut and welded. Panels shall be fabricated similar to other panels and designed to readily withstand uniformly distributed loads of 700 lbs. per square foot.
- B. Door Construction: Walk-in coolers and freezers shall have entry and exit door hardware that complies with all of the requirements of CBC Section 11B-404.2.8.1 and maneuvering clearances at the exterior side per CBC Section 11B-404.2.4 and 11B-404.2.4.4. Doors shall be flush (in-fitting) type, self-closing, 36-inches by a minimum of 80-inches high.

1. Doors shall be mounted with three cam-lift hinges and posi-seal (hydraulic, not spring) adjustable door closers. Door hardware shall be chrome plated. Mounting height of latching hardware shall be 34 to 40 inches above finish floor. All hardware shall meet the requirements of CBC 11B-404.2.7 and 11B-309.4.
 2. Door latches shall lock and have a safety release to prevent entrapment (one quarter turn of the release handle unlocks the door from the inside).
 3. The freezer door will be provided with a low wattage (5 watts/foot) heater strip and a heated pressure relief port.
 4. Provide a solid-state electronic thermometer, pre-wired vapor proof light fixtures and pilot lights switch on each door section.
 5. The doorjamb, frames, and thresholds shall be made of durable Fiberglass Reinforced Plastic (FRP).
- C. Assembly: Panels shall be assembled by Posi-Locs or equal (no known equal), which shall be foamed-in-place and activated by a hex wrench. Floor panels shall utilize post tension construction within the floor panels. Access ports to locking devices shall be covered by snap caps and shall be located in interior of walk-in.
- D. Finishes: Refer to the Finish Schedule shown on the Foodservice Floor plan.
1. Interior and exterior surfaces (walls, ceiling and closure panels): 0.040 Stucco embossed aluminum or 26-gauge galvanized steel. Ceiling to be White in color.
 2. Exposed exterior 20-gauge Type 304 stainless steel, #4 finish
 3. Unexposed 26-gauge embossed galvanized steel or 0.040 aluminum
 4. Inside Floor: Verify on FS finish schedule and item specification.
- E. Accessories:
1. Provide and install .10-inch corrosion-resistant T-31 aluminum alloy diamond tread kickplates to 42-inches high on interior and exterior doors and door panels.
 2. Provide closure panels to interior ceiling and all adjacent walls, finished with 90-degree angles at the box and the ceiling/wall; no raw edges will be accepted.
 3. Provide vinyl strip curtains.
 4. Provide externally mounted digital thermometer.
 5. Per document drawings, provide 14-inches by 24-inches view port – heated, triple pane.
- F. Insulated Floor Depressions: The FSEC shall provide styrofoam insulation for cooler and freezer floors. Insulation shall be 60 high load extruded polystyrene, 4-inch thick, with R-value, 75°F mean temperature, min 5.0/inch°F ft square h/BTU; Compressive Strength: vertical, 60.0 lb/inch square; Water Absorption maximum 0.1% by volume.
- G. Approvals: Fire hazard classification according to ASTM E-84 (UL723) shall be a flame spread rating of 25 or less with a certifying UL or ETL label attached to every panel showing the meeting of the fire code. Smoke development rating to be 450 or less; Factory Mutual approved; NSF-listed with an approved toxicity rating.
- H. Walk-in coolers and freezers shall have level maneuvering clearances at the exterior side (CBC 11B-404.2.4) and accessible entry and exit door hardware (CBC 11B-404.2.7).

2.8 REMOTE REFRIGERATION SYSTEMS

- A. Furnish and install mechanical refrigeration work as indicated and specified, complete and ready for use. Principal items of work include:

1. Mechanical refrigeration systems, including compressor units, condensers, refrigerant piping, evaporator coils, control valves, compressor racks, weather covers and required miscellaneous items.
 2. Furnishing of motor starters and walk-in refrigerator/freezer thermostats for installation under Electrical Section.
 3. Sleeves, inserts, hangers, supports and other incidental items necessary to complete the work.
 4. Cutting and patching of nonstructural and other incidental items necessary to complete the work on this section.
 5. Testing, charging, adjusting, operational testing and cleaning of equipment. Conduct all tests as required by local inspecting agencies concerned with this project.
- B. Compressors and Condensing Unit: Factory assembled, hermetic compressors with air cooled condensers operating at such speed within recommended range of section and discharge pressures for economical operation and with required BTU rating per hour, sizes and capacities in accordance with specifications. Provide units of same manufacturer and type throughout, new standard cataloged, to operate with refrigerant that meets or exceeds current Department of Energy standards, such as R-290, R-407A, R-407C, or R-448A. Size for operation in 110 degrees Fahrenheit ambient conditions with an 80% duty cycle, capacities selected on 16 hour running time basis.
- C. Walk-In Cooler Defrost Timer Modules: Furnish and install a Grässlin FM1 STuZ (or equivalent) 24-Hour timer module with 15-minute interval captive trippers and Synchronous drive. SPDT switch shall be rated at: 21A Resistive, 2HP @ 250 VAC. To set the starting time and to provide time indication, the unit shall incorporate an authentic clock face. For override, the timer module shall contain a 3-way OFF/AUTO/ON switch. Freezer evaporator coils to include built-in electric defrost powered from remote condenser.
- D. Temperature Monitoring System: Electronic monitoring and remote audible alarm system that warns when temperatures register 10 deg F above or below set temperature.
- E. Refrigerant Piping: Piping shall be furnished with liquid and suction refrigerant lines, condensate drain lines, thermostatic expansion valves, filter-driers, liquid-moisture indicators, heat exchangers, flexible connections, purge valves, crankcase pressure limiting valves and vibration isolators, as required.
1. Copper tubing for refrigerant piping shall conform to ASTM standard specifications, serial designation B88. All piping shall be Type L ACR hard drawn copper, or cleaned and sealed soft drawn Type L copper tubing, continuous without joints, as indicated:
 - a. For exposed areas, accessible furred ceiling spaces, and in walls or excavated trench type installations, use hard-copper tubing. Exposed tubing shall be run in a manner to preclude damage by activities in the area or shall be protected by conduit. Conduit shall have water evacuated and both ends completely sealed.
 - b. For piping run in conduit through inaccessible areas, such as under slab on grade, use soft copper tubing.
 2. All refrigerant piping shall be properly supported by adjustable hangers spaced and adjusted as required.
 3. All suction and refrigerant lines shall be insulated with minimum 0.5 inch ArmaFlex or equal cellular type insulation.
 4. All piping at exterior of building to additionally include pipe jacket insulation to protect insulation and underlying pipe from corrosive atmospheres, physical damage, UV exposure, and water.

5. Metal pipe sleeves shall be provided where piping passes through walls, ceilings or floors. Space around the tubing shall be filled with mastic insulating compound.
6. All penetrations through walk-in cooler or freezer walls shall be fully insulated and sealed to be vapor tight to prevent condensation within any light fixtures, switch boxes, junction boxes, or any other fittings.
7. Refrigerant and drain lines shall be fully sealed and provided with escutcheon plates by the installer.
8. Install a permanent suction line filter in each compressor suction line with pressure fitting ahead of the filter to facilitate checking of the pressure drop through the filter.
9. Refrigeration piping shall be carefully installed to prevent vibration from compressor pulsations.

2.9 FOOD SERVICE EQUIPMENT SCHEDULE

These items are to be provided and installed by Kitchen Equipment Contractor (KEC), unless otherwise noted. All items Not in Kitchen Equipment Contract (NIKEC) are to be provided and installed as part of the general contract agreement.

ITEM NO. 1 - AIR CURTAIN (1 REQ'D)

Mars Air Systems Model LPN242-1UA-OB

(or District Approved equal)

LoPro Series 2 air curtain for 42"W door, sanitation certified to ANSI/NSF 37 standards, unheated, galvanized steel cabinet with Obsidian Black powder coat finish, (1) 1/6 HP motor, 115v/60/1-ph, cETLus

- 1 ea. Model 99-014 Door limit switch, plunger/roller type for indoor applications, single pole double throw, 1 HP max, 250v, 20.0 amps, NEMA 2 (remote mounted)

ITEM NO. 2 - EMPLOYEE LOCKERS (3 REQ'D)

Republic Storage Systems Model 753811

(or District Approved equal)

Locker, five tier, single wide, (5) 12"W x 15"D x 12"H doors, beige powder coated paint finish, 6" legs 2 each ADA compliant lockers.

- 3 lot Provide with sloping tops and 20-gauge closed front and end bases, as required.

ITEM NO. 3 - CORNER GUARDS (2 REQ'D)

Custom Stainless Steel

Custom fabricated 16-gauge stainless steel corner guards at all exposed kitchen wall corners. 2"x2", from top of coved base to bottom of ceiling. Attach to wall without exposed fasteners.

Verify quantity and height.

ITEM NO. 4 - MOP SINK (1 REQ'D)

NIKEC - Furnished and installed by Plumbing Contractor.

ITEM NO. 5 - MOP SINK FAUCET (1 REQ'D)

NIKEC - Furnished and installed by Plumbing Contractor.

ITEM NO. 6 - MOP SINK STORAGE WALL SHELF W/ MOP HOLDER (1 REQ'D)

John Boos Model PB-MSS824

Utility Shelf, wall-mounted, 24"W x 8"D, Stallion Safety Edge front, 1-1/2" riser on sides & rear, includes hooks & (2) mop/broom holder with locking cam, 16/300 stainless steel, KD

ITEM NO. 7 - SPARE NUMBER

ITEM NO. 8 - SPARE NUMBER

ITEM NO. 9 - SPARE NUMBER

ITEM NO. 10 - DUNNAGE RACK (1 REQ'D)

John Boos Model ALJB362012

Dunnage Rack, square bar, 1-tier, 36"W x 20"D x 12"H, weight capacity 1500 lbs., all welded aluminum construction

ITEM NO. 11 - ICE MAKER, CUBE-STYLE (1 REQ'D)

Hoshizaki Model KM-520MAJ

Ice Maker, Cube-Style, 22"W, air-cooled, self-contained condenser, production capacity up to 556 lb/24 hours at 70°/50° (480 lb AHRI certified at 90°/70°), stainless steel finish, crescent cube style, R-404A refrigerant, 115v/60/1-ph, 10.6 amps, NSF, UL, ENERGY STAR®

- 1 ea. Model B-500SF Ice Bin, 30"W, top-hinged front-opening door, 500-lb ice storage capacity, for top-mounted ice maker, stainless steel exterior, painted legs included, protected with H-GUARD Plus Antimicrobial Agent, ETL, ETL-Sanitation
- 1 kit Model HS-2033 Top Kit, 8", ABS
- 1 ea. Model HS-5429 Bin Door Catch
- 1 ea. Model HS-5607 Scoop Holder Kit

ITEM NO. 12 - ICE BIN (1 REQ'D)

Hoshizaki Model B-500SF

Included with Ice Maker (Item #11). See Item #11 for more information.

ITEM NO. 13 - WATER FILTRATION SYSTEM, FOR MULTIPLE APPLICATIONS (1 REQ'D)

3M Purification Model HF160-CLXS

(5626005) 3M™ Water Filtration System, reduces sediment, chloramine (6,300 gallons at 1.67 gpm), chlorine taste and odor (35,000 gallons at 3.5 gpm), cyst, bacteria, and scale

ITEM NO. 14 - DRY STORAGE SHELVING (1 LOT REQ'D)

Cambro

Eight (8) units of 5-tier mobile shelving units, plastic type. Verify size and quantity with field conditions.

- 4 ea. Model EXMU244270V5480 Camshelving® Elements XTRA Mobile Unit, 24"W x 42"L x 70-1/4"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (5) vented reinforced polypropylene shelf plates with Camguard® antimicrobial protection, (4) composite posts, pre-assembled post connectors & wedges, (10) Universal Traverses & (5) bags of 4 dovetails (10 left, 10 right), (4) premium swivel casters with total locking brake, 750 lbs. max capacity, speckled gray, NSF
- 3 ea. Model EXMU244870V5480 Camshelving® Elements XTRA Mobile Unit, 24"W x 48"L x 70-1/4"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (5) vented reinforced polypropylene shelf plates with Camguard® antimicrobial protection, (4) composite posts, pre-assembled post connectors & wedges, (10) Universal Traverses & (5) bags of 4 dovetails (10 left, 10 right), (4) premium swivel casters with total locking brake, 750 lbs. max capacity, speckled gray, NSF
- 1 ea. Model EXMU245470V5480 Camshelving® Elements XTRA Mobile Unit, 24"W x 54"L x 70-1/4"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (5) vented reinforced polypropylene shelf plates with Camguard® antimicrobial protection, (4) composite posts, pre-assembled post connectors & wedges, (10) Universal Traverses & (5) bags of 4 dovetails (10 left, 10 right), (4) premium swivel casters with total locking brake, 750 lbs. max capacity, speckled gray, NSF

ITEM NO. 15 - POT/PAN STORAGE SHELVING (1 LOT REQ'D)

Cambro

Six (6) units of 5-tier mobile shelving units, plastic type. Verify size and quantity with field conditions.

- 1 ea. Model EXMU243670V5480 Camshelving® Elements XTRA Mobile Unit, 24"W x 36"L x 70-1/4"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (5) vented reinforced polypropylene shelf plates with Camguard® antimicrobial protection, (4) composite posts, pre-assembled post connectors & wedges, (10) Universal Traverses & (5) bags of 4 dovetails (10 left, 10 right), (4) premium swivel casters with total locking brake, speckled gray, NSF
- 5 ea. Model EXMU245470V5480 Camshelving® Elements XTRA Mobile Unit, 24"W x 54"L x 70-1/4"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (5) vented reinforced polypropylene shelf plates with Camguard® antimicrobial protection, (4) composite posts, pre-assembled post connectors & wedges, (10) Universal Traverses & (5) bags of 4 dovetails (10 left, 10 right), (4) premium swivel casters with total locking brake, 750 lbs. max capacity, speckled gray, NSF

ITEM NO. 16 - 3-COMPARTMENT SINK (1 REQ'D)

Custom Stainless Steel

Custom fabricated, 14-gauge stainless steel 3-compartment sink with minimum (3) 20" x 28" x 14" deep basins w/ integral drainboard each side sloped to sink, and 8" high backsplash. Rear and cross rail supports to be fully welded to 1-5/8" diameter stainless steel tubular legs with adjustable bullet feet. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.

- 1 lot Furnish with (3) lever waste valve (T&S model #B-3952, or equivalent)
- 3 ea. T&S Brass Model B-3952 Waste Valve, twist handle, 3-1/2" sink opening, 2" drain outlet (replaces B-3913, B-3917)

ITEM NO. 17 - PRE-RINSE FAUCET ASSEMBLY (1 REQ'D)

T&S Brass Model B-0133-B08C

EasyInstall Pre-Rinse Unit, 8" wall mount, adjustable centers, spring action gooseneck, quarter-turn Eterna cartridges with spring checks, lever handles with color coded indexes, EasyInstall 18" riser, 44" flexible stainless steel hose, 0.65 GPM JeTSpray spray valve, 6" adjustable wall bracket, 1/2" NPT, low lead, NSF, cCSAus

- 1 ea. Model B-TEE-EZK EasyInstall Tee Assembly, chrome-plated
- 1 kit Model B-0230-K Installation Kit, (2) 1/2" NPT nipples, lock nuts & washers, (2) short "EII" 1/2" NPT female x male
- 1 ea. Model B-0155-LN Add-on Faucet, less nozzle, for Pre-Rinse Units
- 1 ea. Model 069X Nozzle, swivel, 24" long, double joint, stream regulator outlet, low-lead, chrome-plated brass, NSF (deduct cost of standard nozzle)

ITEM NO. 18 - WALL SHELVES (2 REQ'D)

Custom Stainless Steel

Custom fabricated stainless steel wall shelves, minimum 16-gauge. To include: stainless steel knife brackets, 48" on center maximum. Fabricate per floor plan and detail sheets. Secure to wall with stainless steel pan head screws. Provide shop drawings for approval.

ITEM NO. 19 - POT RACK (1 REQ'D)

Custom Stainless Steel

Custom fabricated stainless steel pot rack with slip-on stainless steel pot hooks, minimum every 6". Constructed of 2" X 1/4" stainless steel flat bar with 14 gauge stainless steel knife brackets, maximum 48" on center. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.

ITEM NO. 20 - WASTE COLLECTOR (1 REQ'D)

Salvajor Model S914

Scrap Collector™, scrapping, pre-flushing & collecting system (widely accepted in areas where disposers are restricted), NEMA 4 HYDROLOGIC® control panel with patented operator sensor, two water saving modes (timed run & auto start/stop), safety line disconnect, LCD readout, salvage basin & silverware trap, scrap basket, 3/4 HP corrosion-resistant pump, pump intake screen, stainless steel construction, UL, CSA, CE, NSF

NOTE: Collector top is available to ship to the fabricator in advance of unit (additional shipping charges will apply). Please provide instructions on order

- 1 ea. 115v/60/1-ph, 11.0 amps
- 1 ea. Model 980104 Mounting bracket for RSS, MSS, MSS-LD, MRSS, MRSS-LD
- 1 ea. Model 992013 Additional scrap basket
- 1 ea. Model 980211 Seismic Flange for Support Leg (3 included)

ITEM NO. 21 - PRE-RINSE FAUCET ASSEMBLY (1 REQ'D)

T&S Brass Model B-0133-B08C

EasyInstall Pre-Rinse Unit, 8" wall mount, adjustable centers, spring action gooseneck, quarter-turn Eterna cartridges with spring checks, lever handles with color coded indexes, EasyInstall 18" riser, 44" flexible stainless steel hose, 0.65 GPM JeTSpray spray valve, 6" adjustable wall bracket, 1/2" NPT, low lead, NSF, cCSAus

- 1 kit Model B-0230-K Installation Kit, (2) 1/2" NPT nipples, lock nuts & washers, (2) short "EII" 1/2" NPT female x male

ITEM NO. 22 - SPARE NUMBER

ITEM NO. 23 - SPARE NUMBER

ITEM NO. 24 - SPARE NUMBER

ITEM NO. 25 - HAND SINK, ADA ACCESSIBLE (1 REQ'D)

IMC/Teddy Model ADA-WS-2S

ADA-WS Handicap Hand Sink, wall mounted, 22"W x 24"D x 31-7/8"H overall size, splash mount holes with 4" centers, includes gooseneck faucet with wrist-action handles, 10"H backsplash, 14"W x 16" front-to-back x 4" deep bowl, non-drip marine edges, soap & towel dispensers, front apron with rear flange & "Z" strip, 16/304 stainless steel construction, ADA Compliant, NSF, Made in USA

NOTE: provide with Hands Free Electronic Faucet (Item #25.1), in lieu of standard faucet.

ITEM NO. 25.1 - HANDS FREE ELECTRONIC FAUCET (1 REQ'D)

T&S Brass Model EC-3105-HG

ChekPoint™ Electronic Faucet, wall mount, 4" centers, rigid gooseneck spout, 2.2 GPM vandal resistant aerator, hydro-generator power supply, AC/DC control module with internal flow control, temperature control mixing valve with integral check valves, chrome-plated brass, flexible stainless steel supply hoses, ADA Compliant

ITEM NO. 26 - TYPE-1 GREASE EXHAUST HOOD (1 REQ'D)

Accurex

Type-1 grease exhaust hood, UL or ETL listed. Includes stainless steel baffle filters. Furnish per floor plan, detail sheets, and specifications. Field verification required. Hang hood and provide stainless steel trim to ceiling with no exposed fasteners and all necessary stainless steel hood hanging materials. Provide shop drawings for approval.

ITEM NO. 27 - EXHAUST FAN FOR EXHAUST HOOD (2 REQ'D)

NIKEC - Furnished and installed by Mechanical Contractor.

ITEM NO. 28 - MAKE-UP AIR SYSTEM (1 REQ'D)
NIKEC - Furnished and installed by Mechanical Contractor.

ITEM NO. 29 - FIRE SUPPRESSION SYSTEM (1 LOT REQ'D)
Ansul Fire Protection Model R-102

Ansul: Wall Mounted Fire Suppression System. Design and installation of the kitchen hood fire suppression system. All equipment to be installed in a professional manner, in compliance with NFPA 96, 17A, UL 300 and local fire code requirements. Provide labor and materials for the complete installation and testing of one (1) lot Ansul automatic fire suppression system to protect the exhaust hoods and appliances based on a plan review, equipment and services to include the following: Tanks in stainless steel enclosures; UL listed grease seal adapters; Pipe, nozzles, fittings, conduit in chrome; Fusible link detectors; Double throw micro-switches (4PDT); Manual Pull Station; Plan drawings and submittal pkg.; Final acceptance test w/Local authorities.

- 1 lot Gas shut-off valve to be furnished by K.E.C., installed by Plumbing Contractor.
- 1 lot Electrical Contractor is responsible for wiring main control panel, all fans per included schematic & shunt trip breaker

ITEM NO. 30 - USER INTERFACE TOUCH CONTROL (1 REQ'D)
Accurex

See Exhaust Hood drawings for more information.

ITEM NO. 31 - REMOTE PULL STATION FOR FIRE SUPPRESSION SYSTEM (1 REQ'D)
Ansul Fire Protection

Furnished and installed by Kitchen Equipment Contractor. Octagonal junction box to be roughed-in by Electrical Contractor.

ITEM NO. 32 - K-TYPE FIRE EXTINGUISHER (1 REQ'D)
Ansul Fire Protection

Furnished by Kitchen Equipment Contractor. Installed by General Contractor.

ITEM NO. 33 - GAS SHUT-OFF VALVE (1 REQ'D)
Ansul Fire Protection

Furnished by Kitchen Equipment Contractor. Installed by Plumbing and Electrical Contractors.

ITEM NO. 34 - WALL METAL/FLASHING (1 LOT REQ'D)
Custom Stainless Steel

Custom fabricated 20-gauge stainless steel wall metal. From top of cove base to bottom of hood. Install with hem clips and without visible fasteners. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.

- 1 lot Include custom fabricated, minimum 20 gauge, stainless steel hood skirt from top of hood to ceiling with knuckle type connections (no laps) and access panel, where necessary. Install with hem clips and without visible fasteners.

ITEM NO. 35 - QUICK GAS DISCONNECT (1 LOT REQ'D)
T&S Brass

Verify size and quantity with equipment.

- 3 kit Model HG-4C-48K Safe-T-Link Gas Connector Kit, 1/2" connection, 48" hose, stainless steel braiding with extruded coating, (1) Quick-Disconnect, (1) street "EL", ball valve, restraining cable adjustable for 3'to 5', 70,000 BTU / hr minimum flow capacity.
- 4 kit Model HG-4D-48K Safe-T-Link Gas Connector Kit, 3/4" connection, 48" hose, stainless steel braiding with extruded coating, (1) Quick-Disconnect, (1) street "EL", ball valve, restraining cable adjustable for 3'to 5', 180,000 BTU / hr minimum flow capacity

ITEM NO. 36 - SPARE NUMBER

ITEM NO. 37 - SPARE NUMBER

ITEM NO. 38 - SPARE NUMBER

ITEM NO. 39 - KETTLE, GAS, TILTING (1 REQ'D)

Groen Model DH-40A

Tilting Kettle, gas, 40-gallon capacity, crank tilt, 2/3 jacket, IPX6 water rated electronic Advanced controls with digital display, 1 minute to 10 hour timer, low (2) and high (7) preset intensities with manual capability, 316 stainless steel liner, floor mounted control console supports, stainless steel construction, bullet feet, electronic ignition, 50 PSI, 0 - 2000' elevation, 100,000 BTU, cCSAus, NSF, Made in USA

- 1 ea. Natural gas
- 1 ea. Model ELEVO-2000 For elevation between 0 and 2000 (When order is placed, all equipment with elevation specified will be assigned a different Part# by the factory)
- 1 ea. 115v/60/1-ph, 5.0 amps, std.
- 1 ea. 2" Tangent draw-off (TDO)
- 1 ea. Model 104278 Brush Set, 2", includes drain valve brush & paddle, for 2" TDO
- 1 ea. Model 150536 Lip Strainer, for 40 gallon kettle (DEE/4-40)
- 1 ea. Etch Marks, 4 gallon increments
- 1 ea. Model 174479 Tri Basket, for 40, 60, 80 & 100 gallon kettles (excluding tilting shorty)
- 1 ea. Model 159143 Hinged Cover Kit (no. 41), for 40 gallon tilting kettle, factory installed
- 1 ea. Model 122891 Pan Carrier, for tilting floor model kettles (not available on DH-20 & DEE-20)
- 1 ea. Model Z091877 Faucet, double pantry, with 11" rear swing spout & 5" riser
- 1 ea. Model 153193 Flanged feet, set of 4
- 1 ea. Model 159102 Drain cup & 8' hose assembly for TDO

ITEM NO. 40 - FLOOR TROUGH (1 REQ'D)

Custom Stainless Steel

Custom fabricated stainless steel floor trough with removable grates. See detail sheets for type and design. Fabricate per floor plan and detail sheets. Verify size and location requirements with equipment manufacturer's specification sheets. Coordinate location to be installed with Plumbing and General Contractors. Provide shop drawings for approval.

ITEM NO. 41A - CONVECTION STEAMER, GAS, BOILERLESS, DOUBLE-STACKED (1 REQ'D)

AccuTemp Model N61201E060 DBL

Two Connected Evolution™ Boilerless, Convection Steamers featuring Steam Vector Technology, natural gas, holds (6) 12" x 20" x 2-1/2" deep pans each compartment, Digital Controls, water & drain connection required, warranty NOT voided by water quality, NO water filtration required, 50,000BTU, 120/60/1ph, (2) 5' cords & NEMA 5-15P, cULus, UL EPH Classified, Made in USA, ENERGY STAR® (Includes stand in configuration of choice)

- 1 ea. Lifetime service and support guarantee
- 1 ea. Door hinged on right standard
- 1 ea. SNH-21-01 - Support Stand, for double stacked Steam'N'Hold or Evolution units, Ergo-low mounting height: 8-7/8" lowest unit height, stainless steel, with 5" casters in lieu of standard

ITEM NO. 41B - STEAMER (1 REQ'D)

AccuTemp

Included with Double-Stacked Steamer (Item #41A). See Item #41A for more information.

ITEM NO. 42 - WATER FILTRATION SYSTEM, FOR STEAM EQUIPMENT (1 REQ'D)
3M Purification Model SF165
(5624601) 3M™ Water Filtration Products Water Filtration System, with ScaleGARD™ HT scale control, 3 micron, 125 psi, 3.34 gpm flow rate, 35,000 gallons capacity, reduces sediment, chlorine taste & odor, for high and low-temperature applications, includes: (1) pressure gauge, (1) inlet shut-off valve and (1) outlet check valve, mounting bracket, (1) filter cartridge, & scale-feeding system, 3/4" NPT connections, NSF certified

ITEM NO. 42.1 - BACKFLOW PREVENTER (1 REQ'D)
NIKEC - Furnished and installed by Plumbing Contractor.

ITEM NO. 43A - CONVECTION OVEN, GAS, DOUBLE-DECK (2 REQ'D)
Montague Company Model 2-115A
Vectaire Convection Oven, gas, double-deck, bakery depth, thermostatic controls, single speed fan, vertical opening doors with windows, stainless steel top, front & sides, 3" high flue deflector with stainless steel front trim, 6" adjustable legs, 115,000 BTU per deck, NSF, CSA Star

- 2 ea. Natural gas
- 2 ea. (2) 120v/60/1ph, 3/4 hp, cord with 3-prong plug
- 2 ea. 2-Speed fan motor, per deck
- 2 ea. Casters with 5" wheel 6" OA (set of 4)

ITEM NO. 43B - CONVECTION OVEN (2 REQ'D)
Montague Company
Included with Double-Stacked Convection Ovens (Item #43A). See Item #43A for more information.

ITEM NO. 44 - BUN / SHEET PAN RACK (6 REQ'D)
GSW USA Model AAR-2022W
Bun Pan Rack, open sides, (20) 18" x 26" pan capacity, 2-1/2" spacing, welded angle slides, 6" casters (2) with brake, all welded 1" aluminum tubing, ETL

- 6 ea. Model AAR-20CC Bun Pan Rack Cover, fits: 21"L x 26"W x 70"H pan racks, (2) zipper, clear plastic

ITEM NO. 45 - SPARE NUMBER

ITEM NO. 46 - SPARE NUMBER

ITEM NO. 47 - SPARE NUMBER

ITEM NO. 48 - MOBILE HEATED CABINET (2 REQ'D)
Cres Cor Model H137SUA12DSD
Cabinet, Mobile Heated, insulated, top-mount heater assembly, lockable slide bolt door latches, (12) sets extruded aluminum transport angles, slides on 4-1/2" centers adjustable 1-1/2" centers, side impact panels, field reversible dutch doors, solid state electronic control, LED digital display, full perimeter bumper, rear push/pull handle, dry erase panel, (4) heavy duty 6" modulus casters (2) braked, stainless steel construction, NSF, cCSAus, ENERGY STAR®

- 2 ea. 120v/60/1-ph, 1.5 kW, 12.0 amp, 10 ft power cord, NEMA 5-15P, standard
- 2 ea. Right-hand door swing (top & bottom doors), standard
- 2 ea. Cord Wrap for insulated cabinet, standard

ITEM NO. 49 - PASS-THRU REFRIGERATOR (1 REQ'D)
Continental Refrigerator Model D2RNSSTP
Designer Line Refrigerator, pass-thru, two-section, self-contained refrigeration, stainless steel exterior & interior, standard depth cabinet, full-height stainless steel doors, cylinder locks, electronic control with digital display, hi-low alarm, 6" stainless steel legs, R290 hydrocarbon refrigerant, 1/3 HP, ENERGY STAR®

- 1 ea. 115v/60/1-ph, 6.9 amps, cord, NEMA 5-15P, standard
- 1 ea. Left door hinged on left & right door hinged on right, standard(control side)
- 1 ea. Left door hinged on left & right door hinged on right, standard (rear)
- 1 ea. 6" stainless steel adj. legs standard
- 1 ea. Model 50-P008A Pan Slide Assembly, full section for 18 x 26 or (2) 18 x 14 pans on 3" centers, bottom support, stainless steel angle (holds 16 per full section)

NOTE: Please specify location of pan slides

ITEM NO. 50 - PASS-THRU HEATED CABINET (1 REQ'D)

Continental Refrigerator Model DL2W-SS-PT

Designer Line Heated Cabinet, pass-thru, two-section, 50 cu.ft. capacity, (3) shelves per section, stainless steel exterior & interior, standard depth cabinet, narrow full-height doors, electronic control with digital display, hi-low alarm, cETLus, NSF, Made in USA, cETLus, NSF

- 1 ea. 208-230v/60/1-ph, 10.6 amps, 2.25 kW, cord & plug supplied by others
- 1 ea. Left Door hinged on left & right door hinged on right, (control side) standard
- 1 ea. Left Door hinged on left & right door hinged on right, (rear) standard
- 1 ea. 6" stainless steel adj. legs, standard
- 1 ea. Model 50-P008A Pan Slide Assembly, full section for 18 x 26 or (2) 18 x 14 pans on 3" centers, bottom support, stainless steel angle (holds 16 per full section)

NOTE: Please specify location of pan slides

ITEM NO. 51 - MOBILE WORK TABLE (2 REQ'D)

Custom Stainless Steel

Custom fabricated stainless steel work table on heavy-duty NSF approved locking casters with fixed under-shelf welded to 1-5/8" stainless steel tubular legs with fully welded cross bracing, as required. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.

ITEM NO. 52 - PREP TABLE (1 REQ'D)

Custom Stainless Steel

Custom fabricated stainless steel prep table. To include: 6" stainless steel backsplash along all wall edges and stainless steel fixed under-shelf welded to 1-5/8" stainless steel tubular legs with fully welded cross bracing and adjustable bullet feet. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.

ITEM NO. 53 - DOUBLE OVERSHELF (1 REQ'D)

Custom Stainless Steel

Custom fabricated 16-gauge stainless steel double over-shelf. Reinforce full length with stainless steel channels. Swedge countertop and fully weld and polish connections, as required. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.

ITEM NO. 54 - PREP TABLE W/ INTEGRAL HAND SINK (1 REQ'D)

Custom Stainless Steel

Custom fabricated stainless steel prep table. To include: 6" stainless steel backsplash along all wall edges and stainless steel fixed under-shelf welded to 1-5/8" stainless steel tubular legs with fully welded cross bracing and adjustable bullet feet. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.

- 1 ea. Integral 10" x 14" x 6" deep hand sink basin with 6" splash guards, as required.

ITEM NO. 55 - HAND SINK, INTEGRAL (1 REQ'D)

Custom Stainless Steel

Integral component of Prep Table (Item #54).

ITEM NO. 55.1 - HANDS FREE ELECTRONIC FAUCET (1 REQ'D)

T&S Brass Model EC-3104-HG

ChekPoint™ Electronic Faucet, with hydro-generator power supply, deck mount, 4" centers, cast spout 2.2 GPM vandal resistant aerator, AC/DC control module with internal flow control, mixing valve with integral check valves, flexible stainless supply hoses, low lead, ADA Compliant

ITEM NO. 55.2 - SOAP & TOWEL DISPENSERS (1 REQ'D)

Bobrick Washroom Model B-822

Counter-Mounted Soap Dispenser. Vandal-resistant locking cover and free-turning spout. Body and shank are high-impact-resistant ABS plastic with a shatter-resistant polyethylene container., 34-fl. oz. (1.0-L) capacity, 4" (100mm) spout length, 4" (100mm) mounting thickness, bright-polished spout.

- 1 ea. Model B-2621 Surface-Mounted Paper Towel Dispenser. Satin-finish stainless steel. Dispenses 200 C-fold or 275 multifold towels. Door has knob-latch. Hemmed towel tray opening. Unit 10 3/4" W, 7 1/8" H, 4" D (275 x 180 x 100mm).

ITEM NO. 56 - SPARE NUMBER

ITEM NO. 57 - SPARE NUMBER

ITEM NO. 58 - SPARE NUMBER

ITEM NO. 59 - PREP TABLE W/ INTEGRAL DOUBLE PREP SINKS (1 REQ'D)

Custom Stainless Steel

Custom fabricated stainless steel prep table. To include: 6" stainless steel backsplash along all wall edges and stainless steel fixed under-shelf welded to 1-5/8" stainless steel tubular legs with fully welded cross bracing and adjustable bullet feet. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.

- 2 ea. Integral 18" x 20" x minimum 12" deep prep sink basins w/ lever waste support brackets.
- 2 lot Furnish with (1) lever waste valve (T&S Brass #B-3952, or equivalent) with handle support brackets welded to bottom of sink, per basin.
- 2 ea. T&S Brass Model B-3952 Waste Valve, twist handle, 3-1/2" sink opening, 2" drain outlet

ITEM NO. 60 - FAUCET (1 REQ'D)

T&S Brass Model B-0221-CC-CR

Mixing Faucet, deck mount, 8" centers, 12" swing nozzle, stream regulator outlet, quarter-turn Cerama cartridges with check valves, lever handles, 1/2" NPT "CC" male inlets, low lead, ADA Compliant

ITEM NO. 61 - DOUBLE OVERSHELF (1 REQ'D)

Custom Stainless Steel

Custom fabricated 16-gauge stainless steel double over-shelf. Reinforce full length with stainless steel channels. Swedge countertop and fully weld and polish connections, as required. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.

ITEM NO. 62 - PREP TABLE W/ INTEGRAL DOUBLE PREP SINKS (1 REQ'D)

Custom Stainless Steel

Custom fabricated stainless steel prep table. To include: 6" stainless steel backsplash along all wall edges and stainless steel fixed under-shelf welded to 1-5/8" stainless steel tubular legs with fully welded cross bracing and adjustable bullet feet. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.

- 2 ea. Integral 18" x 20" x minimum 12" deep prep sink basins w/ lever waste support brackets.

- 2 lot Furnish with (1) lever waste valve (T&S Brass #B-3952, or equivalent) with handle support brackets welded to bottom of sink, per basin.
- 2 ea. T&S Brass Model B-3952 Waste Valve, twist handle, 3-1/2" sink opening, 2" drain outlet

ITEM NO. 63 - FAUCET (1 REQ'D)

T&S Brass Model B-0221-CC-CR

Mixing Faucet, deck mount, 8" centers, 12" swing nozzle, stream regulator outlet, quarter-turn Cerama cartridges with check valves, lever handles, 1/2" NPT "CC" male inlets, low lead, ADA Compliant

ITEM NO. 64 - SPARE NUMBER

ITEM NO. 65 - SPARE NUMBER

ITEM NO. 66 - SPARE NUMBER

ITEM NO. 67 - WALK-IN FREEZER W/ LIGHT (1 REQ'D)

ThermalRite

Walk-in cooler/freezer with light, U.L. pre-fabricated insulated wall panels with NSF approved finish.

- 1 lot PANEL CONSTRUCTION: Polyurethane foam insulation packed to a 2.3-lb. density with a high-density urethane perimeter. Interior cam locks to all wall, ceiling, and floor panels. Interior and exterior joints sealed by NSF approved gasket.
PANEL THICKNESS: Cooler = 4" thick walls, 5" thick ceiling; Freezer = 5" thick walls and ceiling panels
- 1 lot PANEL FINISHES: Interior Ceiling = Stucco Embossed Aluminum, .040; Interior Wall = Stucco Embossed aluminum, .040; Exposed Exterior = Stainless Steel, Type-304, 20-gauge, #4 Finish; Unexposed Exterior = Stucco Embossed Galvanized Steel, 26-gauge; Flooring (insulated slab)= provide with mass insulation, breaker strip, and Visqueen vapor barrier; concrete and wearing surface by others.
- 1 lot PANEL ACCESSORIES: LED light fixtures. Matching vertical trim. Matching cove base. Matching closure panel.
- 1 lot DOOR FEATURES: Flush fitting, self-closing door with replaceable magnetic gasket and adjustable dual wiper blades. Hinges and locking handle with inside safety release. Hydraulic door closure, pre-wired exterior light switch, and one thermometer per compartment. Heated door opening and heated pressure relief vent for freezer only. Door quantity as shown on floor plan.
- 1 lot DOOR ACCESSORIES: Aluminum tread plate kick plates interior and exterior. Heated Vision Panel(s). Plastic vinyl strip curtain.
- 1 lot ALARM/CONTROLS: Provide with Modularm #75LC temp alarm/light control and Modularm #IP-1 panic alarm/light control.
- 1 lot Anchoring Provisions
- 1 lot Structural Engineering & Stamped Drawings
- 1 lot Parts & Labor Warranty on Box and Accessories

ITEM NO. 68 - EVAPORATOR COIL, WALK-IN FREEZER (1 REQ'D)

Custom Refrigeration

Evaporator coil, serving Walk-In Freezer (Item #67). Pre-built air defrost evaporator with all necessary controls. Freezer Evaporator Coils To Include: built-in electric defrost, powered from remote condenser.

- 1 ea. KE2 Therm Model 20178 Provide with KE2 Evaporator Efficiency demand defrost system, (1) required per evaporator.

ITEM NO. 69 - WALK-IN COOLER W/ LIGHTS (1 REQ'D)

ThermalRite

Included with Walk-In Freezer (Item #67). See Item #67 and drawings for more information.

ITEM NO. 70 - EVAPORATOR COIL, WALK-IN COOLER (1 REQ'D)

Custom Refrigeration

Evaporator coil, serving Walk-In Cooler (Item #69). Pre-built air defrost evaporator with all necessary controls. Cooler Evaporator Coils To include: Grasslin FM1-STuZ (or equivalent) timer module with interval captive trippers and Quartz drive with 3-way switch.

- 1 ea. KE2 Therm Model 20178 Provide with KE2 Evaporator Efficiency demand defrost system, (1) required per evaporator.

ITEM NO. 71 - REMOTE CONDENSER, WALK-IN FREEZER (1 REQ'D)

Custom Refrigeration

Remote condenser, serving Walk-In Freezer (Item #67). Pre-built system to operate with refrigerant that meets or exceeds current Department of Energy Standards (such as: R-290, R-407A, R-407C, or R-448A) with all necessary controls. Outdoor, hermetic, air-cooled, coated condenser with stainless steel enclosure. Matching air defrost evaporator. Size condensers and evaporators for -10 degrees Fahrenheit holding temperature in freezer. Allow for operation in 100 degree ambient conditions with an 80% duty cycle.

ITEM NO. 72 - DRY STORAGE SHELVING (1 LOT REQ'D)

Cambro

Twenty-Three (23) units of 4-tier mobile shelving units, plastic type. Verify size and quantity with field conditions.

- 1 ea. Model EXMU243670V4480 Camshelving® Elements XTRA Mobile Unit, 24"W x 36"L x 70-1/4"H, 4-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented reinforced polypropylene shelf plates with Camguard® antimicrobial protection, (4) composite posts, pre-assembled post connectors & wedges, (8) Universal Traverses & (4) bags of 4 dovetails (8 left, 8 right), (4) premium swivel casters with total locking brake, speckled gray, NSF
- 12 ea. Model EXMU244270V4480 Camshelving® Elements XTRA Mobile Unit, 24"W x 42"L x 70-1/4"H, 4-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented reinforced polypropylene shelf plates with Camguard® antimicrobial protection, (4) composite posts, pre-assembled post connectors & wedges, (8) Universal Traverses & (4) bags of 4 dovetails (8 left, 8 right), (4) premium swivel casters with total locking brake, 750 lbs. max capacity, speckled gray, NSF
- 10 ea. Model EXMU244870V4480 Camshelving® Elements XTRA Mobile Unit, 24"W x 48"L x 70-1/4"H, 4-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented reinforced polypropylene shelf plates with Camguard® antimicrobial protection, (4) composite posts, pre-assembled post connectors & wedges, (8) Universal Traverses & (4) bags of 4 dovetails (8 left, 8 right), (4) premium swivel casters with total locking brake, 750 lbs. max capacity, speckled gray, NSF

ITEM NO. 73 - ANTHONY REACH-IN DOORS (2 REQ'D)

ThermalRite

Anthony reach-in doors with lights. Included with Walk-In Cooler (Item #69). See item #69 and drawings for more information.

ITEM NO. 74 - REMOTE CONDENSER, WALK-IN COOLER (1 REQ'D)

Custom Refrigeration

Remote condenser, serving Walk-In Cooler (Item #69). Pre-built system to operate with refrigerant that meets or exceeds current Department of Energy Standards (such as: R-290, R-407A, R-407C, or R-448A) with all necessary controls. Outdoor, hermetic, air-cooled, coated condenser with stainless steel enclosure. Matching air defrost evaporator. Size condensers and evaporators for 35 degrees Fahrenheit holding temperature in cooler. Allow for operation in 100 degree ambient conditions with an 80% duty cycle.

ITEM NO. 75 - SPARE NUMBER

ITEM NO. 76 - SPARE NUMBER

ITEM NO. 77 - HOT FOOD SERVING COUNTER / TABLE (4 REQ'D)

Vollrath Model 37057

4-Series Signature Server® Bain Marie Hot Food Station, 60"W x 28"D x 34"H, 4-Pan size, modular, wet or dry operation, single dial thermostat control, 625 watt heating element, 18/300 series stainless steel one-piece top, 18/400 series stainless steel enclosed base, drain hose on operator side, 4" swivel casters with brakes, includes cord & plug, cULus, Made in USA

4 ea. 208v/60/1-ph

4 ea. Model 36693 All Stainless finish for 4-Series Signature Server® with stainless steel countertops Corner Station & 46"W models

4 ea. Model N36302 NSF2 (2011) Classic Economy Buffet Breath Guard, for 60"W 4-Series Signature Server®, stainless steel uprights, clear acrylic with clear acrylic end panels

4 ea. Model 9879204 Upgrade to 14 gauge stainless steel work surface for, (4) well 60"W 4-Series Signature Server® Hot Food Base

4 ea. Model NO LIGHT OR HEAT No lights or heating, standard, no charge

4 ea. Model 375231450-2-O 4-Series Signature Server® V-rib Tray Slide, for operator side, 60"W x 12"D, fold-down/lift-off brackets, 14/300 series stainless steel

4 ea. Model 375231450-2-C 4-Series Signature Server® V-rib Tray Slide, for customer side, 60"W x 12"D, fold-down/lift-off brackets, 14/300 series stainless steel

Note: must add an "M" to model number when ordering any special fabrication option

4 ea. Model 98850 Work surface flange modified with line-up locks, Keyhole slots on diagonal corners with stainless slide attached to side of base

4 set Model SS4CASTERS 4-Series Signature Server® Swivel Casters, 4"H, (2) braked, standard

ITEM NO. 77.1 - SNEEZE GUARDS (4 REQ'D)

Vollrath

Included with Hot Food Serving Carts (Item #77). See Item #77 for more information.

ITEM NO. 78 - SERVING COUNTER, COLD FOOD (4 REQ'D)

Vollrath Model 37066

4-Series Signature Server® Stainless Steel Countertop with NSF7 Cold Station, self-contained refrigeration, 60"W x 28"D x 34"H, Bloomington-style recessed well displays pans 3" below work surface, coils surround sidewalls, accommodates 6" deep pans, polyurethane foam insulation, standard well drains, seamless display pan well opening 19-7/8" x 50-1/4" x 6-5/8" deep, 1/4 HP, 5.2amps, NEMA 5-15P, 120v/60/1-ph, cULus, NSF, Made in USA

4 set Model SS4CASTERS 4-Series Signature Server® Swivel Casters, 4"H, (2) braked, standard

4 ea. 120v/60/1-ph

4 ea. Model 36694 All Stainless finish for 4-Series Signature Server® with stainless steel countertops, 60"W models

4 ea. Model N36302 NSF2 (2011) Classic Economy Buffet Breath Guard, for 60"W 4-Series Signature Server®, stainless steel uprights, clear acrylic with clear acrylic end panels

- 4 ea. Model 9879304 Upgrade to 14 gauge stainless steel work surface for, 60"W 4-Series Signature Server® Cold Pan
 - 4 ea. Model NO LIGHT OR HEAT No lights or heating, standard, no charge
 - 4 ea. Model 375231450-2-O 4-Series Signature Server® V-rib Tray Slide, for operator side, 60"W x 12"D, fold-down/lift-off brackets, 14/300 series stainless steel
 - 4 ea. Model 375231450-2-C 4-Series Signature Server® V-rib Tray Slide, for customer side, 60"W x 12"D, fold-down/lift-off brackets, 14/300 series stainless steel
 - 4 ea. Model 36915-2 Perforated False Bottom for 4-Series Signature Server® with Stainless Steel Countertops 60" Cold Food Pan Station
- Note: must add an "M" to model number when ordering any special fabrication option
- 4 ea. Model 98850 Work surface flange modified with line-up locks, Keyhole slots on diagonal corners with stainless slide attached to side of base

ITEM NO. 78.1 - SNEEZE GUARDS (4 REQ'D)

Vollrath

Included with Cold Food Serving Carts (Item #78). See Item #78 for more information.

ITEM NO. 79 - MILK COOLER (2 REQ'D)

Beverage Air Model SM34HC-S

School Milk Cooler, cold wall, normal temperature, 34"W x 30-5/8"D x 41-1/8"H, 12.73 cu. ft., single access, flat top carton capacities, (8) 13" x 13" x 11" or (4) 19" x 13" x 11" case capacity, self-latching doors/lids with safety bumpers, cylinder lock, wire floor racks, floor drain, electronic control, manual defrost, stainless steel interior & exterior, R290 Hydrocarbon refrigerant, 1/3 HP, cULus, UL EPH Classified, UL-Sanitation, Made in USA

- 2 ea. Self-Contained refrigeration
- 2 ea. 115v/60/1-ph, 2.2 amps, cord with NEMA 5-15P
- 2 ea. 4" Heavy duty casters, (2) with brakes, standard

ITEM NO. 80 - P.O.S. STATION (1 REQ'D)

Vollrath Model M37021

4-Series Signature Server® Utility Serving Counter, 46"W x 28"D x 34"H, 16/300 series stainless steel top with 1" turndown on all sides, enclosed base, 18/400 series stainless steel unibody construction, cULus, NSF, Made in USA

- 1 ea. Model 2YRWARR Two Year Warranty on Signature Server Units - extension of standard warranty by (1) year
- 1 set Model SS4CASTERS 4-Series Signature Server® Swivel Casters, 4"H, (2) braked, standard
- 1 ea. Model 36693 All Stainless finish for 4-Series Signature Server® with stainless steel countertops Corner Station & 46"W models
- 1 ea. Model 9879503 Upgrade to 14 gauge stainless steel work surface for, 46"W 4-Series Signature Server® Utility Station
- 1 ea. smooth stainless counter, standard
- 1 ea. Model M36981 ***MODIFY FOR WHEELCHAIR ACCESS***
Opening Minimum size: 30"W x 19"D x 27"H (AFF)
- 1 ea. Model 36945 4-Series Signature Server® Cash Drawer, locking, drawer bell, steel construction, black powder coated finish, includes: ABS plastic removable money tray, with (5) coins & (5) bills capacity, stainless steel bill clips/hold downs, aluminum coin breaking plate

ITEM NO. 81 - CARD READERS & P.O.S. SYSTEM (2 LOT REQ'D)

NIKEC - Furnished and installed by District.

ITEM NO. 82 - AIR CURTAIN (2 REQ'D)

Mars Air Systems Model LPN242-1UA-OB

LoPro Series 2 air curtain for 42"W door, sanitation certified to ANSI/NSF 37 standards, unheated, galvanized steel cabinet with Obsidian Black powder coat finish, (1) 1/6 HP motor, 115v/60/1-ph, cETLus

- 2 ea. Model 99-014 Door limit switch, plunger/roller type for indoor applications, single pole double throw, 1 HP max, 250v, 20.0 amps, NEMA 2 (remote mounted)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for installation tolerances, service-utility connections, and other conditions affecting installation and performance of food service equipment. Do not proceed with installation until unsatisfactory conditions have been corrected.
- B. Examine roughing-in for piping, mechanical, and electrical systems to verify actual locations of connections before installation.

3.2 INSTALLATION, GENERAL

- A. Install food service equipment level and plumb, according to manufacturer's written instructions, original design, and referenced standards.
- B. Complete equipment field assembly, where required, using methods indicated.
 - 1. Provide closed butt and contact joints that do not require a filler.
 - 2. Grind field welds on stainless-steel equipment smooth, and polish to match adjacent finish. Comply with welding requirements in "Fabrication, General" Article.
- C. Install equipment with access and maintenance clearances according to manufacturer's written instructions and requirements of authorities having jurisdiction.
- D. Provide cutouts in equipment, neatly formed, where required to run service lines through equipment to make final connections.
- E. Except for mobile and adjustable-leg equipment, securely anchor and attach items and accessories to walls, floors, or bases with stainless-steel fasteners, unless otherwise indicated.
- F. Install cabinets and similar equipment on concrete or masonry bases in a bed of sealant.
- G. Install hoods to comply with NFPA 96 requirements and to remain free from vibration when operating.
- H. Install trim strips and similar items requiring fasteners in a bed of sealant. Fasten with stainless-steel fasteners at 48 inches (1200 mm) on center, maximum.
- I. Install sealant in joints between equipment and abutting surfaces with continuous joint backing, unless otherwise indicated. Provide airtight, watertight, vermin-proof, sanitary joints.

3.3 PROTECTING

- A. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer, that ensures food service equipment is without damage or deterioration at the time of Substantial Completion.

3.4 INSPECTION AND PUNCHLIST

- A. Upon completion of installation and KEC internal quality check, KEC will notify Architect to schedule inspection of equipment and installation by the consultant.
- B. KEC shall make changes indicated in punch list within 5 business days, unless otherwise noted.
- C. KEC shall provide a qualified representative to be present during Health Department Inspection.
- D. KEC shall make changes to comply with Health Department requirements, without delay.

3.5 COMMISSIONING & DEMONSTRATION

- A. Startup Services: Engage factory-authorized service representatives to perform startup services and to demonstrate and train Owner's maintenance personnel as specified below.
 - 1. Coordinate food service equipment startup with service-utility testing, balancing, and adjustments. Do not operate steam lines before they have been cleaned and sanitized.
 - 2. Remove protective coverings and clean and sanitize equipment, both inside and out, and re-lamp equipment with integral lighting. Where applicable, comply with manufacturer's written cleaning instructions.
 - 3. Test each equipment item for proper operation. Repair or replace equipment that is defective in operation, including units that operate below required capacity or that operate with excessive noise or vibration.
 - 4. Test refrigeration equipment's ability to maintain specified operating temperature under heavy-use conditions. Repair or replace equipment that does not maintain specified operating temperature.
 - 5. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
 - 6. Test motors and rotating equipment for proper rotation and lubricate moving parts according to manufacturer's written instructions.
 - 7. Test water, drain, gas, steam, oil, refrigerant, and liquid-carrying components for leaks. Repair or replace leaking components.
 - 8. Train Owner's maintenance personnel on procedures and schedules related to startup and shutdown, troubleshooting, servicing, and preventive maintenance for each food service equipment item.
 - 9. Review data in the operation and maintenance manuals. Refer to Division 1 Section 01 78 00 "Closeout Submittals".
 - 10. Schedule training with Owner, through Architect, with at least 7 days' advance notice or as required by Section 01 79 00 "Demonstration and Training".

END OF SECTION 11 40 00



Project:

**Jefferson Middle School
823 Acacia Ave.
Oceanside, CA 92058**

From:

**Orness Design Group
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(858)457-5955**

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***Jefferson Middle School***

11/29/2023

ITEM# 1 - AIR CURTAIN (1 EA REQ'D)

Mars Air Systems LPN242-1UA-OB

(or District Approved equal)

LoPro Series 2 air curtain for 42"W door, sanitation certified to ANSI/NSF 37 standards, unheated, galvanized steel cabinet with Obsidian Black powder coat finish, (1) 1/6 HP motor, 115v/60/1-ph, cETLus

ACCESSORIES

<u>Mfr</u>	<u>Qty</u>	<u>Model</u>	<u>Spec</u>
Mars Air Systems	1	99-014	Door limit switch, plunger/roller type for indoor applications, single pole double throw, 1 HP max, 250v, 20.0 amps, NEMA 2 (remote mounted)

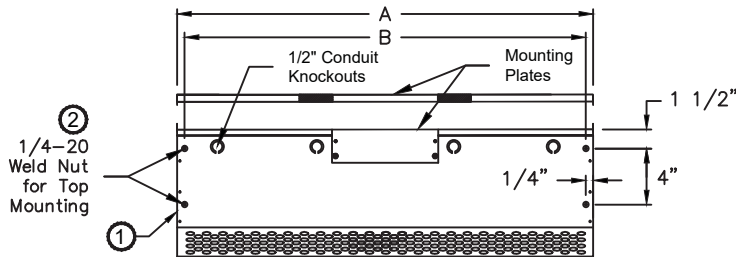
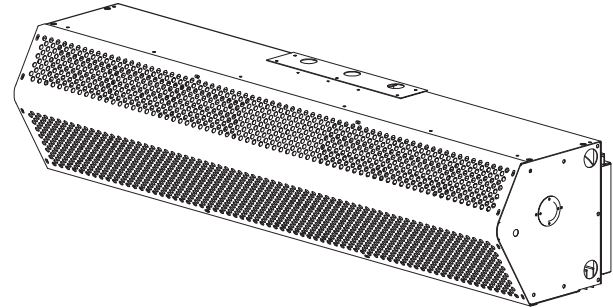


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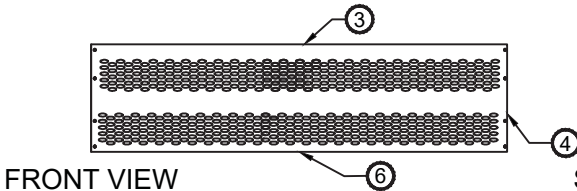
PROJECT		OPTIONS/ITEMS	
TITLE			
COMMENTS		DATE 3/31/15	PAGE
		REV. NO	
MODEL NO. LP2 Series	DRAWING NO LPN2U-F	DRAWN BY FRC	CHECKED BY
		FILE NAME	

Unheated Drawing

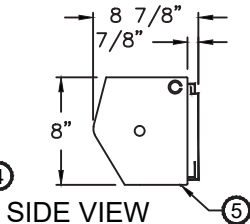
LPN2
 (LoPro2 Sanitation)
 Series



TOP VIEW



FRONT VIEW



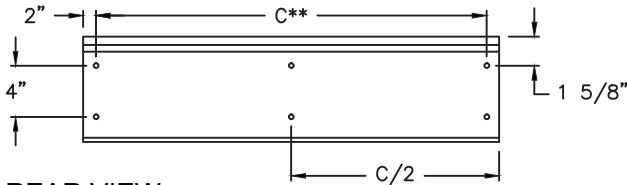
SIDE VIEW



Intertek

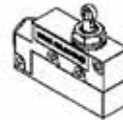


Intertek



REAR VIEW

Ⓢ Recommended Accessories



Door Limit Switches



Brackets

*- Use corresponding letters in "Electrical Data" columns to complete the model numbers.

**- "C" only applies to single units up to 72" units. Dims are not applicable for units 84" and longer.

MODEL NUMBER	OVERALL LENGTH A (in)	MOUNTING LENGTH B (in)	REAR MOUNTING CENTER C (in)
LPN225-1U*-OB	25	24 1/2	21
LPN236-1U*-OB	36	35 1/2	32
LPN242-1U*-OB	42	41 1/2	38
LPN248-1U*-OB	48	47 1/2	44
LPN260-1U*-OB	60	59 1/2	56
LPN272-1U*-OB	72	71 1/2	68
LPN284-2U*-OB	86	85 1/2	N/A
LPN296-2U*-OB	98	97 1/2	N/A
LPN2108-2U*-OB	110	109 1/2	N/A
LPN2120-2U*-OB	122	121 1/2	N/A
LPN2144-2U*-OB	146	145 1/2	N/A

Notes:

- This product is designed to meet the National Electric Code (NEC), ETL (UL 507 and CSA 22.2) and ETL Sanitation (NSF/ANSI 37).
- 1/4" mounting holes provided for wall mounting (4) and overhead mounting (4), (2) on each end.
- All units have a self contained one piece cabinet up to 72", fire retardant and corrosion proof paint lock metal double protected with baked on Obsidian Black color, rust preventative electrostatic polyurethane powder coating.
- Cabinet has sufficient strength for fastening to wall on both ends without intermediate support. LPN225 comes with Aluminum washable filter standard.
- Unit is to be installed such that air flow is unobstructed. Air discharge nozzle containing an adjustable air directional vane with 40° sweep front to back.
- Units greater than 72" are double units joined with a 2" mounting bracket located in the center and must be center supported, field installed.
- Circuit protection as per NEC by others.
- Optional door limit switch and mounting brackets are field installed and/or wired by others. The door limit switch is to be mounted such that the air curtain turns on as door begins to open. To prevent unit damage, the mounting brackets must be installed such that the bottom of the air curtain is not below the door header.



LPN2 (LoPro2 Sanitation) Series

Unheated

Model Lengths 25" – 144"

atmosphere is everything

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Unheated Data Sheet

Applications: Insect Control (up to 7')

LPN2 (Low Profile Sanitation 2) Series 2	Mechanical Data						Lab Data	
Model Number	Nozzle Length (in)	Length (in)	Depth (in)	Height (in)	Motor (hp)	Weight (lbs)	Max Velocity (fpm)	Max Volume (cfm)
LPN225-1U*-OB	25	25	9	8	1/6	20	1800	625
LPN236-1U*-OB	36	36	9	8	1/6	32	1800	900
LPN242-1U*-OB	42	42	9	8	1/6	35	1800	1050
LPN248-1U*-OB	48	48	9	8	1/6	40	1800	1200
LPN260-1U*-OB	60	60	9	8	1/6	48	1800	1500
LPN272-1U*-OB	72	72	9	8	1/6	58	1800	1800
LPN284-2U*-OB	86	86	9	8	Two 1/6	75	1800	2100
LPN296-2U*-OB	98	98	9	8	Two 1/6	83	1800	2400
LPN2108-2U*-OB	110	110	9	8	Two 1/6	92	1800	2700
LPN2120-2U*-OB	122	122	9	8	Two 1/6	102	1800	3000
LPN2144-2U*-OB	146	146	9	8	Two 1/6	122	1800	3600

* - Use corresponding letters in "Electrical Data" columns to complete the model numbers.

Note: ETL Sanitation models available in 60 Hz only.

Features:

- ❖ 1/6 HP continuous duty motors
- ❖ Sleek self-contained one piece heavy gauge corrosion proof paint lock metal design
- ❖ Very low profile design, 8" (H) x 8 7/8" (D)
- ❖ ETL Certified to conform to ANSI/NSF 37 Standards for Service Windows up to 4' above the counter top (filters required) and for Customer Entrances up to 7'
- ❖ ETL Certified to conform to UL 507 (US) and CSA 22.2 (Canada) Standards (Indoor/Outdoor Use)
- ❖ Wall mounting bracket removable for easy installation
- ❖ Top mounting well nuts provided (1/4")
- ❖ Cabinet has sufficient strength for fastening to wall on both ends without intermediate support up to 72". (Models 84" to 144" require intermediate support in the center.)
- ❖ Adjustable air directional vanes with 40° sweep front to back
- ❖ Standard color is Obsidian Black
- ❖ Rust preventative electrostatic polyurethane powder coating
- ❖ 5 year parts warranty
- ❖ Freight Included (FOB Continental USA)
- ❖ Proudly Made in the USA

Electrical Data (FLA)	Unit Voltage (Voltage Code)	
	115v/1Ø (A)	208/230v/1Ø (D)
LPN225-1U*-OB	2.4	1.2
LPN236-1U*-OB	2.4	1.2
LPN242-1U*-OB	2.4	1.2
LPN248-1U*-OB	2.4	1.2
LPN260-1U*-OB	2.6	1.4
LPN272-1U*-OB	2.6	1.4
LPN284-2U*-OB	4.8	2.4
LPN296-2U*-OB	4.8	2.4
LPN2108-2U*-OB	5.0	2.6
LPN2120-2U*-OB	5.2	2.8
LPN2144-2U*-OB	5.2	2.8

* - Use corresponding letters in "Electrical Data" columns to complete the model numbers.

Note: For Ampacity Multiply FLA X 1.25

Options and Accessories: (see Accessories Brochure)

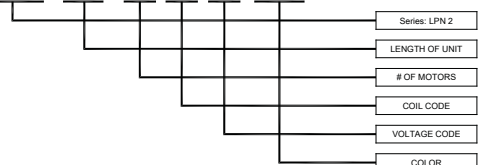
- ❖ Door Limit Switches
- ❖ Wall and Overhead Bracket
- ❖ Custom colors and finishes (304SS, 316SS)

Sound Levels: (measured at 10' in an open field)

(25" & 36") - 49 dBA, (42") - 50 dBA, (48") - 52 dBA, (60"-96") - 53 dBA & (108"-144") - 54dBA

EXAMPLE

LPN2 72 - 1 U A -OB



Intertek Intertek

NOTE: MARS AIR SYSTEMS, LLC reserves the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions or replacements for previously purchased equipment.

Door Limit Switches



NEMA1 to NEMA9 Models

atmosphere is everything

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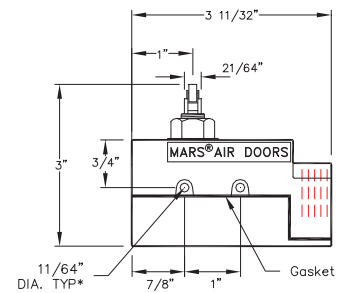
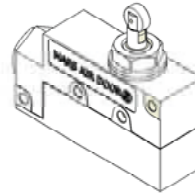
Door Limit Switches

Door Switch Number	Description	Voltage	Phase	HP	Amperage	Poles	NEMA Rating
99-013	Standard Roller Type	250V	1	1	20	1	NEMA 1
99-014	Standard Combination Plunger/Roller Type	250V	1	1	20	1	NEMA 1
99-270	Washdown Roller Type	250V	1	1	20	1	NEMA 4X
99-016	Explosion Resistant 1 Roller Type	250V	1	3/4	15	1	NEMA 7 & 9

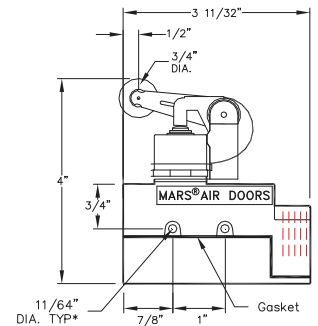
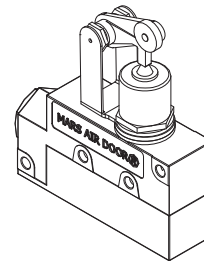
Note: DO NOT GROUND the COM terminal. This is the common terminal and not ground or neutral. Please see the wiring instructions for the switches.

Features:

- ❖ UR (UL Recognized) and rated for NEMA 1 (field installed by others)
- ❖ Combination plunger/Roller (99-014) & Roller Type (99-013) door limit switches available to suit various applications
- ❖ Only available for 115V, 208V or 230V, 1 \emptyset power (If any of the ratings are exceeded, an optional motor control panel must be used)
- ❖ Maximum ratings of 1 HP, 250V and 20A. See model specs
- ❖ Single pole terminal (1P) normally closed (NC) and normally opened (NO) contact. Only the NC terminals are used and provided with terminal screws
- ❖ Used when automatic control of an air curtain(s) is required
- ❖ Turns the air curtain on when the door opens and off when the door closes
- ❖ 1 year parts warranty
- ❖ Requires less than 1/8" of travel or 2 lbs. of force on the switch plunger to energize and de-energize the air curtain
- ❖ 1/2" FPT conduit connection (field wired by others)
- ❖ (2) 11/64" mounting holes provided*
*Do not use a fastener larger than a #6 sheet metal screw or a #8 Machine screw to mount this door limit switch. Forcing larger screws through the mounting holes may destroy the switch and void the warranty.



99-014 – Combination Plunger/Roller Type

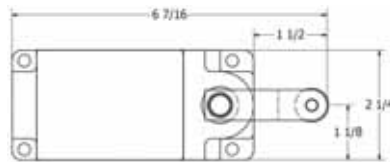
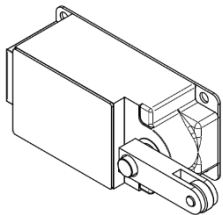


99-013 - Roller Type

Options and Accessories: (see Accessories Brochure)

Washdown

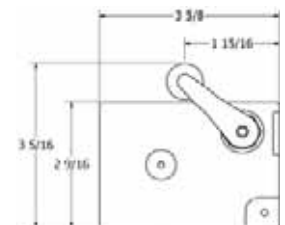
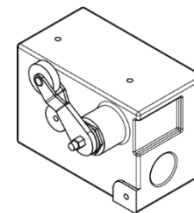
- ❖ UR (UL Recognized) and rated for NEMA4X/IP55 (field installed by others)
- ❖ Roller Type 99-270 are rated for 250V, 20A, 1 HP



99-270 – Washdown Roller Type

Explosion Resistant

- ❖ UR (UL Recognized) and rated for NEMA 7 & 9 (Class 1, Division 1, Group D) (field installed by others)
- ❖ Roller Types 99-016 are rated for 250V, 15A, 3/4 HP



99-016 – Explosion Resistant Roller Type

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Jefferson Middle School

11/29/2023

ITEM# 2 - EMPLOYEE LOCKERS (3 EA REQ'D)

REPSTRG 753811

(or District Approved equal)

Locker, five tier, single wide, (5) 12"W x 15"D x 12"H doors, beige powder coated paint finish, 6" legs 2 each ADA compliant lockers.

ACCESSORIES

Mfr	Qty	Model	Spec
REPSTRG	3		Provide with sloping tops and 20-gauge closed front and end bases, as required.

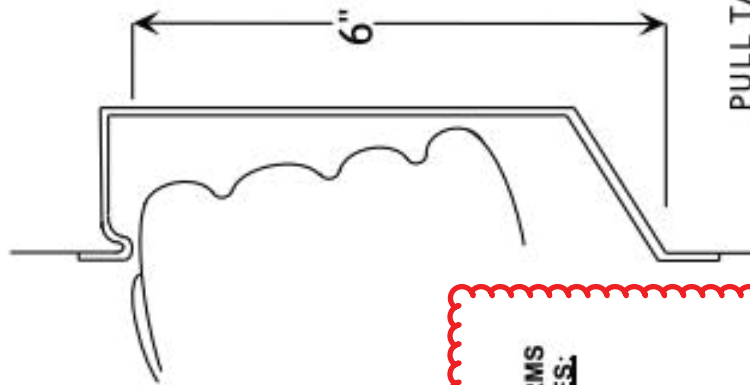
ADA COMPLIANT LOCKERS

Handicap accessibility for lockers is based on 2 main factors: handle operation and reach limitations.

REACH: Bottom, handle and hook locations conform to required dimensions as shown bottom right. Bottom height may be no lower than 9" off the floor for parallel reach requirement. The 15" forward reach requirement does not have to apply to lockers.

HANDLE: ADA handles must be operable with one hand and not require tight pinching, grasping, twisting of the wrist or more than 5 lbs. of force to operate. The acid test for an acceptable handle is if it can be operated with a fist. As shown below, our handle provides sufficient room for a large fist to raise the lifting trigger that opens the door. The lifting trigger is curved (and textured) at the bottom so the top finger of a fist will not slip off while opening the door.

RECESSED HANDLE ON
WARDROBE LOCKERS
MEETS ADA



PULL TAB ON
BOX LOCKERS
MEETS ADA

THIS ARRANGEMENT CONFORMS
WITH THE FOLLOWING CODES:

- ADA 4.2.6
- ADA 4.25.3, 4
- ADA 4.27.4
- CA T24 1117B.6.4
- CA T24 1118B.6
- CA T24 1125B.3, 4
- CA DSA Access Regulation
1127A.6, and 1127A.9

THIS ELEVATION SHOWS WHICH
OPENINGS ARE ADA ACCESSIBLE
IN EACH CONFIGURATION



Contents

- 3 Common Locker Features
- 4 Quik-Ship Lockers
- 5 Standard Lockers
- 6 Quiet Lockers
- 7 Heavy Duty Corridor Lockers
- 8 Single Point II Corridor Lockers
- 9 Heavy Duty Ventilated Athletic Lockers
- 10 Single Point III Athletic Lockers
- 11 All Welded Ventilated Athletic Lockers
- 12 ULTRA-Frame Lockers
- 13 MVP Athletic Lockers
- 14 Emergency Response Lockers
- 15 Special Application Lockers
- 16 Options, Accessories & Trim
- 18 Locker Details

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www.republicstorage.com

Locker Colors

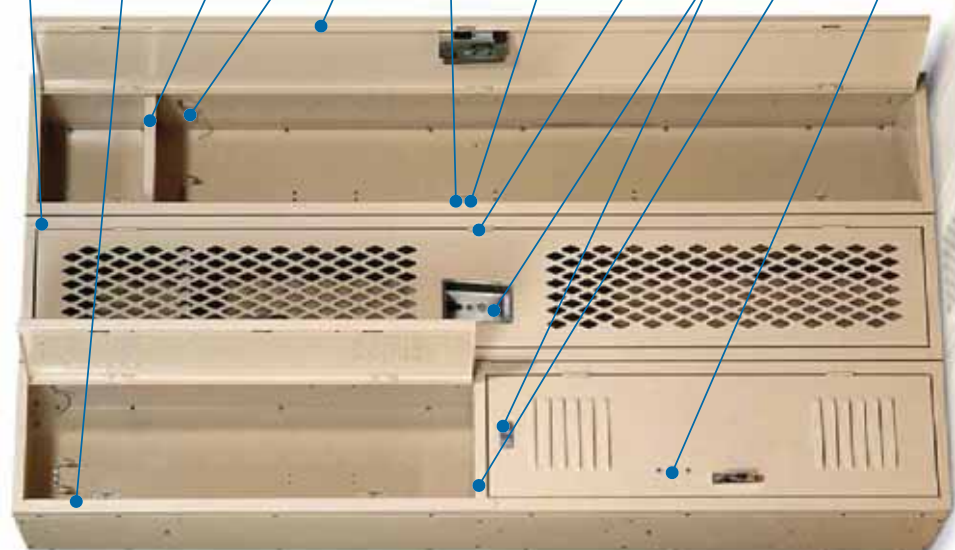


Contact your Republic Representative for information on these options:

- Exposed tops and end panels painted to match doors/frames
- All locker body parts painted to match doors/frames
- Special paint film thickness or two-coat finish
- Colors other than standard color offerings
- Doors and frames painted different colors

The Republic Locker

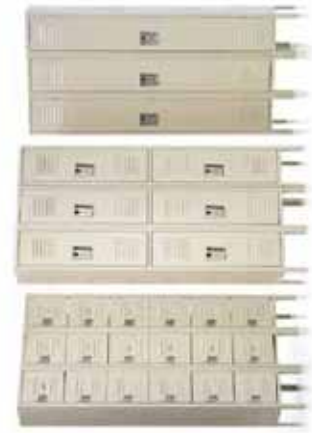
All Republic locker bodies are fabricated from premium quality cold rolled steel. Tops, bottoms, and shelves have flanges on all four sides. The design of backs and uprights provides for double-lapped rear vertical corners for extra strength.



- Overlapping frame members are double-welded in each corner for a rigid assembly.
- Full height continuous door strikes on both left and right side frames provide strength and security.
- Book shelf is provided in single tier lockers (48" or higher).
- Steel coat hooks are zinc plated.
- Double channel lock bar with spring steel latches is protected within full height channel-edge door construction.
- Sturdy, heavy gauge steel frame hooks provide secure latching.
- Rubber bumpers are provided at each hook to reduce door noise.
- Full loop, 5 knuckle hinges are double-riveted to door and welded to side frame.
- Aluminum number plates have easy-to-read 1/2" high black numerals.
- Cross frames between tiered doors provide an exceptionally strong and rigid frame assembly.
- Punching for built-in locks is provided in all doors.

Owik-Ship Lockers ready now

Standard Lockers the industry benchmark



Configurations and Sizes:

Single Tier Lockers	W	D	H	1-Wide #	3-Wide #
	12	12	60	753668	753668
	12	15	60	753670	753672
	12	18	60	753674	753676
	12	12	72	753678	753680
	12	15	72	753682	753684
	12	18	72	753686	753688
	18	18	72	753694	753696
Double Tier Lockers	W	D	H	1-Wide #	3-Wide #
	12	12	30	753706	753708
	12	12	36	753710	753712
	12	15	36	753714	753716
	12	18	36	753718	753720
	15	18	36	753722	753724

5-High Box Lockers	W	D	H	1-Wide #	3-Wide #
	12	12	12	753801*	753803*
	12	15	12	753811*	753813*

6-High Box Lockers	W	D	H	1-Wide #	3-Wide #
	12	12	12	753881*	753883*
	12	15	12	753891*	753893*
	12	18	12	753901*	753903*

16-Person Minut-Robe	W	D	H	Part #
	72	18	72	753945*

Republic's Qwik-Ship Lockers

Standard Features:

Material: ...

Assembly: ...

Hinge: ...

Handle: ...

Latching: ...

Ventilation: ...



Optional Accessories:

Front and End Bases: ...

Individual Sloping Tops: ...

Recess Trim: ...

Fillers: ...



Republic's Standard Locker

Standard Features:

Material: ...

Assembly: ...

Hinge: ...

Handle: ...

Latching: ...

Ventilation: ...



Optional Features:

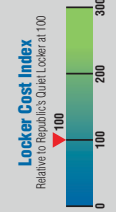
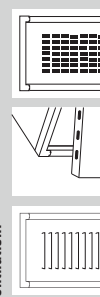
Material: ...

Assembly: ...

Handle: ...

Hinge: ...

Ventilation: ...

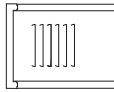


Configurations and Sizes:

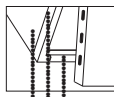
Single Tier Lockers	W	D	H
	9, 12, 15, 18, 24	12, 15, 18, 21, 24	15, 18, 21, 24
*actual height is 36 1/2"			
Double Tier Lockers	W	D	H
	9, 12, 15, 18, 24	12, 15, 18, 21, 24	24, 30, 36, 42
Triple Tier Lockers	W	D	H
	12	12, 15, 18	20, 24
4-High Box Lockers	W	D	H
	12, 15	12, 15, 18	12
5-High Box Lockers	W	D	H
	12, 15	12, 15, 18	12, 14, 4
6-High Box Lockers	W	D	H
	12, 15	12, 15, 18	12
Two Person Lockers	W	D	H
	15, 18	12, 15, 18, 21	60, 72
Four Tier Lockers	W	D	H
	12	12, 15, 18	12, 15, 18
3-High Box Lockers	W	D	H
	9, 12, 15	12, 15, 18	20, 24
Ski Lockers	W	D	H
	12, 15	15, 18	84
Double Door Lockers	W	D	H
	24	18, 21, 24	60, 72

Options ventilation, exposed ends and locks

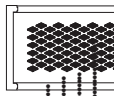
Ventilation



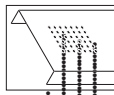
Standard Louvers



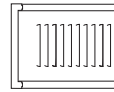
Verti-Vent Perforations



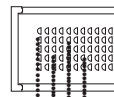
Diamond Perforations



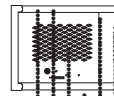
Round Perforations



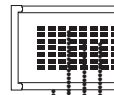
Full Louvers



Mini-Louvers



Small Diamond Perforations

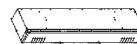
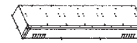


Visual Slots

Exposed Ends

Standard Uprights

Option: No Extra Hole Uprights



Standard Upright

No Extra Hole Upright

End Finishing Panel

Box End Panel Flat Top Single Row

Box End Panel Flat Top Double Row

Box End Panel Slope Top Single Row

Box End Panel Slope Top Double Row

Locks



Built-in Combination, Padlock, Flat Key, and Grooved Key Locks



Digilock ADA compliant locks



Digilock electronic locks



Safe-Or-Hat coin lock systems

Options finish trim, benches and basket rack shelving

Finish Trim

6" legs

20 degree Grooved Front and End Benches

16 gauge Zee Basins

Number Plates

Standard Box Locker Rails

Recess Trim

Continuous Sloping Tops

Benches



Moveable Benches



Benches and Pedestals



ADA Compliant Benches & Pedestals

Basket Rack Shelving

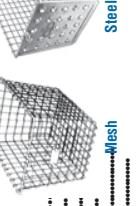
Republic Basket Rack Shelving



Moveable Benches

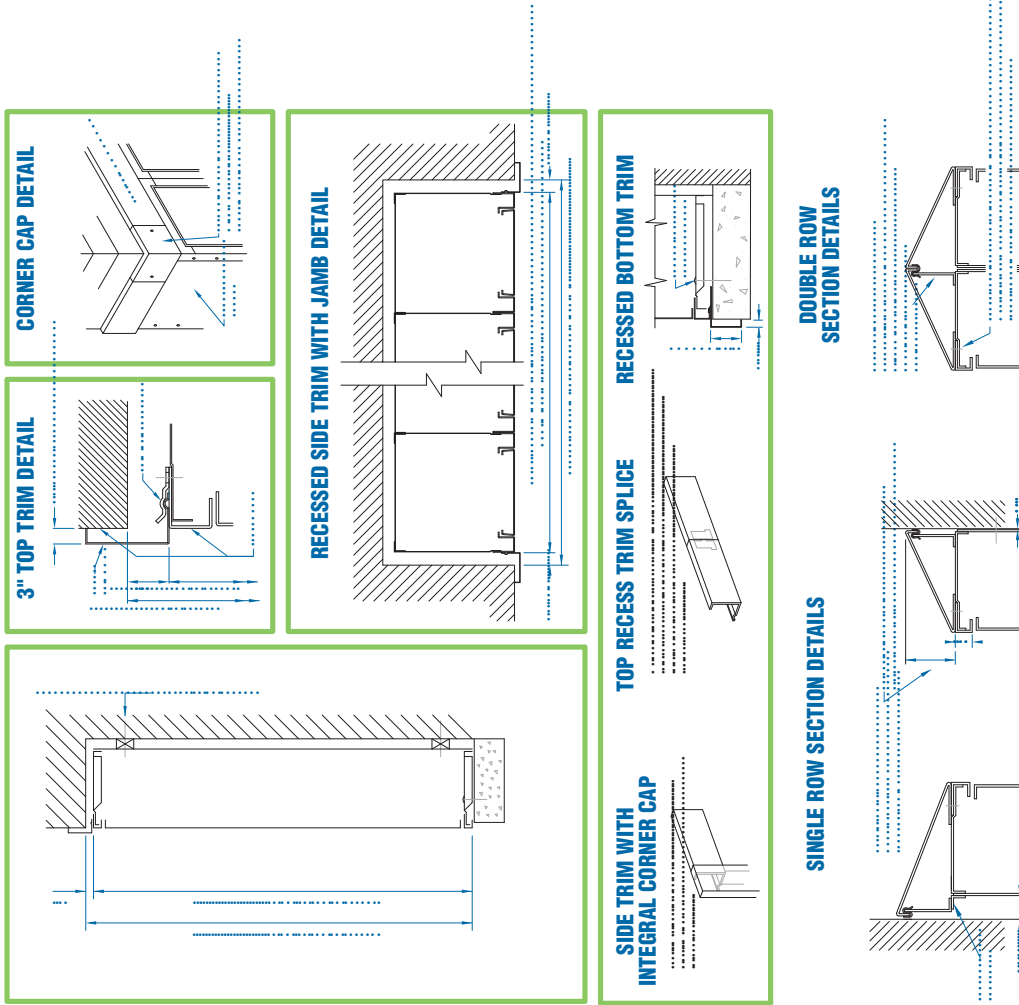
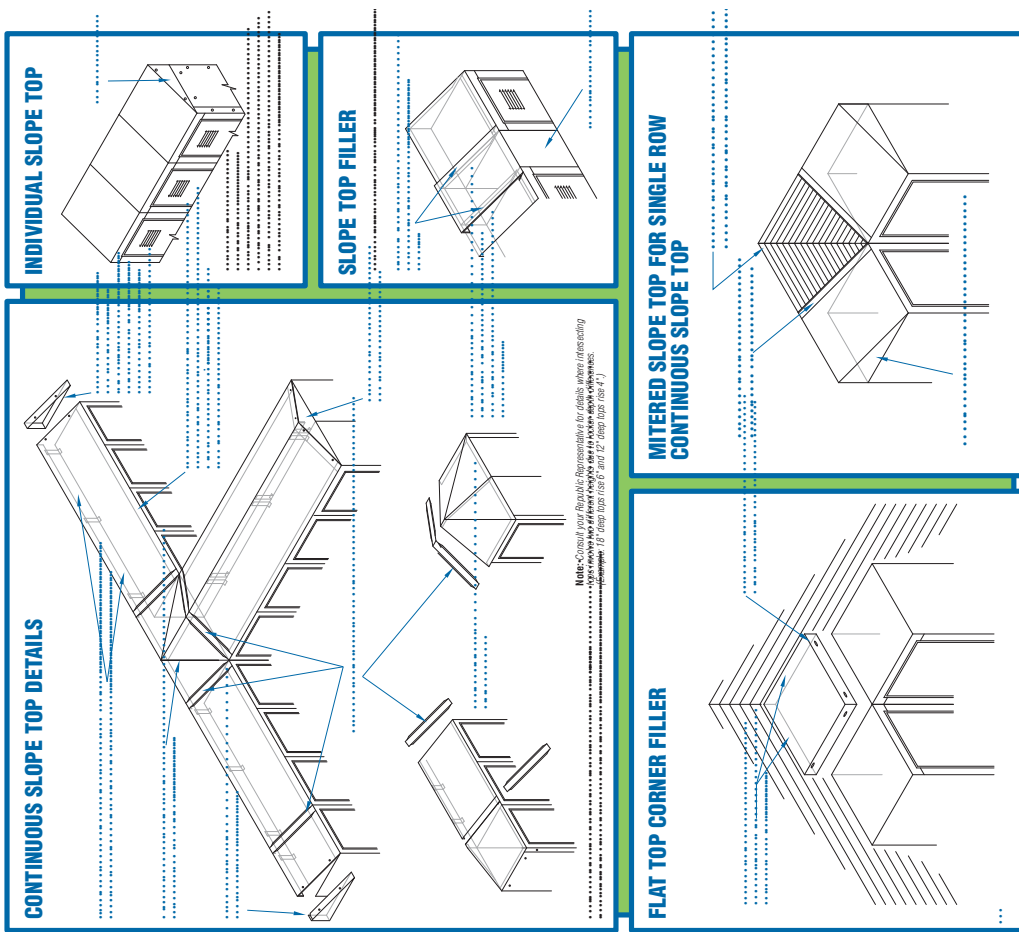


ADA Compliant Benches & Pedestals



ADA Compliant Benches & Pedestals

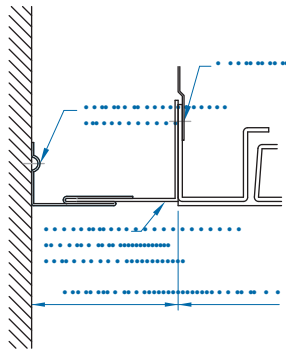
Locker Details



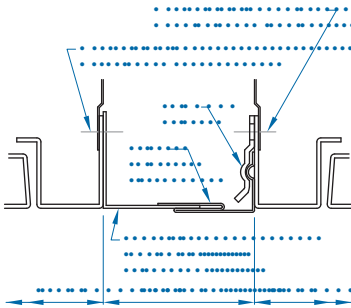
Locker Details

Locker Details

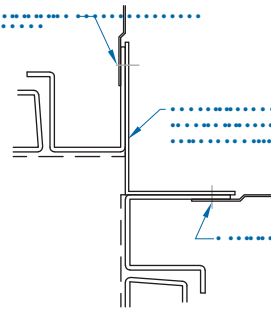
SLIP JOINT FILLER AT WALL



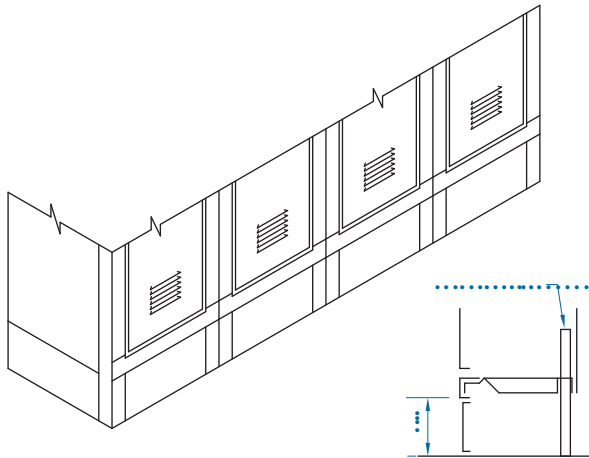
SLIP JOINT FILLER BETWEEN LOCKERS



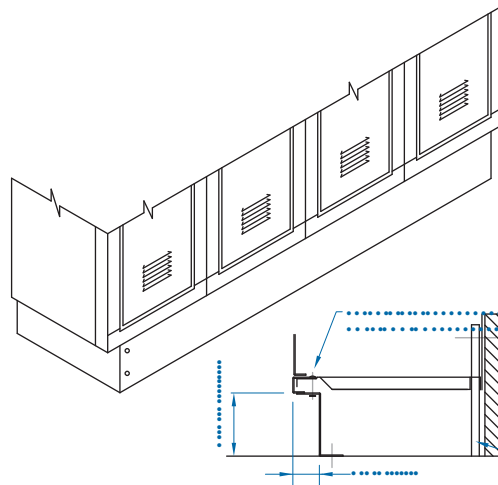
ANGLE FILLER AT CORNER



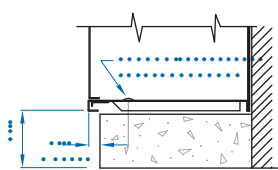
CLOSED BASE AND 6" LEGS



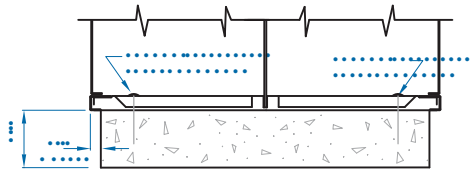
16 GAUGE ZEE BASE



BASE SECTION (FOR SINGLE ROW)

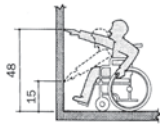
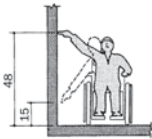


BASE SECTION (FOR DOUBLE ROW LOCKERS)



Republic
STORAGE SYSTEMS, LLC







Jefferson Middle School

11/29/2023

ITEM# 3 - CORNER GUARDS (2 EA REQ'D)

CUSTOM SS

Custom fabricated 16-gauge stainless steel corner guards at all exposed kitchen wall corners. 2"x2", from top of coved base to bottom of ceiling. Attach to wall without exposed fasteners. Verify quantity and height.



Jefferson Middle School

11/29/2023

ITEM# 4 - MOP SINK (1 EA REQ'D)

NIKEC

Furnished and installed by Plumbing Contractor.



Jefferson Middle School

11/29/2023

ITEM# 5 - MOP SINK FAUCET (1 EA REQ'D)

NIKEC

Furnished and installed by Plumbing Contractor.



Jefferson Middle School

11/29/2023

ITEM# 6 - MOP SINK STORAGE WALL SHELF W/ MOP HOLDER (1 EA REQ'D)

John Boos PB-MSS824

(or District Approved equal)

Utility Shelf, wall-mounted, 24"W x 8"D, Stallion Safety Edge front, 1-1/2" riser on sides & rear, includes hooks & (2) mop/broom holder with locking cam, 16/300 stainless steel, KD



SPEC SHEET

"PB-MSS" UTILITY SHELVES - WALL MOUNTED w/1½" Riser On Rear & Sides

FEATURES:

- 16GA, Type 300 Stainless Steel With #4 Polish, Satin Finish
- Finished With A Safety Stallion Front Edge
- 1-1/2" Riser Turned Up Backsplash On Rear And Sides
- Includes (3) Hooks And (2) Mop/Broom Holders With Locking Cam
- Shipped Knocked-Down, Easy-To-Assemble, Most Ship Ups

SPECIFICATIONS:

- Stainless Steel Shelves Are TIG Welded
- Exposed Welds Are Polished To Match Adjacent Surface
- Shelf: 16GA, Type 300 Stainless Steel #4 Polish, Satin Finish
- Brackets: 16GA, Type 300 Stainless Steel #4 Polish, Satin Finish



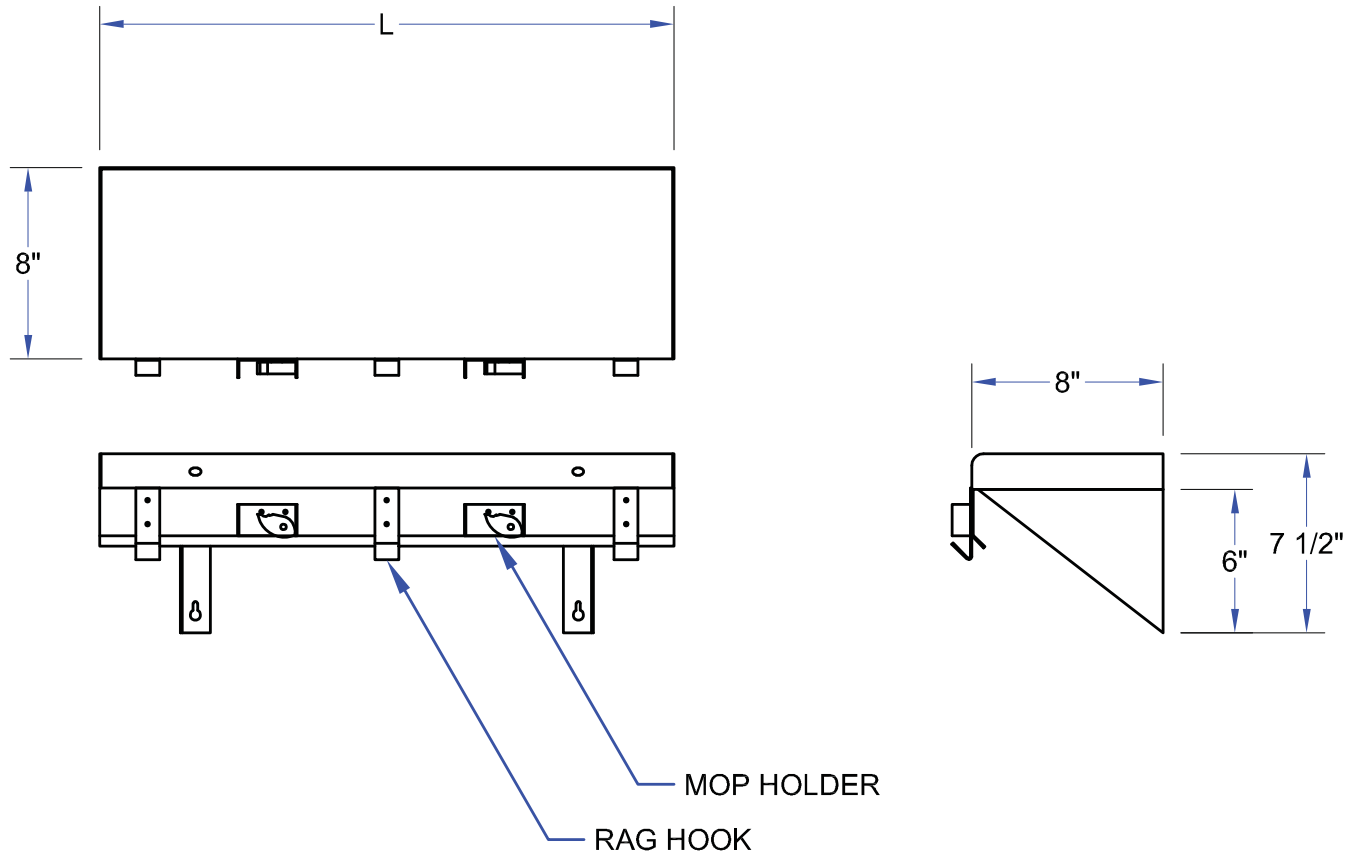
MOP/BROOM HOLDER

"PB-MSS" UTILITY SHELVES

MODEL	SIZE (LXWXH)	WEIGHT (LBS)
PB-MSS824	24"x8"	10
PB-MSS836	36"x8"	15

ALL DIMENSIONS ARE TYPICAL. TOLERANCE +/- .500". JOHN BOOS & CO. RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

DETAILED SPECIFICATIONS



"PB-MSS" UTILITY SHELVES

MODEL	SIZE (LXWXH)	WEIGHT (LBS)
PB-MSS824	24"x8"	10
PB-MSS836	36"x8"	15

ALL DIMENSIONS ARE TYPICAL. TOLERANCE +/- .500". JOHN BOOS & CO. RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



Jefferson Middle School

11/29/2023

ITEM# 7 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 8 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 9 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 10 - DUNNAGE RACK (1 EA REQ'D)

John Boos ALJB362012

(or District Approved equal)

Dunnage Rack, square bar, 1-tier, 36"W x 20"D x 12"H, weight capacity 1500 lbs., all welded aluminum construction



ITEM #: _____ QTY: _____
 MODEL #: _____
 PROJECT NAME: _____

062217

3601 S. Banker St. Effingham, IL 62401 • P.O. BOX 609 • Ph: (888) 431-2667 • Fax: (800) 433-2667

"ALJB" ALUMINUM DUNNAGE RACKS

FEATURES:

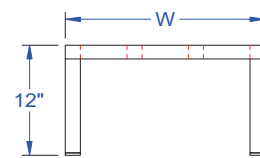
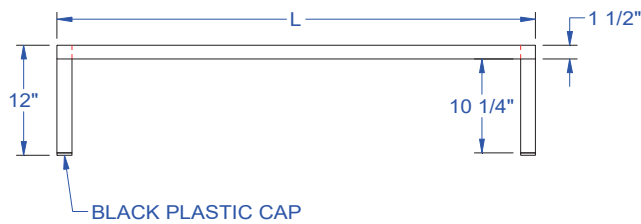
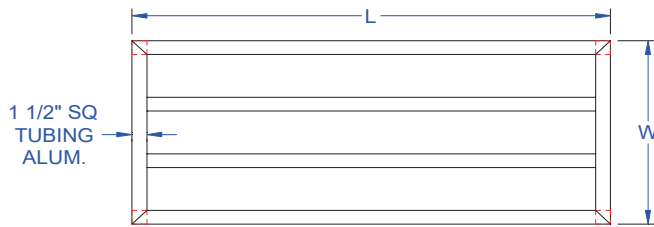
- 6063 ALUMINUM 1-1/2" SQUARE TUBING
- ALUMINUM LEGS AND PLASTIC FEET

CONSTRUCTION:

- TOP: 6063 ALUMINUMS ARE MIG WELDED

MATERIAL:

- TOP: 6063 ALUMINUM
- FEET: PLASTIC



L	H	20" WIDE	WT. (LBS)	QTY	24" WIDE	WT. (LBS)	QTY
36"	12"	ALJB362012	11		ALJB362412	12	
48"	12"	ALJB482012	14		ALJB482412	16	
60"	12"	ALJB602012	16		ALJB602412	20	

SOME UNITS SHIP UNASSEMBLED FOR REDUCED SHIPPING COST. ALL DIMENSIONS ARE TYPICAL. TOLERANCE +/- .500"
 John Boos & Co. is constantly engaged in a program of improving products and therefore reserves the right to change specifications without prior notice.



3601 S. Banker St. • Effingham, IL 62401 • PO BOX 609 • quotes@johnboos.com

www.johnboos.com



Jefferson Middle School

11/29/2023

ITEM# 11 - ICE MAKER, CUBE-STYLE (1 EA REQ'D)

Hoshizaki KM-520MAJ

(or District Approved equal)

Ice Maker, Cube-Style, 22"W, air-cooled, self-contained condenser, production capacity up to 556 lb/24 hours at 70°/50° (480 lb AHRI certified at 90°/70°), stainless steel finish, crescent cube style, R-404A refrigerant, 115v/60/1-ph, 10.6 amps, NSF, UL, ENERGY STAR®

ACCESSORIES

Mfr	Qty	Model	Spec
Hoshizaki	1	B-500SF	Ice Bin, 30"W, top-hinged front-opening door, 500-lb ice storage capacity, for top-mounted ice maker, stainless steel exterior, painted legs included, protected with H-GUARD Plus Antimicrobial Agent, ETL, ETL-Sanitation
Hoshizaki	1	HS-2033	Top Kit, 8", ABS
Hoshizaki	1	HS-5429	Bin Door Catch
Hoshizaki	1	HS-5607	Scoop Holder Kit



KM-350/520/660M_J(Z)



KM-350/520/660M_J(Z)
12/06/22
Item # 13260

SLIM-LINE MODULAR CRESCENT CUBER

W x D x H
22" x 27^{3/8}" x 28"

KM|EDGE
ICE MACHINE SERIES

Air-Cooled

- KM-350MAJ ★
- KM-520MAJ ★
- KM-660MAJ

Air-cooled model
shown on optional bin: B-300



Water-Cooled

- KM-350MWJ
- KM-520MWJ
- KM-660MWJ

Remote Air-Cooled

- KM-520MRJZ★
- KM-660MRJZ★



Features

- ▶ Individual crescent cube
- ▶ Factory-installed ultrasonic bin control can be adjusted on site
- ▶ Simple, one-hour cleaning process

- Durable construction with fewer parts
- Self-diagnostic programming automatically adjusts to changing conditions
- Snap fit parts for easy cleaning
- Stainless steel double-sided evaporator
- CycleSaver™ design
- Protected by H-GUARD Plus Antimicrobial Agent
- EverCheck™ alert system
- Removable air filters (air-cooled model only)
- R-404A Refrigerant

Available on Bins/Dispensers:

B-250SF	B-500/SF	B-800SF	B-1150SS	DB-130H
B-300SF	B-700SF	B-900SF	B-1300SS	DB-200H
				DM-200B

Top kit may be required. See Bin Spec Sheets.

Warranty:

3 Year Parts & Labor on entire machine 5 Year Parts & Labor on evaporator
5 Year Parts on Compressor; air-cooled condenser coil
Valid in United States, Canada, Puerto Rico and U.S. Territories. Contact factory for warranty in other countries.

Shipping: (LxWxH) 33.5" x 25.88" X 34.6" Volume: 17.36ft³



Condenser	Model	ICE PRODUCTION		WATER USAGE		ELECTRICAL							
		Air / Water Temp Lbs. per 24 hours 70°/50°F	90°/70°F	Potable Gal. per 100 lbs. 90°/70°F	Condenser Gal. per 100 lbs. 90°/70°F	kWh Used per 100 lbs. 90°/70°F	Min. Circuit Amp - Max. Fuse/Breaker	Amperage	Voltage	Circuit Wires (including ground)	Heat Rejection BTU/hr.	Refrigerant Charge Amount	Net / Ship Weight (lbs.)
Air	KM-350MAJ ★	489	393	14.5	N/A	5.42	15A	9.05A	115V/60/1	3	5,700	1 lb. 3.4 oz.	125 / 175
Water	KM-350MWJ	414	383	15.5	109	4.90	15A	7.5A	115V/60/1	3	6,600	11.6 oz.	126 / 175
Air	KM-520MAJ ★	556	480	14.7	N/A	4.68	20A	10.6A	115V/60/1	3	6,600	1 lb. 10.8 oz.	145 / 175
Water	KM-520MWJ	474	444	14.8	75	4.65	20A	8.45A	115V/60/1	3	6,300	12.7 oz.	127 / 175
Remote	KM-520MRJZ ★	547	495	13.6	N/A	4.80	20A	12.05A	115V/60/1	3	6,200	2 lb. 4.7 oz. 4 lb. 2.7 oz. ¹	145 / 175
Air	KM-660MAJ	650	560	14.8	N/A	5.3	20A	15.2A	115V/60/1	3	8,000	1 lb. 9.8 oz.	150 / 180
Water	KM-660MWJ	647	630	16.1	152	4.28	20A	12.35A	115V/60/1	3	8,900	15.2 oz.	130 / 180
Remote	KM-660MRJZ ★	642	570	15.0	N/A	5.25	20A	16.1A	115V/60/1	3	8,100	2 lb. 4.7 oz. 4 lb. 2.7 oz. ¹	150 / 180

¹ (with condenser)

Power cord not included. Must be hard-wired at site.

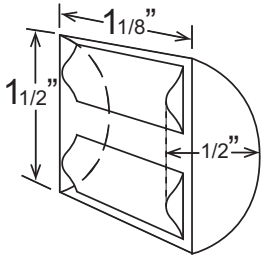
Hoshizaki reserves the right to change specifications without notice.



KM-350/520/660M_J(Z)

SLIM-LINE MODULAR CRESCENT CUBER

KM Edge Cube Dimensions†



† approximate size in inches, image not to scale

Operating Limits

- Ambient Temp Range 45 - 100°F
- Water Temp Range 45 - 90°F
- Water Pressure 10 - 113 PSIG
- Voltage Range 104 - 127V

Service

- Panels easily removed and all components accessible for service.
- Removable/cleanable air filters. (Air-cooled model only)
- Allow 6" (15 cm) clearance at rear, sides, and top for proper air circulation and ease of maintenance/service.

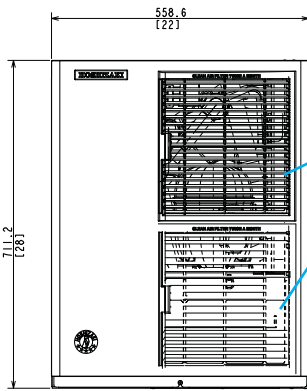
Plumbing

- Icemaker water supply line: minimum 1/4" nominal ID copper water tubing or equivalent
- Icemaker drain line: minimum 3/4" nominal ID hard pipe or equivalent Water-Cooled Model (Lines Must Be Independent of Icemaker)
- Condenser water supply line: minimum 1/4" nominal ID copper water tubing or equivalent
- Condenser drain/return line: minimum 1/4" nominal ID hard pipe (open drain system) or copper water tubing (closed loop system) or equivalent

Water Filter

Please refer to water filter specification sheet for recommendations.

FRONT VIEW

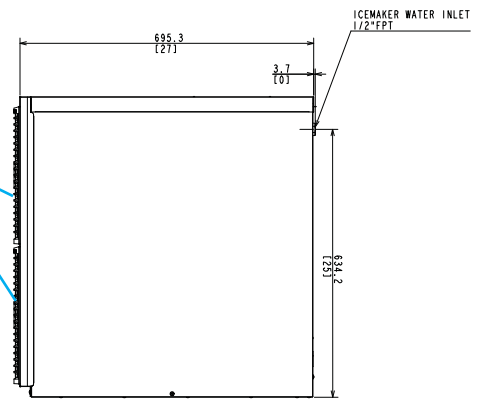


Louvers on Air-Cooled models only

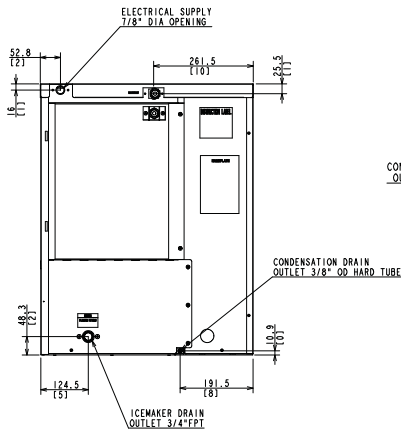
SIDE VIEW

Louvers on Air-Cooled models only

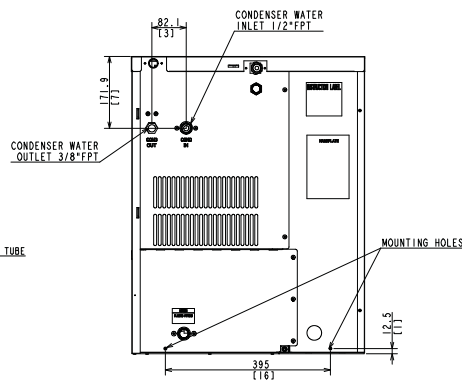
Front



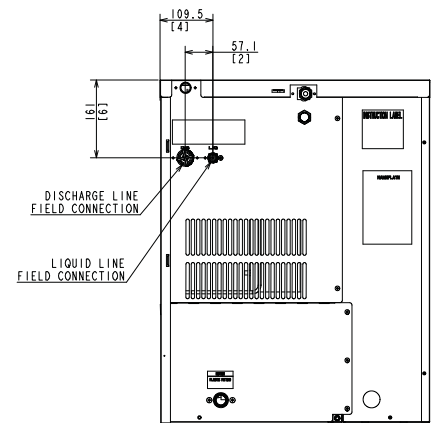
REAR VIEW



AIR-COOLED

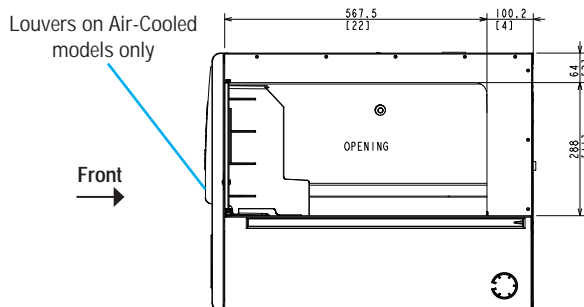


WATER-COOLED



REMOTE AIR-COOLED

BOTTOM VIEW



URC-5FZ Remote Condenser (Sold Separately)

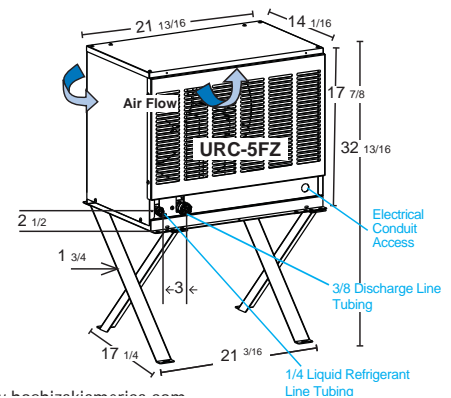
(W x D x H) 21^{13/16} x 14^{1/16} x 32^{13/16}

For Use with KM-520MRJZ and KM-660MRJZ

Brazed Line Sets (Sold Separately)

25' HS-5587

35' HS-5588





SF Bins

ICE STORAGE BIN SERIES



Item #: _____
 Project: _____
 Qty: _____
 AIA#: _____

SF - Stainless Steel Finish



Intertek

Features

- ▶ Protected by H-GUARD Plus Antimicrobial Agent
- ▶ Polyethylene bin liner for sanitary storage
- ▶ Sturdy construction for side-by-side or stacked ice machine installation

- Ice storage capacity from 250 lbs. up to 900 lbs.
- Both surfaces are designed for easy cleaning
- Long lasting attractive appearance
- Foamed-in-place polyurethane insulation, in all bin walls and bottom, provides dependable ice storage
- H-GUARD Plus Antimicrobial adds extra protection to the ice scoop (included)

SF - Stainless Steel Finish

BD Bins

- Fit 24" - 24 1/2" deep ice machine without top kit extension

Warranty:

2 Year Parts & Labor (Production prior to January 2012)
 3 Year Parts & Labor (Production January 2012 and after)
 Valid in United States, Canada, Puerto Rico and U.S. Territories. Contact factory for warranty in other countries.

Model Number	Exterior Dimensions W x D x H*	Interior Dimensions W x D x H	Application Storage Capacity †	Cubic Volume	Shipping Dimensions L x W x H	Shipping Weight (lbs.)
B-250SF	30" x 32.3" x 33.4"	27" x 27.7" x 23.7"	250 lbs.	10.30 ft ³	35" x 32" x 32"	—
B-300SF	22" x 32.3" x 46"	19" x 27.7" x 37.6"	300 lbs.	11.51 ft ³	35" x 24" x 45"	125
BD-300SF	22" x 32.3" x 46"	19" x 27.7" x 37.6"	300 lbs.	11.51 ft ³	35" x 24" x 45"	130
B-500SF	30" x 32.3" x 46"	27" x 27.7" x 37.6"	500 lbs.	16.33 ft ³	35" x 32" x 45"	140
BD-500SF	30" x 32.3" x 46"	27" x 27.7" x 37.6"	500 lbs.	16.33 ft ³	35" x 32" x 45"	140
B-700SF	44" x 32.3" x 46"	41" x 27.7" x 37.6"	700 lbs.	24.77 ft ³	46" x 35" x 45"	175
B-800SF	48" x 32.3" x 46"	45" x 27.7" x 37.6"	800 lbs.	26.90 ft ³	50.25" x 35" x 45"	185
B-900SF	52" x 32.3" x 46"	49" x 27.7" x 37.6"	900 lbs.	29.59 ft ³	54.5" x 35" x 45"	195

*Height includes 6" legs

† Capacity based on volume x 30 lb/ft³ average density of ice.



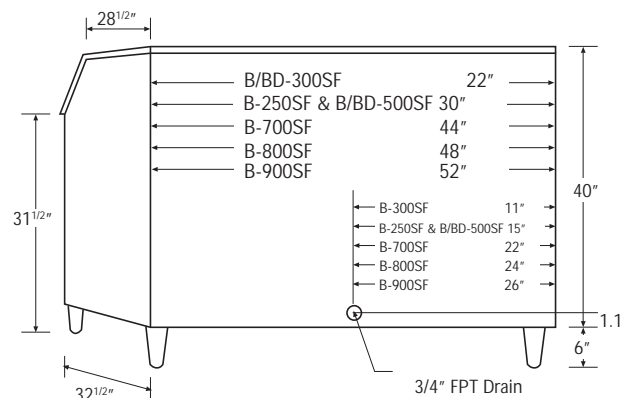
SF Bins

ICE STORAGE BIN SERIES



Ice Machine Model Application

	22" Width	22" Width	30" Width	30" Width	44" Width	44" Width	48" Width
	KM-350M KM-520M KM-660M F-450M F-801M F-1002M	KMD-410M [†] KMS-822M FD-650M-C [†] FD-1002M-C	KM-901M KM-1340M KM-1601M KML Series F-1501M F-2001	KMD-460M [†] KMD-530M [†] KMD-860M [†] KMS-1402M [†] KMS-2000M [†]	2 KM-350M 2 KM-520M 2 KM-660M IM-500S 2 F-450M 2 F-801M 2 F-1002M	2 KMD-410M 2 FD-650M-C 2 FD-1002M-C	KM-1301S KM-1400S KM-1601S KM-1900S KM-2200S KM-2600S
Bins B-300SF DB-130H	— <i>(DB-130H - KMD only)</i>	NEED HS-5424 HS-2153 <i>(KMD-410 on B-300 only)</i>	N/A	N/A	N/A	N/A	N/A
Bins B-250SF B-500SF	NEED HS-2033	NEED HS-2033 & HS-2129	—	NEED HS-2129	N/A	N/A	N/A
Bins B-700SF	NEED HS-2035	NEED HS-2035 & HS-2130	NEED HS-2034	NEED HS-2130 & HS-2034	—	NEED HS-2130 <i>(KMD-410 does not apply)</i>	N/A
Bins B-800SF	NEED HS-2035 & HS-2032	NEED HS-2035, HS-2032 & HS-2131	NEED HS-2034 & HS-2032	NEED HS-2131, HS-2034 & 2032	NEED HS-2032	NEED HS-2032 & HS-2131	—
Bins B-900SF	NEED HS-2035 & HS-2033	NEED HS-2035, HS-2033 & HS-2132	NEED HS-2035	NEED HS-2132 & HS-2035	NEED HS-2033	NEED HS-2033 & HS-2132	NEED HS-2032
Bins DB-200H DM-200B	NEED HS-2036 <i>(KM units only)</i>	N/A	— <i>(KML only)</i>	N/A	N/A	N/A	N/A



Ice Drop Area



B Bins



BD Bins



Bin Flanged Legs:
B/BD-300SF



Bin Legs:
B-250SF, B/BD-500SF
B-700SF, B-800SF
B-900SF

— No top kit necessary | N/A Combination of ice maker and bin is not possible

BD Bins fit 24" - 24 1/2" deep ice machine without Top Kit extension.

[†] **BD-300SF:** KMD-410M, KMS-822M, FD-650M-C, FD-1002M-C

[†] **BD-500SF:** KMD-460M, KMD-530, KMD-860

* Any KMS or FD on bin need Top Kit Extension:

- HS-2129 - for use with B-500 bins
- HS-2131 - for use with B-800 bins
- HS-2130 - for use with B-700 bins
- HS-2132 - for use with B-900 bins

Top Kits:

- HS-2032 - 4" ABS Top Kit
- HS-2033 - 8" ABS Top Kit
- HS-2034 - 14" ABS Top Kit
- HS-2035 - 22" ABS Top Kit
- HS-2036 - (2) 4" ABS Top Kits
- HS-2066 - Seismic Kit for SD 500 Stands
- HS-2071 - Anchored Leg Kit SD 500 Stands
- HS-2111 - 11.3" x 26.2" Stainless Cover/Separator
- HS-2148 - 30" x 3.1" Stainless Cover
- HS-2153 - KMD-410 on B-300 bin
- HS-2160 - 2 KM-901M



Jefferson Middle School

11/29/2023

ITEM# 12 - ICE BIN (1 EA REQ'D)

Hoshizaki B-500SF

(or District Approved equal)

Included with Ice Maker (Item #11). See Item #11 for more information.



Jefferson Middle School

11/29/2023

ITEM# 13 - WATER FILTRATION SYSTEM, FOR MULTIPLE APPLICATIONS (1 EA REQ'D)

3M Purification HF160-CLXS

(or District Approved equal)

(5626005) 3M™ Water Filtration System, reduces sediment, chloramine (6,300 gallons at 1.67 gpm), chlorine taste and odor (35,000 gallons at 3.5 gpm), cyst, bacteria, and scale



Spec # _____

Quantity _____

3M™ Water Filtration Products

3M™ High Flow CLX Series Filter System for Hot Beverage Applications

The 3M™ High Flow CLX Series filtration systems for Hot Beverage Applications reduce both chlorine and chloramine in a compact design. They provide consistent high-capacity and high-quality water by reducing particulate, chloramine, chlorine taste and odor, cyst¹, and bacteria² with built-in scale³ inhibition for your hot beverage application needs. They feature our proprietary Integrated Membrane Pre-Activated Carbon Technology (“I.M.P.A.C.T.”) filtration media combining a membrane with a premium activated carbon block to help provide excellent throughput and cartridge life.

Chlorine and chloramine are known to add off-taste or odor to your water-based beverages and can also cause corrosion and damage to equipment using water such as steamers, combi-ovens, coffee and tea brewers, and espresso machines. The built-in scale³ inhibition can help to prevent the potentially harmful effects of scale build-up on equipment.

Product Benefits:

- High-capacity chlorine and chloramine filtration in ONE compact design
- Expansive breadth of product offerings that can accommodate most applications
- Featuring Integrated Membrane Pre-Activated Carbon Technology (“I.M.P.A.C.T.”) technology with multi-stage filtration reducing the need for a separate prefilter
- Built-in scale³ inhibition helping prevent the potentially harmful effects of scale build-up on equipment
- Sanitary Quick Change (SQC) encapsulated cartridge design eliminates media contamination during change-outs with a ¼ turn
- Direct or easily-adaptable connections to existing plumbing lines with ½" FNPT horizontal inlet and outlet ports
- Certified to NSF/ANSI 42 for structural integrity and materials safety
- Certified to NSF/ANSI 42 for chlorine taste and odor, chloramine, and particulate reduction
- Certified to NSF/ANSI 53 for cyst¹ reduction
- WQA certified to WQA/ASPE/ANSI S-803 for Sustainability Attributes
- Components certified by WQA to NSF 372 for low lead compliance



HF160-CLXS

¹ Based on testing using *Cryptosporidium parvum* oocysts

² As tested and verified with E. Coli ATCC (11229) by manufacturer's laboratory.

³ As tested and verified by manufacturer's laboratory

3M™ High Flow CLX Series Filter System for Hot Beverage Applications

Product Specifications:

- Temperature: 40°–100°F (4.4°–37.8°C)
- Pressure: 25–125 psi (172–862 kPa)
- Shipping weight: Refer to price book
- Operating weight: Contact factory

Model Number	3M ID	JDE ID	Micron Ratings	Flow Rate (gpm/lpm)	Capacity (gal./lit)	Claims
HF160-CLXS	70020344365	5626005	0.2 micron	1.67 gpm/Chloramine 3.50 gpm/CTO	6,300 gals./ chloramine (23,848 lit.)	Particulate, chloramine, chlorine taste and odor, cyst ¹ , bacteria ² , scale ³
				6.32 lpm/Chloramine 13.25 lpm/CTO	35,000 gals./ chlorine (132,489 lit.)	

System/Cartridge Dimensions:

Model Number	3M ID	JDE ID	Shipping Dimensions	System/Cartridge Weight	Case Qty
HF160-CLXS	70020344365	5626005	5.06"L x 4.375"W x 15.875"H (12.85cm x 11.11cm x 40.32cm)	4.21 lbs.	1

¹ Based on testing using *Cryptosporidium parvum* oocysts

² As tested and verified with E. Coli ATCC (11229) by manufacturers laboratory.

³ As tested and verified by manufacturer's laboratory

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

Product Selection and Use: Many factors can affect whether a 3M product is appropriate for a particular application and how it performs, including local water and plumbing conditions. Customer is solely responsible for determining whether a 3M product meets customer's specific application requirements, including testing incoming source water quality and comparing it to the product's capabilities described in the Performance Data Sheet. Failure to properly evaluate, select, use or maintain a 3M product, or to meet applicable regulations or instructions, may result in personal injury from exposure to contaminants AND/OR property damage due to water leakage or flooding.

Limited Warranty, Limited Remedy, and Disclaimer: 3M warrants that this product (excluding filter cartridge or filter membrane) will be free from defects in material and manufacture for the period of one (1) year from the date of purchase. No warranty is given as to the service life of any filter cartridge or membrane as it will vary with local water conditions and water consumption. Except as required by law, 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. This warranty does not cover failures resulting from misuse, alterations, failure to follow instructions or damage not caused by 3M. This warranty does not cover labor. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

This warranty gives you specific legal rights, and you may have other rights which may vary from state to state, or country to country. For warranty questions or service, please call 866.990.9785. Proof of purchase must accompany a warranty claim.

Limitation of Liability: Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

Spec # _____

Quantity _____

Model # _____

Part # _____

Important Installation Tips:

These installation tips are for informational purposes only and are not intended to be used as actual installation instructions.

⚠ WARNING Read entire product manual and Performance Data Sheet. Failure to follow all product instructions could cause personal injury from exposure to contaminants AND/OR property damage due to water leakage or flooding.

- For cold water use only. Not for residential applications.
- System installation and use must comply with all state and local regulations and plumbing codes.
- Filter cartridge must be replaced at the required intervals as stated on the product label and manual.
- If your water supply pressure is higher than 80 psi, you must install a pressure reducing valve before installing system.
- DO NOT use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- The 3M™ High Flow CLX Series Water Filtration Systems have been tested and certified to NSF/ANSI standard 42, 53, and CSA B483.1 for the reduction of the substances listed in the system Performance Data Sheet. The system does not reduce all substances that could be present in your water.



3M Purification Inc.
3M Separation and Purification Sciences Division
400 Research Parkway
Meriden, CT 06450 U.S.A.

Toll Free 1-866-990-9785
Worldwide 1-203-237-5541
Web www.3M.com/waterquality



System tested and certified by NSF International against NSF/ANSI 42 and 53 for the reduction of the claims specified on the Performance Data Sheet and against CSA B483.1.



This model is certified by the Water Quality Association to WQA/ASPE/ANSI S-803 for Sustainability.

3M is a trademark of 3M Company. NSF is a trademark of NSF International. WQA is a trademark of Water Quality Association.
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70-2016-0344-9 REV 1121
Please recycle. Printed in U.S.A.



Jefferson Middle School

11/29/2023

ITEM# 14 - DRY STORAGE SHELVING (1 LT REQ'D)

Cambro

(or District Approved equal)

Eight (8) units of 5-tier mobile shelving units, plastic type. Verify size and quantity with field conditions.

ACCESSORIES

Mfr	Qty	Model	Spec
Cambro	4	EXMU244270V5480	Camshelving® Elements XTRA Mobile Unit, 24"W x 42"L x 70-1/4"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (5) vented reinforced polypropylene shelf plates with Camguard® antimicrobial protection, (4) composite posts, pre-assembled post connectors & wedges, (10) Universal Traverses & (5) bags of 4 dovetails (10 left, 10 right), (4) premium swivel casters with total locking brake, 750 lbs. max capacity, speckled gray, NSF
Cambro	3	EXMU244870V5480	Camshelving® Elements XTRA Mobile Unit, 24"W x 48"L x 70-1/4"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (5) vented reinforced polypropylene shelf plates with Camguard® antimicrobial protection, (4) composite posts, pre-assembled post connectors & wedges, (10) Universal Traverses & (5) bags of 4 dovetails (10 left, 10 right), (4) premium swivel casters with total locking brake, 750 lbs. max capacity, speckled gray, NSF
Cambro	1	EXMU245470V5480	Camshelving® Elements XTRA Mobile Unit, 24"W x 54"L x 70-1/4"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (5) vented reinforced polypropylene shelf plates with Camguard® antimicrobial protection, (4) composite posts, pre-assembled post connectors & wedges, (10) Universal Traverses & (5) bags of 4 dovetails (10 left, 10 right), (4) premium swivel casters with total locking brake, 750 lbs. max capacity, speckled gray, NSF



Jefferson Middle School

11/29/2023

ITEM# 15 - POT/PAN STORAGE SHELVING (1 LT REQ'D)

Cambro

(or District Approved equal)

Six (6) units of 5-tier mobile shelving units, plastic type. Verify size and quantity with field conditions.

ACCESSORIES

Mfr	Qty	Model	Spec
Cambro	1	EXMU243670V5480	Camshelving® Elements XTRA Mobile Unit, 24"W x 36"L x 70-1/4"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (5) vented reinforced polypropylene shelf plates with Camguard® antimicrobial protection, (4) composite posts, pre-assembled post connectors & wedges, (10) Universal Traverses & (5) bags of 4 dovetails (10 left, 10 right), (4) premium swivel casters with total locking brake, speckled gray, NSF
Cambro	5	EXMU245470V5480	Camshelving® Elements XTRA Mobile Unit, 24"W x 54"L x 70-1/4"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (5) vented reinforced polypropylene shelf plates with Camguard® antimicrobial protection, (4) composite posts, pre-assembled post connectors & wedges, (10) Universal Traverses & (5) bags of 4 dovetails (10 left, 10 right), (4) premium swivel casters with total locking brake, 750 lbs. max capacity, speckled gray, NSF



Jefferson Middle School

11/29/2023

ITEM# 16 - 3-COMPARTMENT SINK (1 EA REQ'D)

CUSTOM SS

Custom fabricated, 14-gauge stainless steel 3-compartment sink with minimum (3) 20" x 28" x 14" deep basins w/ integral drainboard each side sloped to sink, and 8" high backsplash. Rear and cross rail supports to be fully welded to 1-5/8" diameter stainless steel tubular legs with adjustable bullet feet. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.

ACCESSORIES

Mfr	Qty	Model	Spec
CUSTOM SS	1		Furnish with (3) lever waste valve (T&S model #B-3952, or equivalent)
T&S Brass	3	B-3952	(or District Approved equal) Waste Valve, twist handle, 3-1/2" sink opening, 2" drain outlet



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

B-3952

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

This Space for Architect/Engineer Approval

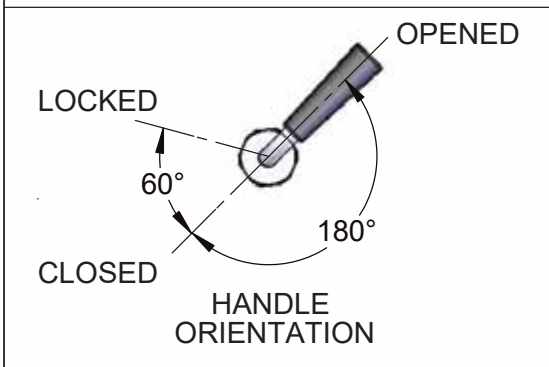
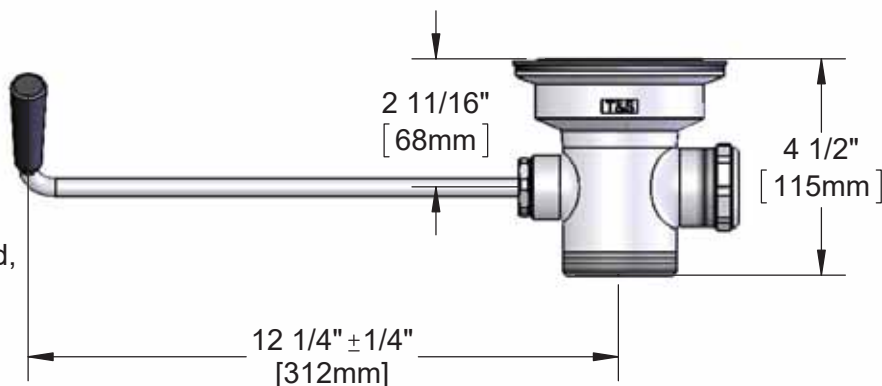
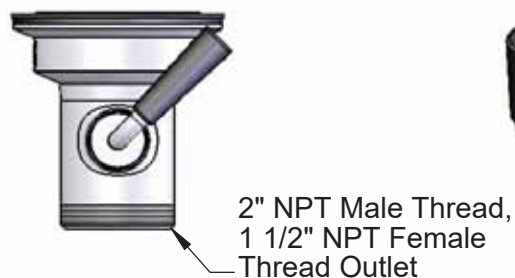
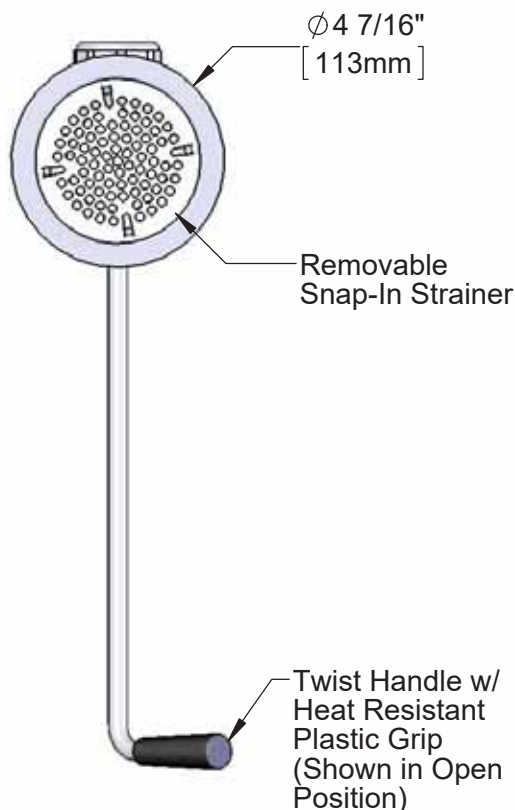
Job Name _____ Date _____

Model Specified _____ Quantity _____

Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____



Product Specifications:
 Rotary Waste Valve w/ Twist Handle, 3 1/2" Sink Opening, 2" NPT Male Thread & 1 1/2" Female Thread Outlet

Product Compliance:
 ASME A112.18.2 / CSA B125.2



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

B-3952

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

ITEM NO.	SALES NO.	DESCRIPTION
1	010389-45	O-Ring, Plunger
2	010390-45	Ferrule, Coupling Nut
3	010391-45	Nut, Coupling For Twist Drain
4	010382-45	Gasket, 3 1/2" Face Flange
5	010384-45	Flange, 3 1/2" Face
6	010386-45	Strainer, 3 1/2" Snap-in Removable
7	010388-45	Plunger, Lever and Twist Drain
8	010393-45	Rotary Waste Valve Twist Handle



Product Specifications:
Rotary Waste Valve w/ Twist Handle, 3 1/2" Sink Opening, 2" NPT Male Thread & 1 1/2" Female Thread Outlet

Product Compliance:
ASME A112.18.2 / CSA B125.2



Jefferson Middle School

11/29/2023

ITEM# 17 - PRE-RINSE FAUCET ASSEMBLY (1 EA REQ'D)

T&S Brass B-0133-B08C

(or District Approved equal)

EasyInstall Pre-Rinse Unit, 8" wall mount, adjustable centers, spring action gooseneck, quarter-turn Eterna cartridges with spring checks, lever handles with color coded indexes, EasyInstall 18" riser, 44" flexible stainless steel hose, 0.65 GPM JeTSpray spray valve, 6" adjustable wall bracket, 1/2" NPT, low lead, NSF, cCSAus

ACCESSORIES

Mfr	Qty	Model	Spec
T&S Brass	1	B-TEE-EZK	EasyInstall Tee Assembly, chrome-plated
T&S Brass	1	B-0230-K	Installation Kit, (2) 1/2" NPT nipples, lock nuts & washers, (2) short "EII" 1/2" NPT female x male
T&S Brass	1	B-0155-LN	Add-on Faucet, less nozzle, for Pre-Rinse Units
T&S Brass	1	069X	Nozzle, swivel, 24" long, double joint, stream regulator outlet, low-lead, chrome-plated brass, NSF (deduct cost of standard nozzle)



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

B-0133-B08C

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

This Space for Architect/Engineer Approval

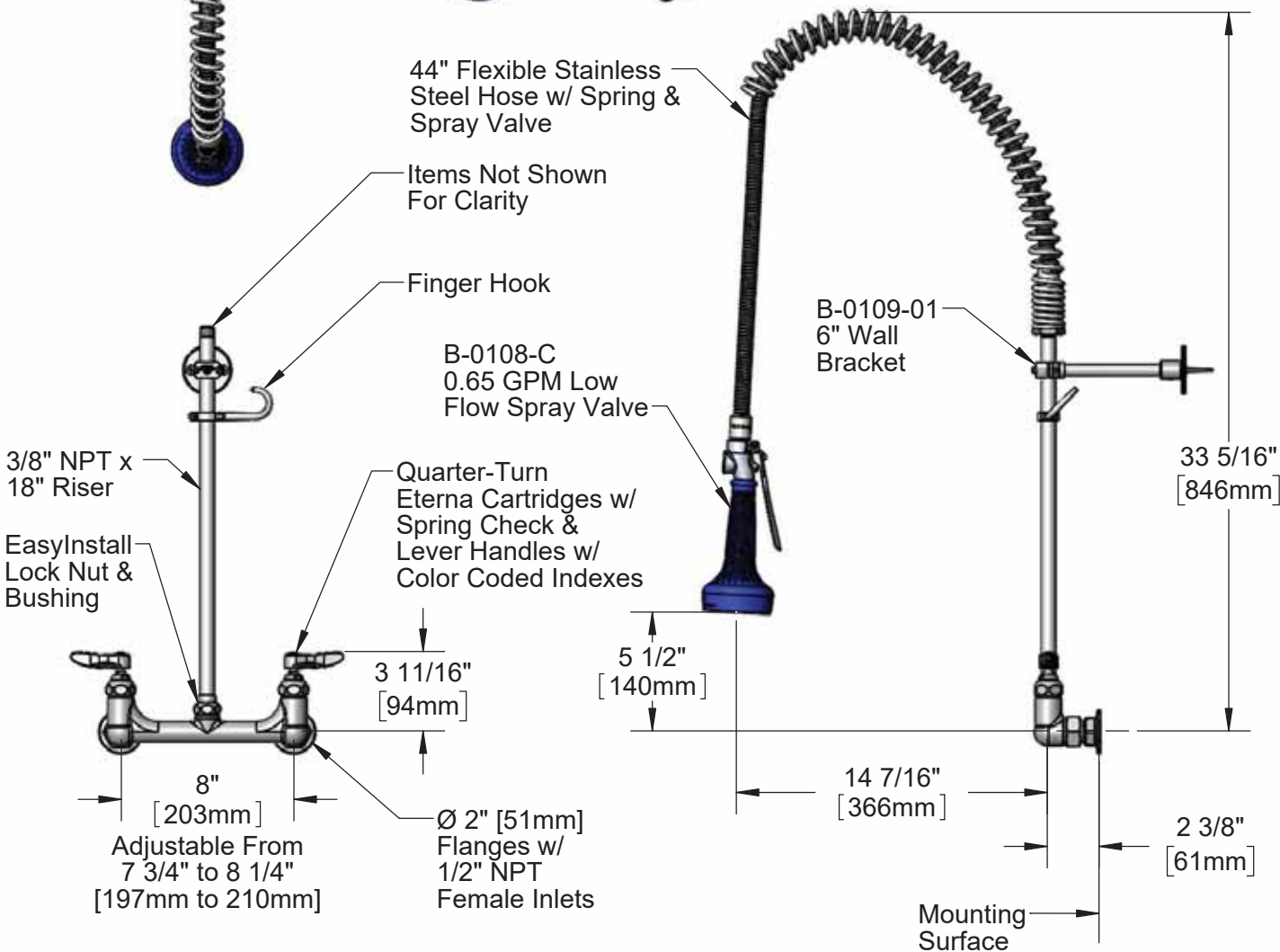
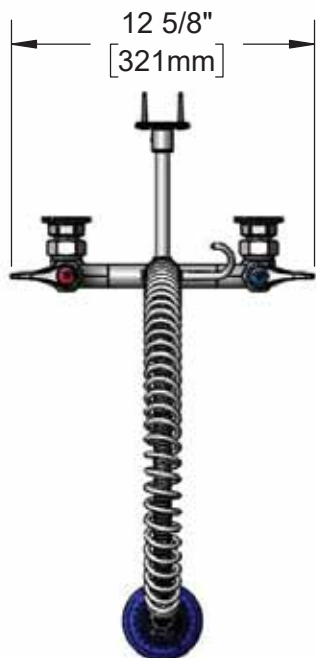
Job Name _____ Date _____

Model Specified _____ Quantity _____

Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____



Product Specifications:

Pre-Rinse Unit: EasyInstall 8" Wall Mount Mixing Faucet, Quarter-Turn Eterna Cartridges w/ Spring Checks, Lever Handles, 44" Flexible Stainless Steel Hose, 0.65 GPM Low Flow Spray Valve, 6" Wall Bracket & 1/2" NPT Female Inlets

Product Compliance:

ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)
2019 DOE PRSV - Class I



T&S BRASS AND BRONZE WORKS, INC.

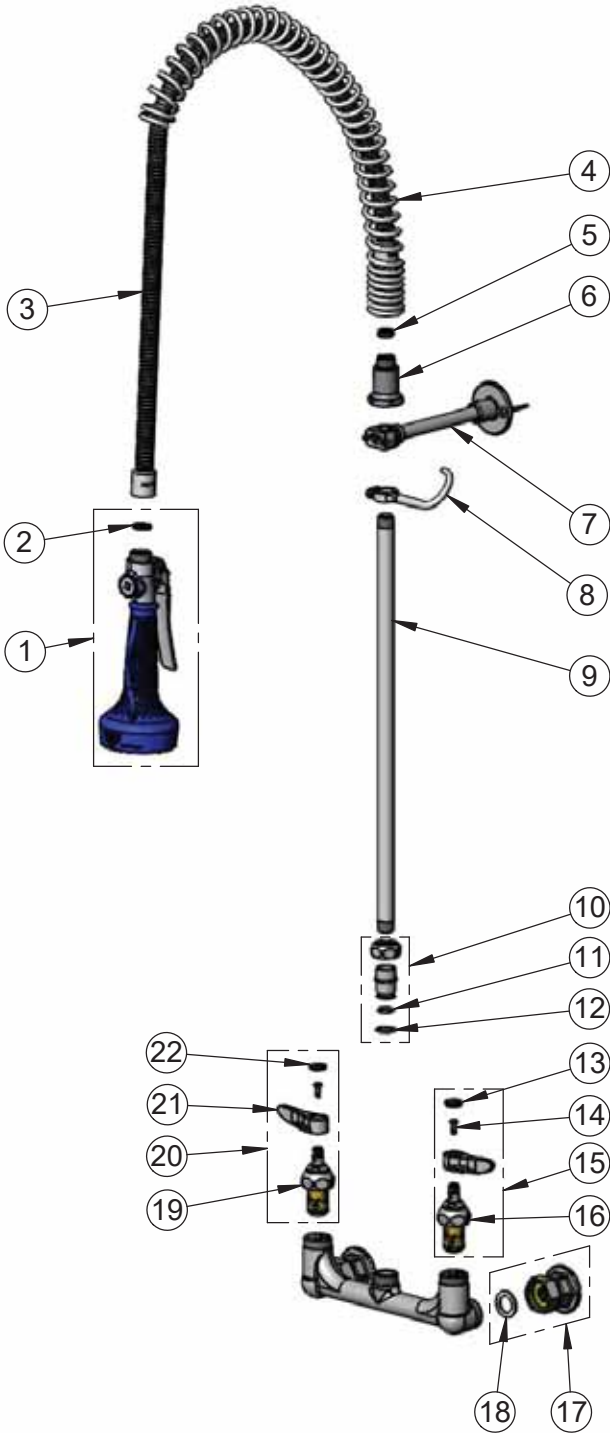
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Travelers Rest, SC 29690

Model No.

B-0133-B08C

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



ITEM NO.	SALES NO.	DESCRIPTION
1	B-0108-C	0.65 GPM Low Flow Spray Valve w/ Ergo-Grip
2	001014-45	Washer, B-0100 Hose Barrel
3	B-0044-H2A	44" Flexible Stainless Steel Hose, Less Handle
4	000888-45	EasyInstall Overhead Spring
5	010476-45	#27 Washer
6	000821-40	Spring Body
7	B-0109-01	6" Wall Bracket
8	004R	Finger Hook
9	000369-40	3/8" NPT x 18" Riser
10	EZ-K	EasyInstall Kit
11	001065-45	O-Ring
12	014200-45	Star Washer, Anti-Rotation
13	018506-19NS	Blue Button Index, Press-in
14	000925-45	Lab Handle Screw
15	002711-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, Handle, Blue Index & Screw, LTC
16	012442-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, LTC
17	00AA	1/2" NPT Female Eccentric Flange
18	001019-45	Coupling Nut Washer
19	012443-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, RTC
20	002712-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, Handle, Red Index & Screw, RTC
21	001638-45NS	Lever Handle (New Style)
22	001193-19NS	Red Button Index, Press-in

Product Specifications:

Pre-Rinse Unit: EasyInstall 8" Wall Mount Mixing Faucet, Quarter-Turn Eterna Cartridges w/ Spring Checks, Lever Handles, 44" Flexible Stainless Steel Hose, 0.65 GPM Low Flow Spray Valve, 6" Wall Bracket & 1/2" NPT Female Inlets

Product Compliance:

ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)
2019 DOE PRSV - Class I



T&S BRASS AND BRONZE WORKS, INC.
 2 Saddleback Cove / P.O. Box 1088
 Travelers Rest, SC 29690

Model No.

B-TEE-EZK

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

This Space for Architect/Engineer Approval

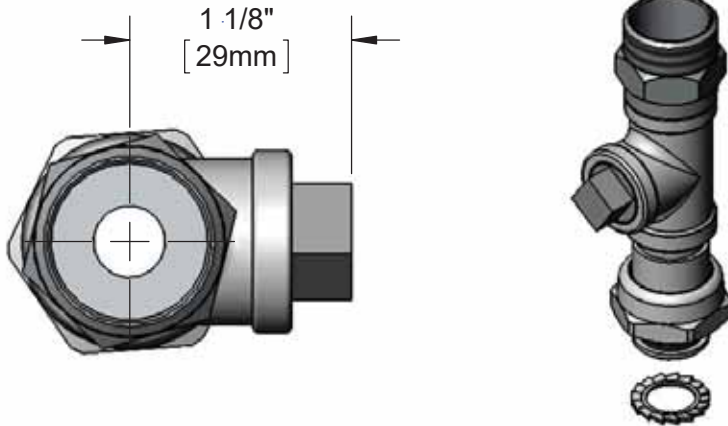
Job Name _____ Date _____

Model Specified _____ Quantity _____

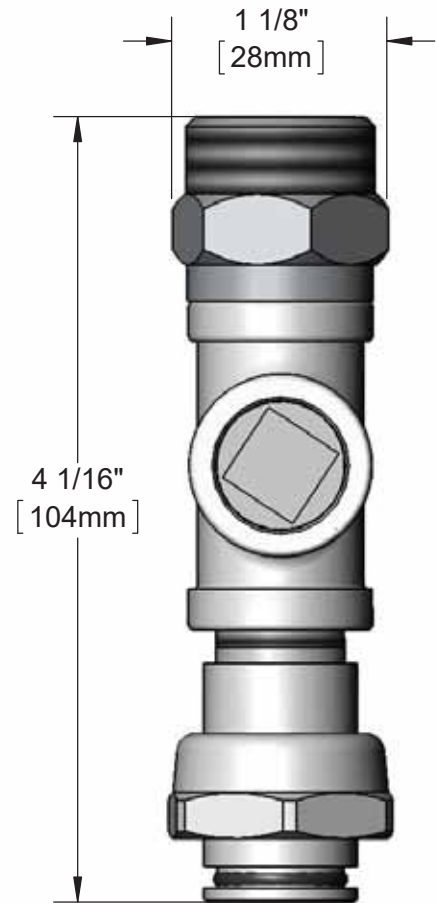
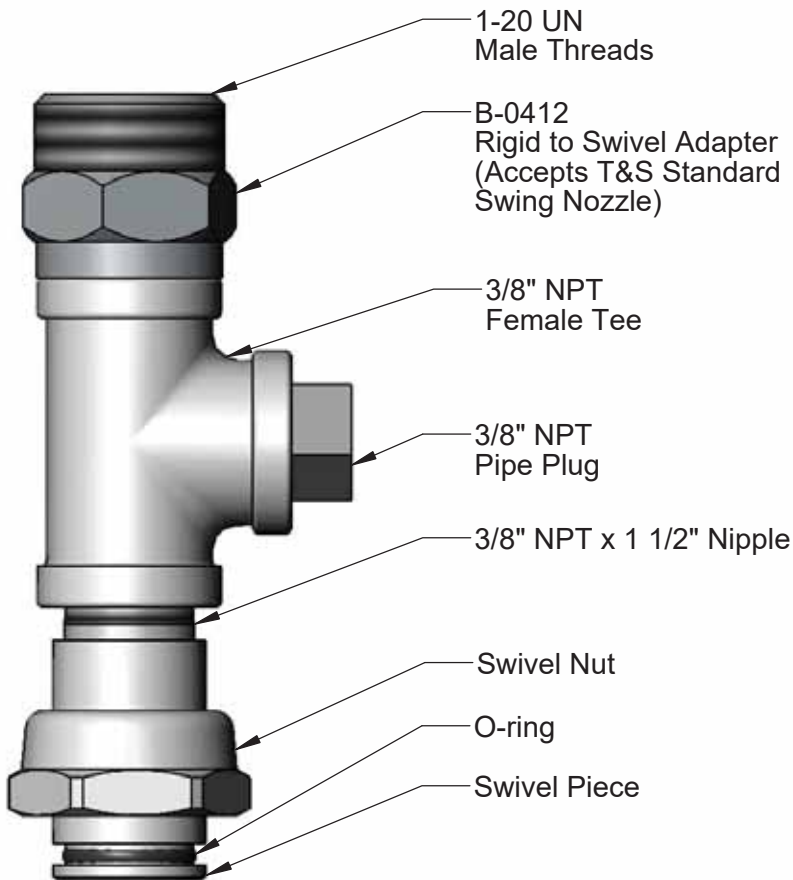
Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____



Note: Swivel to Rigid Star Washer Included



Product Specifications:

Swivel Tee Assembly (Chrome Plated)

Product Compliance:

ASME A112.18.1 / CSA B125.1
 NSF 61 - Section 9
 NSF 372 (Low Lead Content)



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

B-0230-K

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

This Space for Architect/Engineer Approval

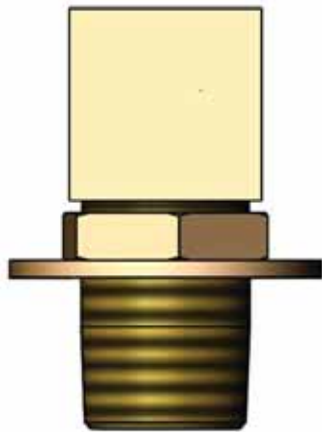
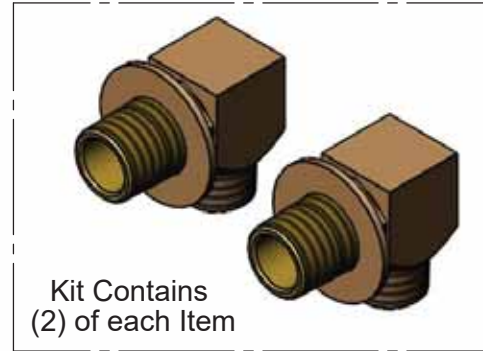
Job Name _____ Date _____

Model Specified _____ Quantity _____

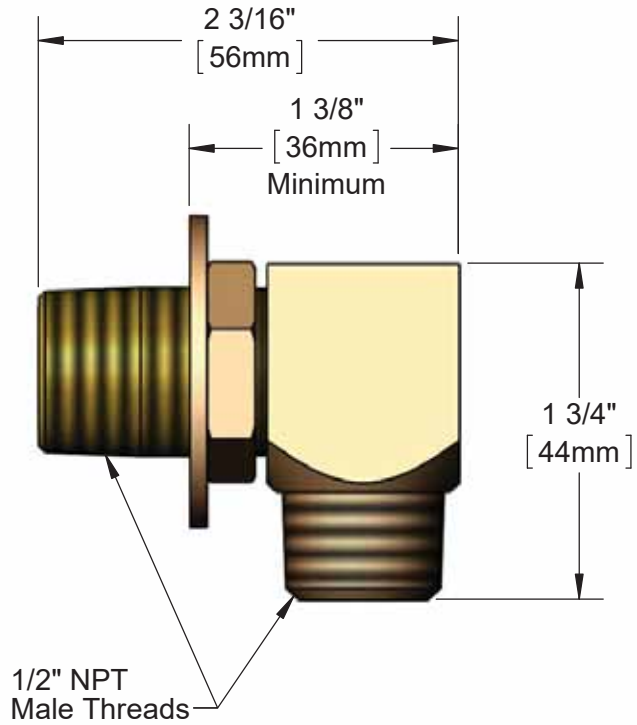
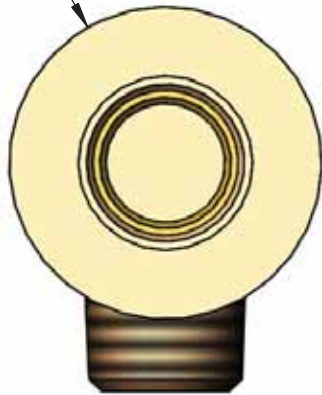
Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____



Ø 1 5/8"
[41mm]



Product Specifications:
1/2" NPT Male Elbow Kit w/ Lock Nut & Washer

Product Compliance:
ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

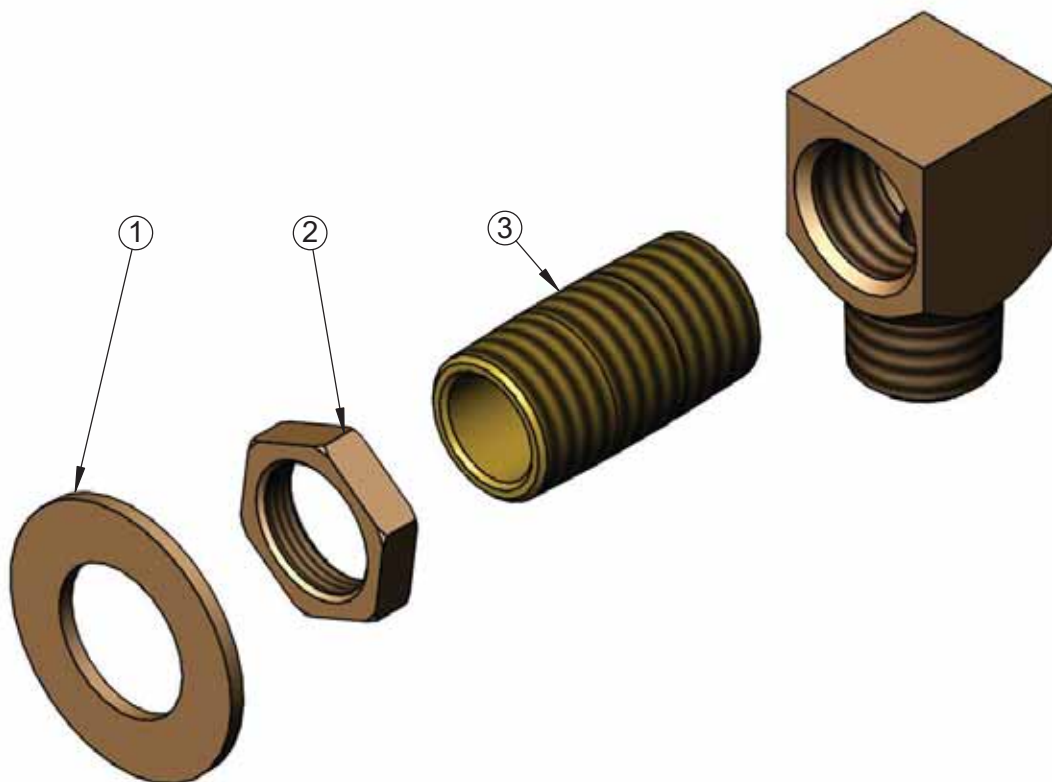
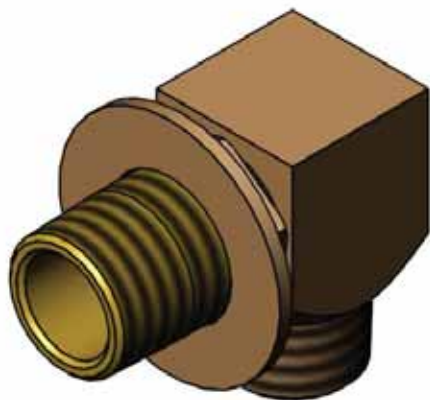
Model No.

B-0230-K

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

ITEM NO.	SALES NO.	DESCRIPTION
1	000999-45	Brass Lock Washer
2	002954-45	Shank Lock Nut
3	013357-20	1/2" NPT x 1-5/8" Lg. Close Nipple



Product Specifications:
1/2" NPT Male Elbow Kit w/ Lock Nut & Washer

Product Compliance:
ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)



T&S BRASS AND BRONZE WORKS, INC.
 2 Saddleback Cove / P.O. Box 1088
 Travelers Rest, SC 29690

Model No.
B-0155-LN

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



ADA Compliant

This Space for Architect/Engineer Approval

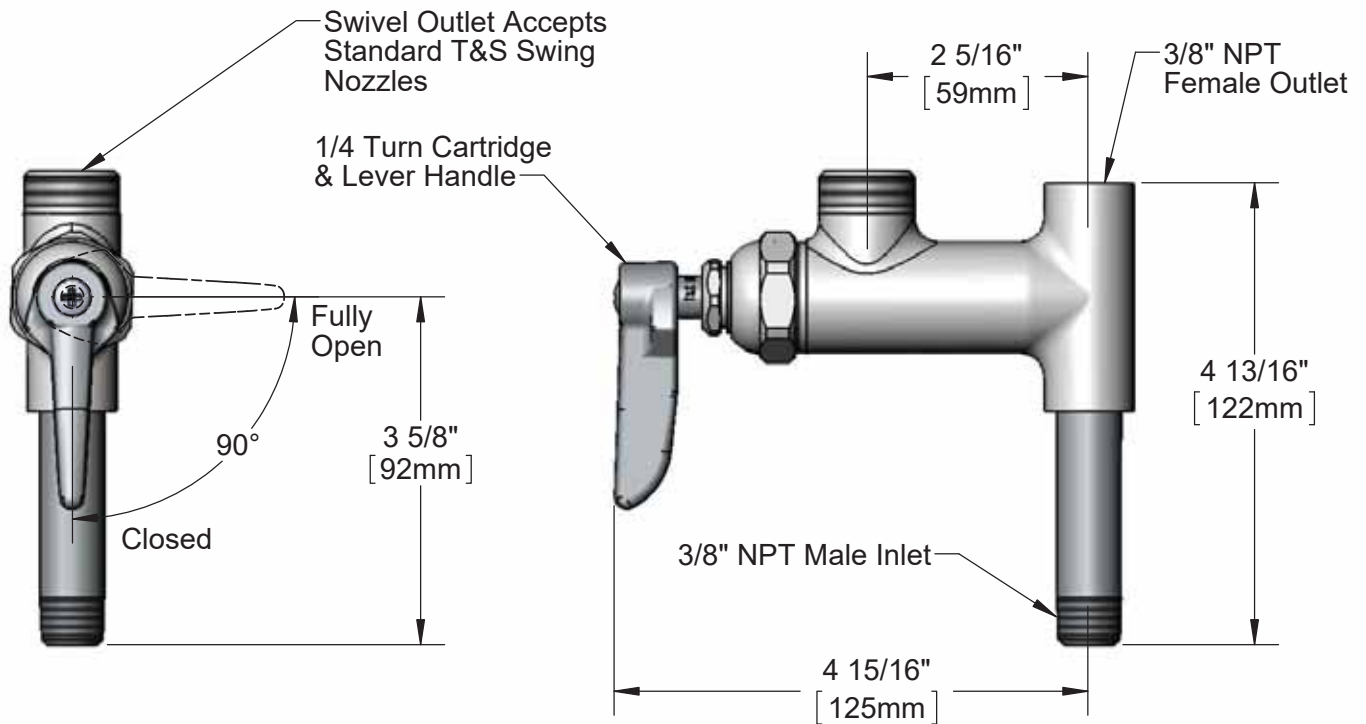
Job Name _____ Date _____

Model Specified _____ Quantity _____

Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____



Notes:

1. Add-On Faucet is an Addition to Pre-Rinse Units and is Installed in Outlets of Base Mixing Faucets of Units Before Fitting Riser Pipes.
2. Lever Handle Controls Water On-Off Thru Nozzle Only. Pressure is Always "On" in Riser Pipe (Controlled by Base Mixing Faucet).

Product Specifications:

Add-On Faucet w/ 1/4 Turn Eterna Cartridge & Lever Handle (Less Nozzle)

Product Compliance:

ASME A112.18.1 / CSA B125.1
 NSF 61 - Section 9
 NSF 372 (Low Lead Content)
 ANSI A117.1 (ADA)



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

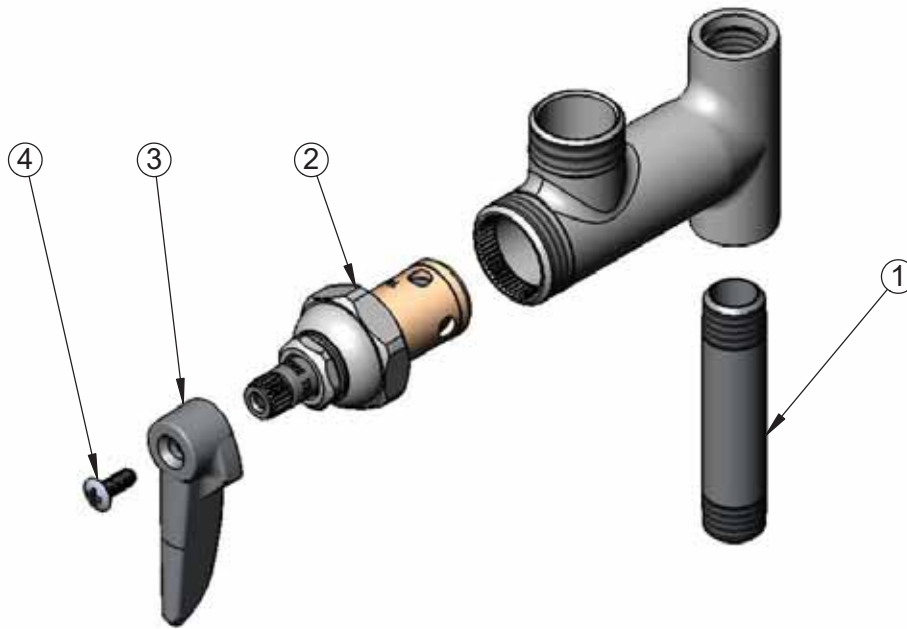
Model No.

B-0155-LN

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

ITEM NO.	SALES NO.	DESCRIPTION
1	000358-40	Nipple, 3/8" NPT x 3"
2	005960-40QT	1/4 Turn Eterna Cartridge, RTC
3	001638-45	Lever Handle
4	000922-45	Lever Handle Screw



Product Specifications:

Add-On Faucet w/ 1/4 Turn Eterna Cartridge & Lever Handle
(Less Nozzle)

Product Compliance:

ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)
ANSI A117.1 (ADA)



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

069X

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

This Space for Architect/Engineer Approval

Job Name _____ Date _____

Model Specified _____ Quantity _____

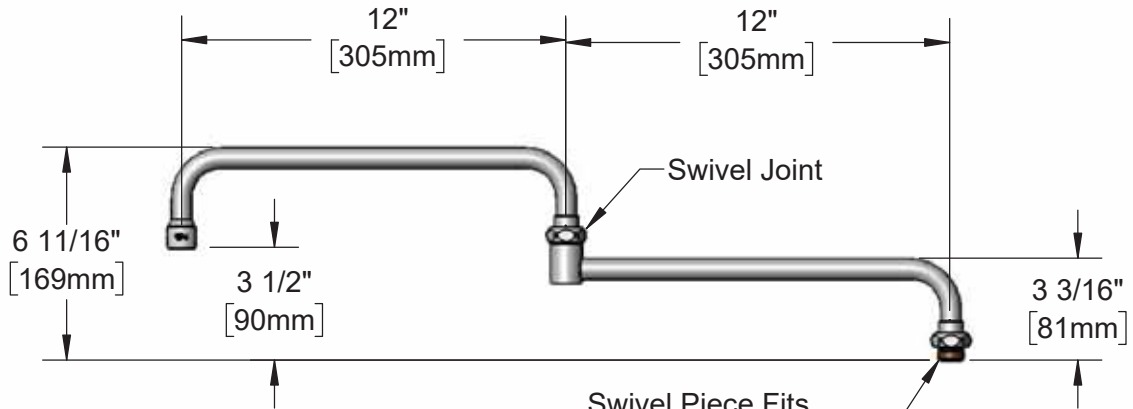
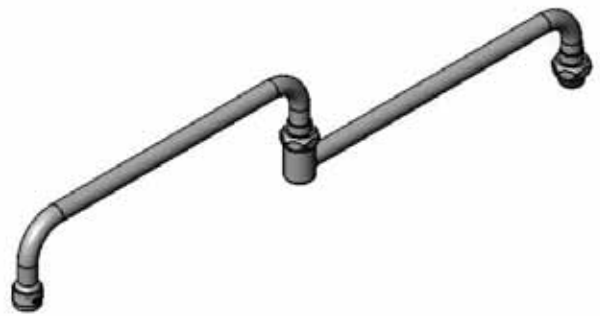
Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____



B-PT
Stream
Regulator
Outlet



Swivel Joint

Swivel Piece Fits
All Standard
T&S Swivel Outlets

Product Specifications:
24" Double Joint Swing Nozzle (12" Back Section, 12" Front Section)

Product Compliance:
ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

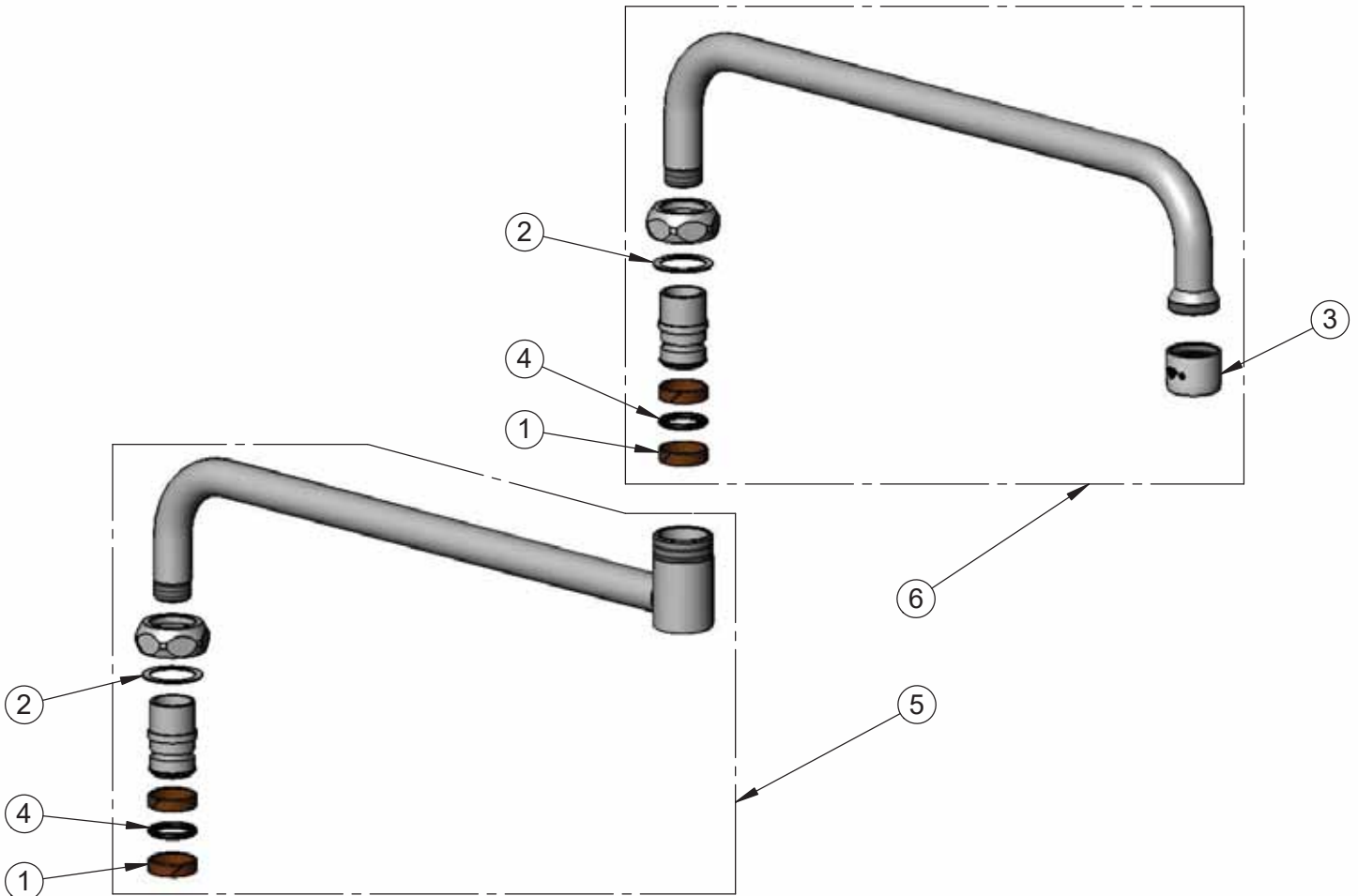
Model No.

069X

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

ITEM NO.	SALES NO.	DESCRIPTION
1	011429-45	Swivel Sleeves (2)
2	009538-45	Swivel Washer
3	B-PT	Stream Regulator Outlet
4	001074-45	O-Ring
5	002871-40	12" Back Section
6	006186-40	12" Front Section



Product Specifications:
24" Double Joint Swing Nozzle (12" Back Section, 12" Front Section)

Product Compliance:
ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)



Jefferson Middle School

11/29/2023

ITEM# 18 - WALL SHELVES (2 EA REQ'D)

CUSTOM SS

Custom fabricated stainless steel wall shelves, minimum 16-gauge. To include: stainless steel knife brackets, 48" on center maximum. Fabricate per floor plan and detail sheets. Secure to wall with stainless steel pan head screws. Provide shop drawings for approval.



Jefferson Middle School

11/29/2023

ITEM# 19 - POT RACK (1 EA REQ'D)

CUSTOM SS

Custom fabricated stainless steel pot rack with slip-on stainless steel pot hooks, minimum every 6". Constructed of 2" X 1/4" stainless steel flat bar with 14 gauge stainless steel knife brackets, maximum 48" on center. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.



Jefferson Middle School

11/29/2023

ITEM# 20 - WASTE COLLECTOR (1 EA REQ'D)

Salvajor S914

(or District Approved equal)

Scrap Collector™, scrapping, pre-flushing & collecting system (widely accepted in areas where disposers are restricted), NEMA 4 HYDROLOGIC® control panel with patented operator sensor, two water saving modes (timed run & auto start/stop), safety line disconnect, LCD readout, salvage basin & silverware trap, scrap basket, 3/4 HP corrosion-resistant pump, pump intake screen, stainless steel construction, UL, CSA, CE, NSF

ACCESSORIES

Mfr	Qty	Model	Spec
Salvajor	1		Collector top is available to ship to the fabricator in advance of unit (additional shipping charges will apply). Please provide instructions on order
Salvajor	1		115v/60/1-ph, 11.0 amps
Salvajor	1	980104	Mounting bracket for RSS, MSS, MSS-LD, MRSS, MRSS-LD
Salvajor	1	992013	Additional scrap basket
Salvajor	1	980211	Seismic Flange for Support Leg (3 included)

SALVAJOR® Scrap Collector™

Job: _____ **Item No.:** _____
Model S914



Job: _____ **Item No.:** _____
Model P914



A Scrapping, Pre-Flushing and Food Waste Collecting System

- Standard Scrap Basin, Model S914
- Pot/Pan Scrap Basin, Model P914


Widely accepted in areas that restrict the use of food waste disposers.

An Economical Pulper Alternative, the Collector washes soluble food waste harmlessly through the sewer, reducing bulk food waste by as much as 50% and weight by as much as 80%.

Recirculated Water used for pre-flushing typically reduces water and sewer costs dramatically. The Collector consumes only 2 gallons of new water per minute while the pre-flushing water plume recirculates at a 30-gallon rate.

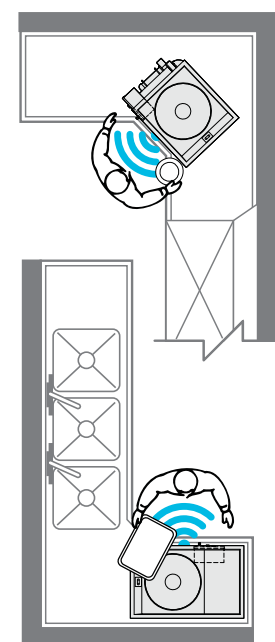
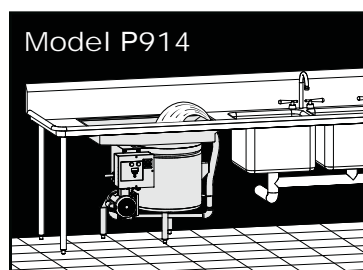
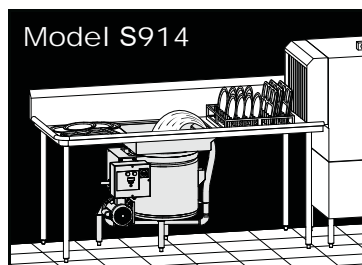
Scrapping Speed is more than doubled compared to an overhead pre-rinse since the worker's hands are free for scrapping. The Collector lets you keep up with small to medium size conveyor dishmachines.

Problem Dishes, Trays and Cookware with dried or baked-on food need much less hand work. They can be soaked in the Collector basin while scrapping continues on other dishes.

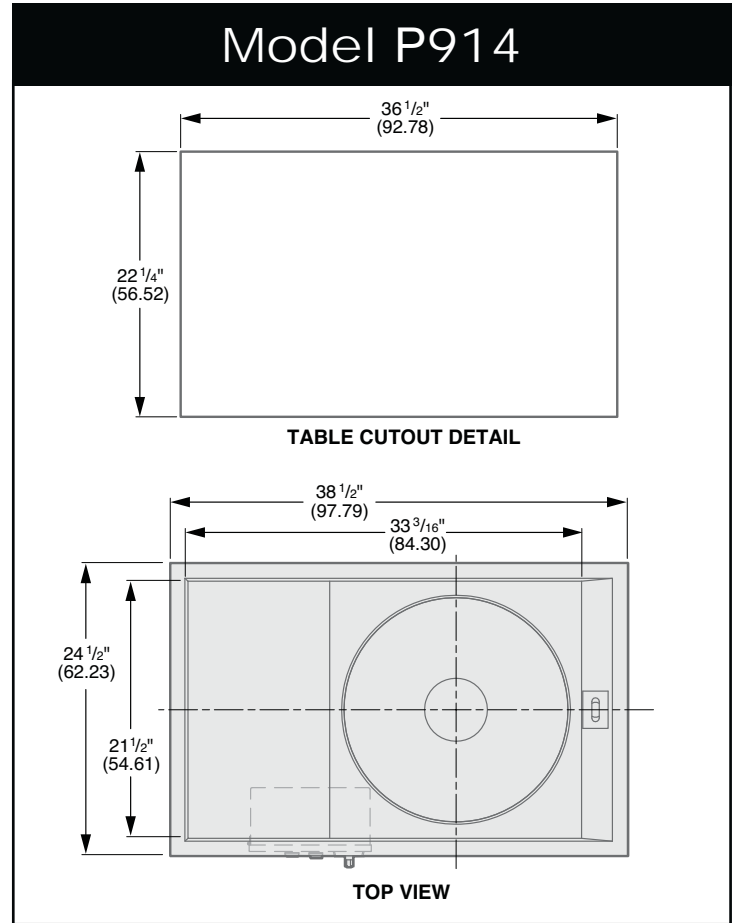
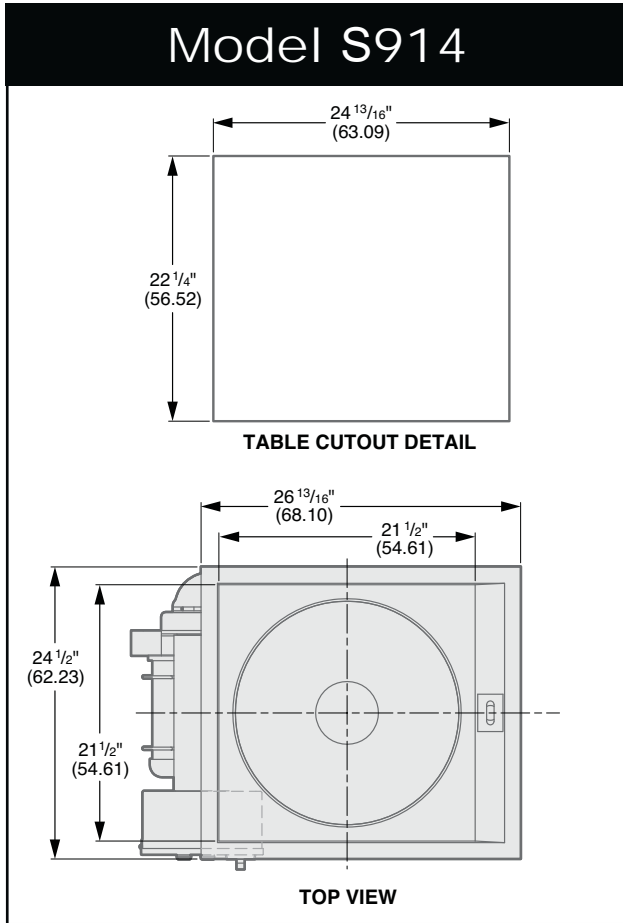
 HydroLogic Control Panel saves water and energy. Includes patented operator sensing technology with two water saving modes.

U.S. Pat. No. 7,815,134

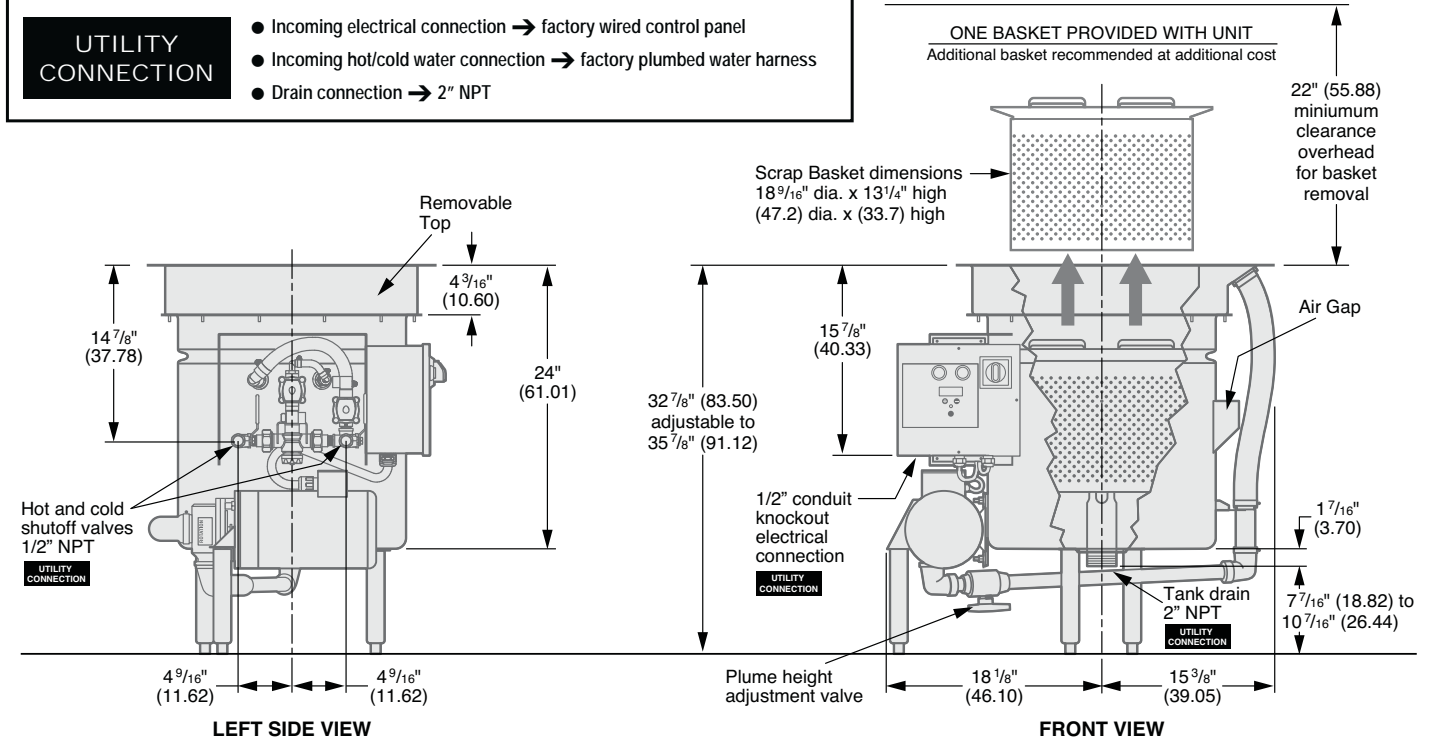
TYPICAL INSTALLATIONS



Scrap Collector™ Model S914 Pot/Pan Scrap Collector™ Model P914



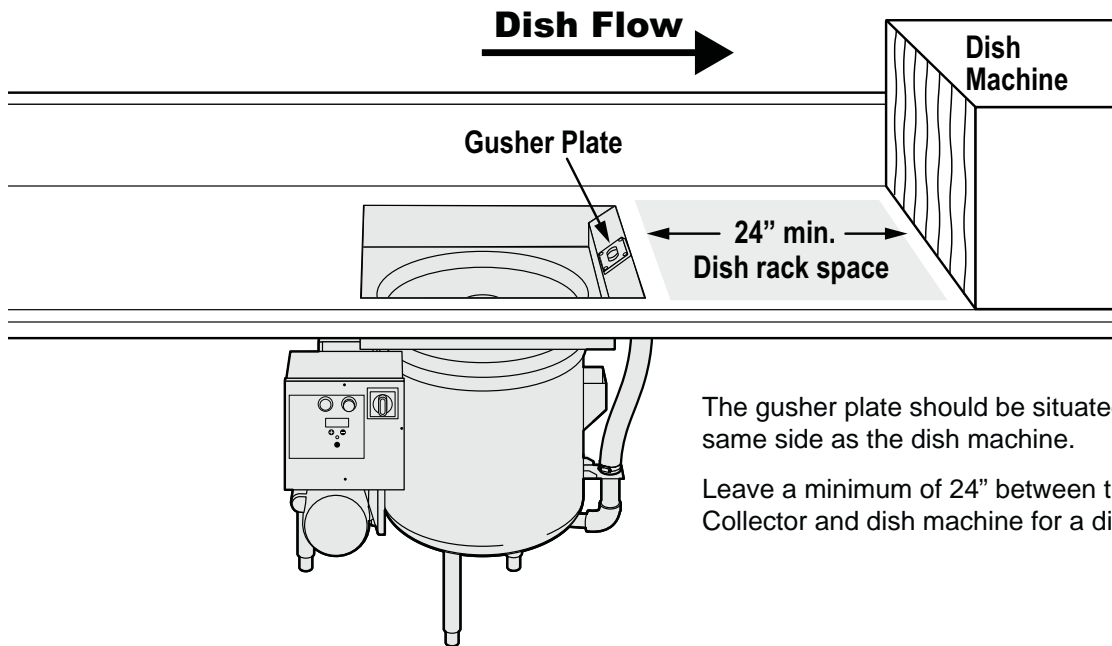
- UTILITY CONNECTION**
- Incoming electrical connection → factory wired control panel
 - Incoming hot/cold water connection → factory plumbed water harness
 - Drain connection → 2" NPT



Model S914 shown - P914 similar

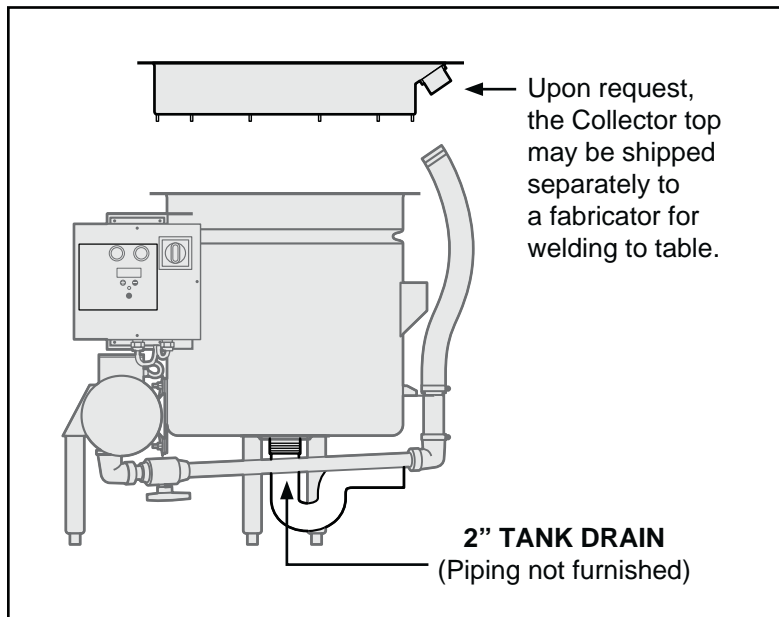
NOTE: Dimensions in parenthesis are in centimeters

Scrap Collector™ Model S914 Pot/Pan Scrap Collector™ Model P914



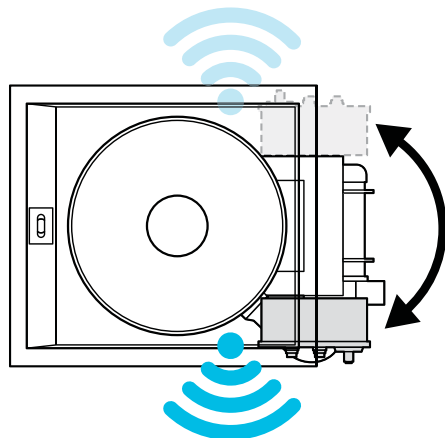
The gusher plate should be situated on the same side as the dish machine.

Leave a minimum of 24" between the Collector and dish machine for a dish rack.



ALL CONNECTIONS ARE TO BE MADE BY QUALIFIED PERSONNEL WHO WILL OBSERVE ALL LOCAL AND NATIONAL CODES.

Model S914 shown - P914 similar



The control and operator sensor can be mounted on either side of the Collector using existing fasteners, mounting holes and wiring to accommodate dish flow to the left or dish flow to the right. It is not necessary to disconnect factory-installed wiring.

The control and sensor should always face the operator.

If necessary, the control can be mounted remotely. Additional field wiring and hardware will be necessary. Contact service for installation advice.

Scrap Collector™

Model S914 & Model P914 Specifications

CONSTRUCTION

- Tank - 2 Piece Stainless Steel
- Adjustable Legs - Stainless Steel
- Control Panel - Stainless Steel
- Salvage Basin - High Impact Polymer
- Scrap Basket - High Impact Polymer

ELECTRICAL

- Pre-wired NEMA 4 Control Panel
- Patented Operator Sensor
- Watertight Conduit/Fittings
- Separate Component Grounding
- Thermally Protected Motor
- Safety Line Disconnect
- 24 Volt Safety Circuitry

PLUMBING

- Corrosion Resistant Components
- Automatic Water Blender
- 24 Volt Solenoid Valves
- Unions
- Check Valves
- Incoming Water Valves
- Non-clogging Pump Design
- Pump Intake Screen
- Back Flow Prevention Device

ACCESSORIES

- Remote Start-Stop
- Remote Mounting Bracket
- Correctional Package
- Control Mounting Bracket
- Additional Scrap Basket

VOLTAGES AVAILABLE (SPECIFY EXACT OPERATING VOLTAGE)

- 115V 208V 230V, 60 Cycle, 1 Phase
 208V 230V 460V, 60 Cycle, 3 Phase
- Pump Motor 3/4 HP

FULL LOAD AMPS (SPECIFY EXACT OPERATING VOLTAGE)

1 PHASE			3 PHASE		
115V	208V	230V	208V	230V	460V
11	5.5	5.5	3.2	3	1.5

UTILITIES REQUIRED

1. Electric service
2. 3/4" hot and cold water supply and reduce to 1/2" at connection.
3. 2" tank drain.

(Specifications subject to change without notice.)

SAMPLE SPECIFICATIONS

Unit shall be a Scrap Collector (or Pot/Pan Scrap Collector) scrapping, pre-flushing and food waste collecting system with recirculating water as manufactured by Salvajor.

Model S914 (or P914), ____Volts, 60Hz, ____Phase.

Furnished with a pre-wired HydroLogic control panel, sensor and stainless steel NEMA 4 watertight enclosure.

U.S. Pat. No. 7,815,134

SALVAJOR®

Manufacturers of Commercial Food Waste Solutions - Since 1944



4530 East 75th Terrace Kansas City, MO 64132-2081, USA






816.363.1030 | Toll Free: 1.800.725.8256 | Service: 1.888.725.8256 | Fax: 1.800.832.9373

sales@salvajor.com | service@salvajor.com | www.salvajor.com

Printed in USA
Form No. S&P914 (05-18)

SALVAJOR® Pre-Wired Control Panels

For Food Waste Disposer Models 100 - 200 - 300 - 500

<p style="text-align: center;">MSS</p> 	<p>NON-REVERSING</p> <p>1-PHASE 115V, 208V, 230V</p> <p>3-PHASE 208V, 230V, 460V</p> <p><i>For use in small to medium kitchens, vegetable prep areas, pot sink and soiled dish tables.</i></p>	<p>SPECIFICATIONS:</p> <ul style="list-style-type: none"> • NEMA 4 Stainless Steel Corrosion-Resistant Enclosure • Magnetic Contactor • START/STOP Push Buttons • Terminal Strip Connections 	<p>ACCESSORIES:</p> <ul style="list-style-type: none"> • Safety Line Disconnect (LD) • P - Mounted Solenoid Valve and Flow Control • PP - Mounted Solenoid Valve, Flow Control and Pressure Switch • #980104 - Mounting Bracket
<p style="text-align: center;">MRSS</p> 	<p>MANUAL REVERSING</p> <p>1-PHASE 115V, 208V, 230V</p> <p>3-PHASE 208V, 230V, 460V</p> <p><i>For use in small to medium kitchens, vegetable prep areas, pot sink and soiled dish tables.</i></p>	<p>SPECIFICATIONS:</p> <ul style="list-style-type: none"> • NEMA 4 Stainless Steel Corrosion-Resistant Enclosure • Manual Reversing Magnetic Contactors • START/STOP Push Buttons • Forward/Reverse Switch 	<p>ACCESSORIES:</p> <ul style="list-style-type: none"> • Safety Line Disconnect (LD) • P - Mounted Solenoid Valve and Flow Control • PP - Mounted Solenoid Valve, Flow Control and Pressure Switch • #980104 Mounting Bracket
<p style="text-align: center;">ARSS-2</p> 	<p>AUTOMATIC REVERSING</p> <p>1-PHASE 115V, 208V, 230V</p> <p>3-PHASE 208V, 230V, 460V</p> <p><i>For use in medium to large kitchens, all prep areas and soiled dish tables.</i></p>	<p>SPECIFICATIONS:</p> <ul style="list-style-type: none"> • NEMA 4 Stainless Steel Watertight Enclosure • 24 Volt Safety Circuitry • Automatic Reversing Magnetic Contactors • Terminal Strip Connections • START/STOP Push Buttons 	<p>ACCESSORIES:</p> <ul style="list-style-type: none"> • P - Mounted Solenoid Valve and Flow Control • PP - Mounted Solenoid Valve, Flow Control and Pressure Switch • #980105 Mounting Bracket
<p style="text-align: center;">ARSS</p> 	<p>AUTOMATIC REVERSING</p> <p>1-PHASE 115V, 208V, 230V</p> <p>3-PHASE 208V, 230V, 460V</p> <p><i>For use in medium to large kitchens, all prep areas and soiled dish tables.</i></p>	<p>SPECIFICATIONS:</p> <ul style="list-style-type: none"> • NEMA 4 Stainless Steel Watertight Enclosure • Solid State Control Circuit • 24 Volt Safety Circuitry • 20 Second Drain Flush • Automatic Reversing Magnetic Contactors • Terminal Strip Connections • START/STOP Push Buttons • Energy/Water-Saving Mode • 3 Second Reversing Safety Delay • User Adjustable Run Time • LCD Status Readout • Operator Sensor Capable 	<p>ACCESSORIES:</p> <ul style="list-style-type: none"> • Safety Line Disconnect (LD) • P - Mounted Solenoid Valve and Flow Control • PP - Mounted Solenoid Valve, Flow Control and Pressure Switch • #980105 Mounting Bracket • #980609 Operator Sensor Includes Low Flow Solenoid Valve <p> Product configurations protected by U.S. Pat. No. 7,815,134 when used with sensor</p>

SAFETY FEATURE:

All Salvajor Controls include an operator safety feature that prevents automatic starting of the disposer after a power interruption.

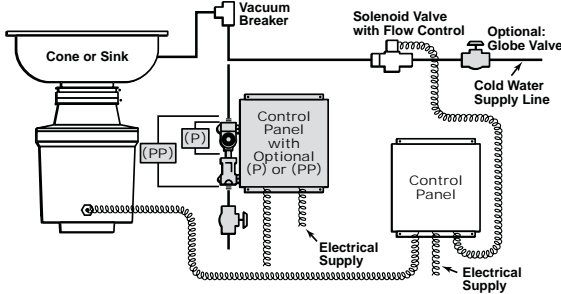
ALL SALVAJOR CONTROLS ARE:



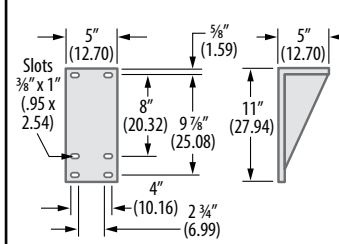
Disposer Controls

DETAILS AND DIMENSIONS

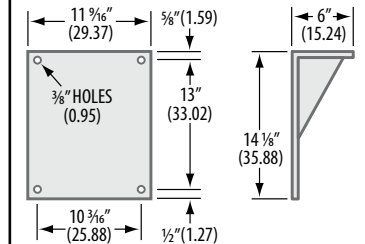
Typical Installation of a Salvajor Disposer with: MSS, MRSS, ARSS-2 or ARSS Control



980104 Optional Mounting Bracket



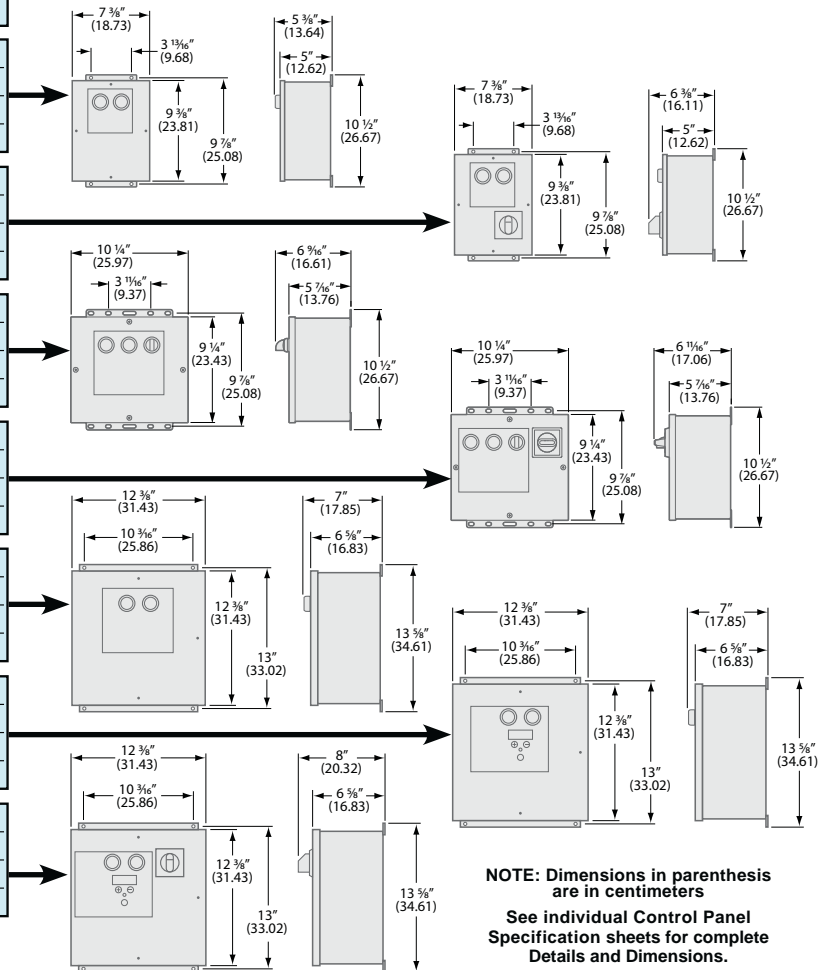
980105 Optional Mounting Bracket



ITEM NUMBERS FOR ORDERING

CONTROL MODEL	VOLTS	PHASE	ITEM NO.
MSS	115	1	MSS4
	208-230	1	MSS5
	208-230	3	MSS7
	460	3	MSS9
MSS-LD	115	1	MSSLD4
	208-230	1	MSSLD5
	208-230	3	MSSLD7
	460	3	MSSLD9
MRSS	115	1	MRSS4
	208-230	1	MRSS5
	208-230	3	MRSS7
	460	3	MRSS9
MRSS-LD	115	1	MRSSLD4
	208-230	1	MRSSLD5
	208-230	3	MRSSLD7
	460	3	MRSSLD9
ARSS-2	115	1	ARSS24
	208-230	1	ARSS25
	208-230	3	ARSS27
	460	3	ARSS29
ARSS	115	1	ARSS4
	208-230	1	ARSS5
	208-230	3	ARSS7
	460	3	ARSS9
ARSS-LD	115	1	ARSSLD4
	208-230	1	ARSSLD5
	208-230	3	ARSSLD7
	460	3	ARSSLD9

DIMENSIONS



NOTE: Dimensions in parenthesis are in centimeters
 See individual Control Panel Specification sheets for complete Details and Dimensions.
 (Specifications subject to change without notice)
 Current specification details may be found online at www.salvajor.com

◆ SPECIFY EXACT OPERATING VOLTAGE ◆

SALVAJOR

Manufacturers of Commercial Food Waste Solutions - Since 1944

4530 East 75th Terrace Kansas City, MO 64132-2081, USA
 816.363.1030 | Toll Free: 1.800.725.8256 | Service: 1.888.725.8256 | Fax: 1.800.832.9373
sales@salvajor.com | service@salvajor.com | www.salvajor.com

Printed in USA
 Form No. CCP (05-18)



Jefferson Middle School

11/29/2023

ITEM# 21 - PRE-RINSE FAUCET ASSEMBLY (1 EA REQ'D)

T&S Brass B-0133-B08C

(or District Approved equal)

EasyInstall Pre-Rinse Unit, 8" wall mount, adjustable centers, spring action gooseneck, quarter-turn Eterna cartridges with spring checks, lever handles with color coded indexes, EasyInstall 18" riser, 44" flexible stainless steel hose, 0.65 GPM JeTSpray spray valve, 6" adjustable wall bracket, 1/2" NPT, low lead, NSF, cCSAus

ACCESSORIES

Mfr	Qty	Model	Spec
T&S Brass	1	B-0230-K	Installation Kit, (2) 1/2" NPT nipples, lock nuts & washers, (2) short "EII" 1/2" NPT female x male



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

B-0133-B08C

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

This Space for Architect/Engineer Approval

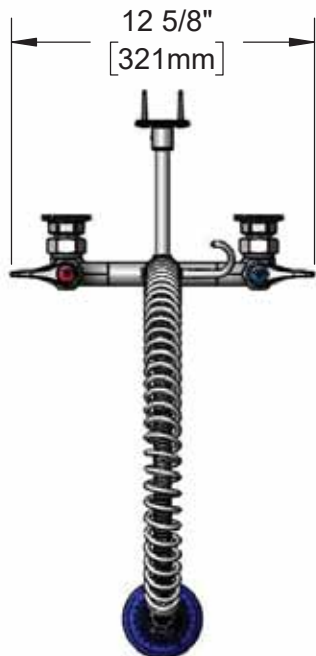
Job Name _____ Date _____

Model Specified _____ Quantity _____

Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____



44" Flexible Stainless Steel Hose w/ Spring & Spray Valve

Items Not Shown For Clarity

Finger Hook

B-0108-C
0.65 GPM Low Flow Spray Valve

Quarter-Turn Eterna Cartridges w/ Spring Check & Lever Handles w/ Color Coded Indexes

3/8" NPT x 18" Riser

EasyInstall Lock Nut & Bushing

3 11/16" [94mm]

8" [203mm]

Adjustable From 7 3/4" to 8 1/4" [197mm to 210mm]

Ø 2" [51mm] Flanges w/ 1/2" NPT Female Inlets

5 1/2" [140mm]

B-0109-01
6" Wall Bracket

33 5/16" [846mm]

14 7/16" [366mm]

2 3/8" [61mm]

Mounting Surface

Product Specifications:

Pre-Rinse Unit: EasyInstall 8" Wall Mount Mixing Faucet, Quarter-Turn Eterna Cartridges w/ Spring Checks, Lever Handles, 44" Flexible Stainless Steel Hose, 0.65 GPM Low Flow Spray Valve, 6" Wall Bracket & 1/2" NPT Female Inlets

Product Compliance:

ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)
2019 DOE PRSV - Class I



T&S BRASS AND BRONZE WORKS, INC.

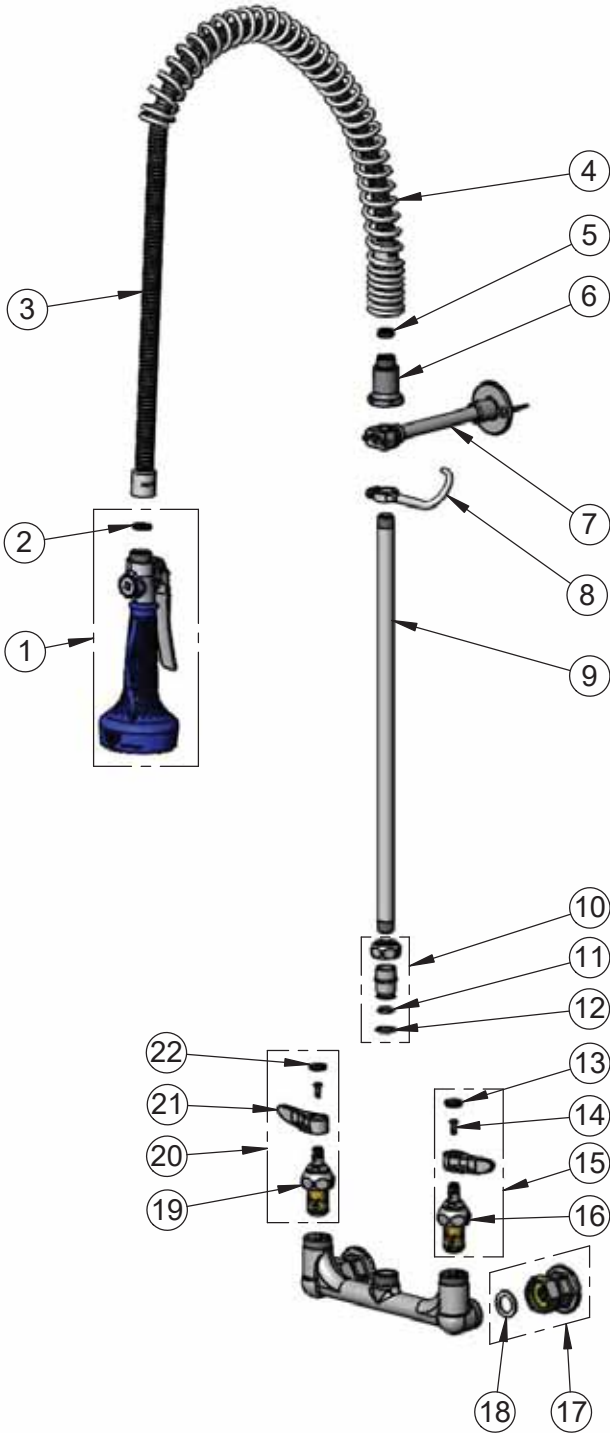
2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

B-0133-B08C

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



ITEM NO.	SALES NO.	DESCRIPTION
1	B-0108-C	0.65 GPM Low Flow Spray Valve w/ Ergo-Grip
2	001014-45	Washer, B-0100 Hose Barrel
3	B-0044-H2A	44" Flexible Stainless Steel Hose, Less Handle
4	000888-45	EasyInstall Overhead Spring
5	010476-45	#27 Washer
6	000821-40	Spring Body
7	B-0109-01	6" Wall Bracket
8	004R	Finger Hook
9	000369-40	3/8" NPT x 18" Riser
10	EZ-K	EasyInstall Kit
11	001065-45	O-Ring
12	014200-45	Star Washer, Anti-Rotation
13	018506-19NS	Blue Button Index, Press-in
14	000925-45	Lab Handle Screw
15	002711-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, Handle, Blue Index & Screw, LTC
16	012442-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, LTC
17	00AA	1/2" NPT Female Eccentric Flange
18	001019-45	Coupling Nut Washer
19	012443-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, RTC
20	002712-40NS	Quarter-Turn Eterna Cartridge w/ Spring Check, Handle, Red Index & Screw, RTC
21	001638-45NS	Lever Handle (New Style)
22	001193-19NS	Red Button Index, Press-in

Product Specifications:

Pre-Rinse Unit: EasyInstall 8" Wall Mount Mixing Faucet, Quarter-Turn Eterna Cartridges w/ Spring Checks, Lever Handles, 44" Flexible Stainless Steel Hose, 0.65 GPM Low Flow Spray Valve, 6" Wall Bracket & 1/2" NPT Female Inlets

Product Compliance:

ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)
2019 DOE PRSV - Class I



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

B-0230-K

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

This Space for Architect/Engineer Approval

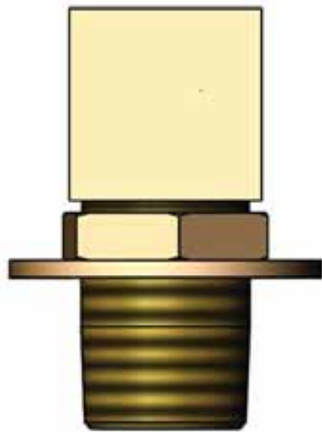
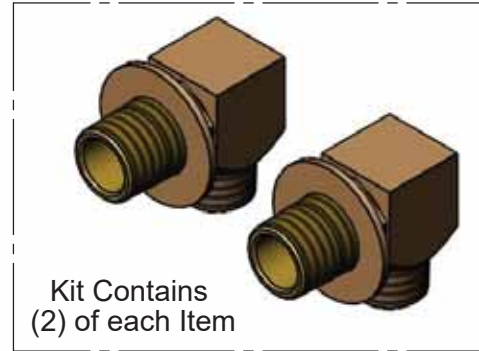
Job Name _____ Date _____

Model Specified _____ Quantity _____

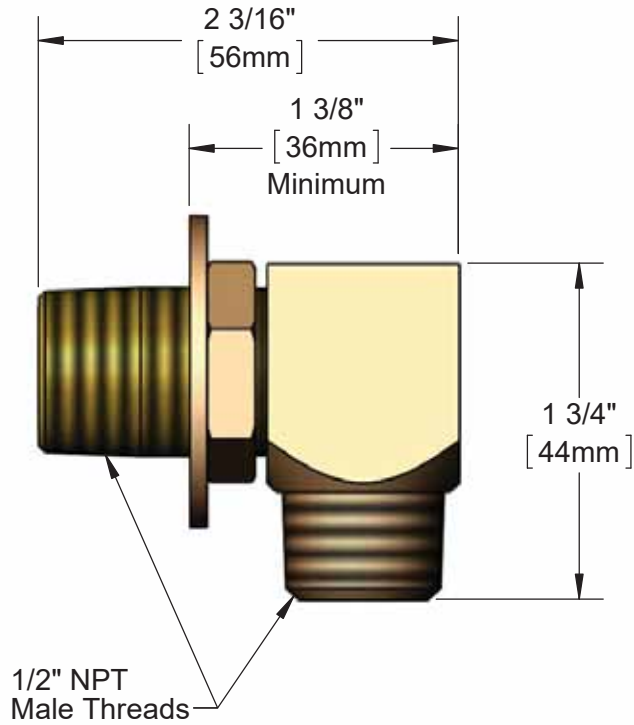
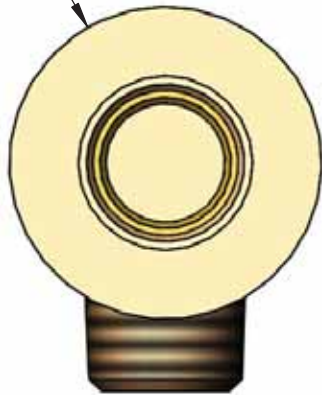
Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____



Ø 1 5/8"
[41mm]



Product Specifications:
1/2" NPT Male Elbow Kit w/ Lock Nut & Washer

Product Compliance:
ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

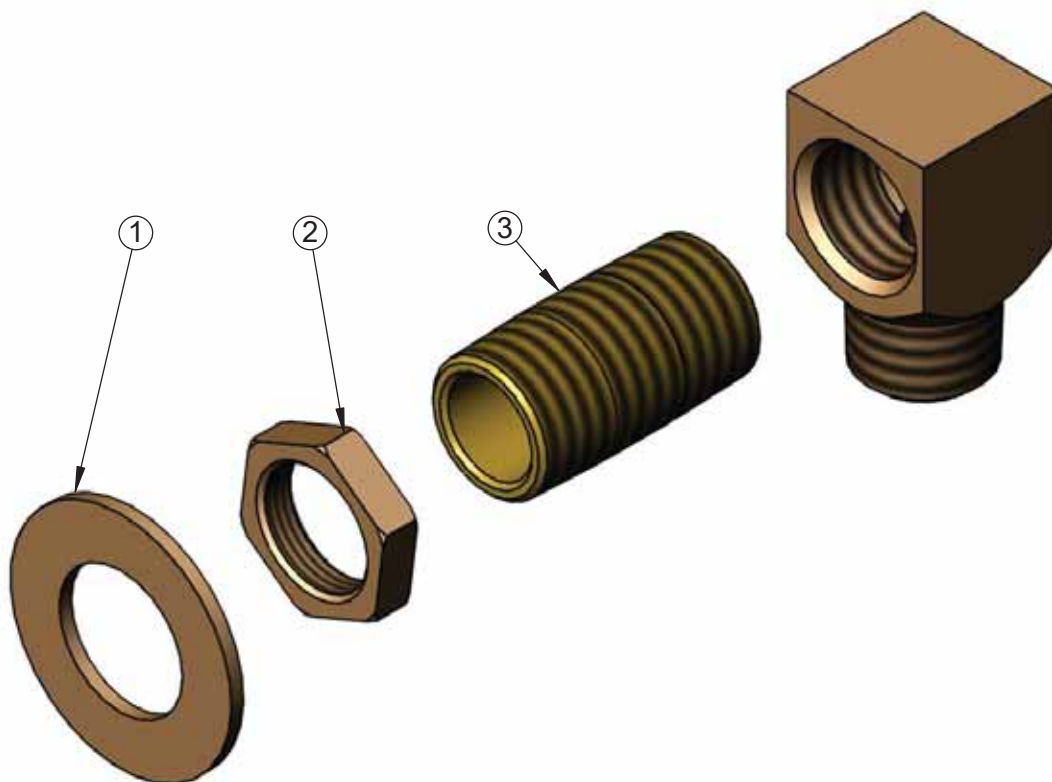
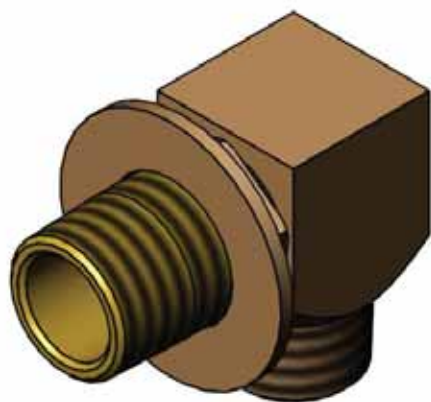
Model No.

B-0230-K

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

ITEM NO.	SALES NO.	DESCRIPTION
1	000999-45	Brass Lock Washer
2	002954-45	Shank Lock Nut
3	013357-20	1/2" NPT x 1-5/8" Lg. Close Nipple



Product Specifications:
1/2" NPT Male Elbow Kit w/ Lock Nut & Washer

Product Compliance:
ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)



Jefferson Middle School

11/29/2023

ITEM# 22 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 23 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 24 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 25 - HAND SINK, ADA ACCESSIBLE (1 EA REQ'D)

IMC Teddy ADA-WS-2S

(or District Approved equal)

ADA-WS Handicap Hand Sink, wall mounted, 22"W x 24"D x 31-7/8"H overall size, splash mount holes with 4" centers, includes gooseneck faucet with wrist-action handles, 10"H backsplash, 14"W x 16" front-to-back x 4" deep bowl, non-drip marine edges, soap & towel dispensers, front apron with rear flange & "Z" strip, 16/304 stainless steel construction, ADA Compliant, NSF, Made in USA

ACCESSORIES

Mfr	Qty	Model	Spec
-----	-----	-------	------

NOTE: provide with Hands Free Electronic Faucet (Item #25.1), in lieu of standard faucet.



ADA-WS

Handicap Model Hand Sinks

General Information

Project Name: _____

Consultant: _____

Item #: _____

Model #: _____

Quantity: _____



ADA-WS-2D
Shown w/ Integral
Towel Dispenser (ITD)

ADA-WS-1DX

Specifications

ADA-WS Model Handicap Hand Sink is constructed of 16GA stainless steel type 300 series with integrated backsplash, non-drip marine edges and a large cove corner sink bowl with 1½" waste outlet and an apron with enclosure.

Right hand Model "ITD" - "INTEGRAL" built-in towel dispenser accommodates 9½" multi-fold towels. Removable front enclosure conceals piping and prevents wheelchair damage. Deck mounted ADA Soap Dispenser and ADA wrist-action handle faucet are standard.

ADA-WS-X - same as above without faucet, integral towel dispenser or soap dispenser.

ADA-WS-SEC - Security ADA Wall Sink with Automatic Self-Closing Faucet, T&S #807 or equal, and correctional model apron with front enclosure.

Product Guide

IMC Hand Sinks are easily cleanable without the use of tools. All corners are coved, and all seams are fully welded and polished.

Large oversize deck provides space for faucet, soap dispenser and integral towel dispenser. High backsplash protects wall and keeps sink sanitary. Large integral apron conceals all plumbing.

Options

- SS** - Side Splashes (Pair)
- TWB** - Tubular Wall Brackets
- RSOD** - Rear Sink Overflow Drain
- CBW** - Custom Bowl Size



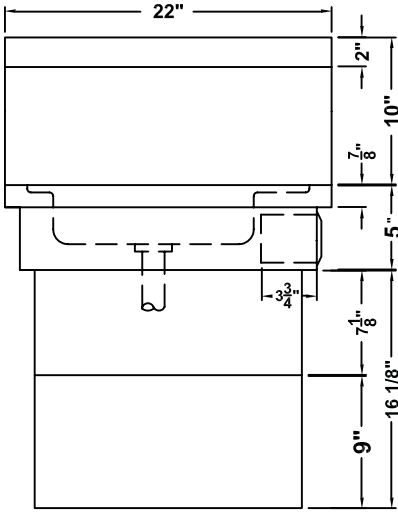
ADA-WS-010 0622



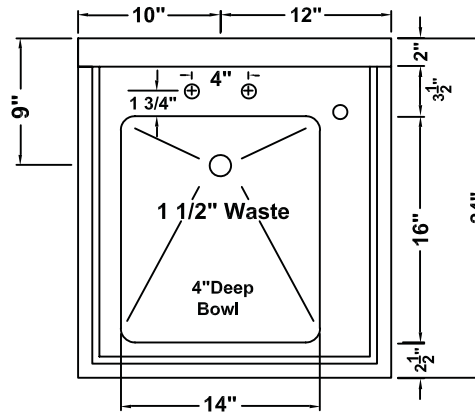
ADA-WS

Handicap Model Hand Sinks

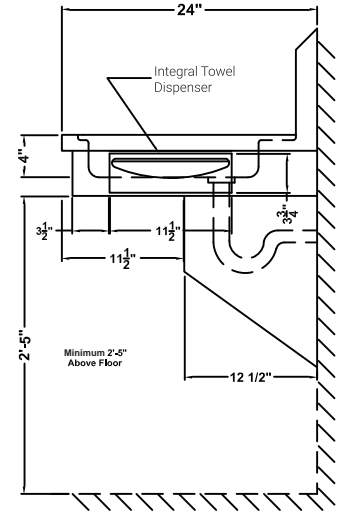
DRAWINGS



FRONT ELEVATION



PLAN



SIDE ELEVATION

Shown here with Optional
Integrated Towel Dispenser

ADA WALL MOUNTED HAND SINK

Sink Only Models	Faucet Mounting	Sink w/ Faucet Models	Overall Size
<input type="checkbox"/> ADA-WS-1DX	1 Hole Deck	<input type="checkbox"/> ADA-WS-1D	24" x 22" x 31 7/8"
<input type="checkbox"/> ADA-WS-1SX	1 Hole Splash	<input type="checkbox"/> ADA-WS-1S	24" x 22" x 31 7/8"
<input type="checkbox"/> ADA-WS-2DX	4" OC Deck	<input type="checkbox"/> ADA-WS-2D	24" x 22" x 31 7/8"
<input type="checkbox"/> ADA-WS-2SX	4" OC Splash	<input type="checkbox"/> ADA-WS-2S	24" x 22" x 31 7/8"

*Includes soap dispenser

Specifications subject to change without notice.

ADA-WS-010 0622



Jefferson Middle School

11/29/2023

ITEM# 25.1 - HANDS FREE ELECTRONIC FAUCET (1 EA REQ'D)

T&S Brass EC-3105-HG

(or District Approved equal)

ChekPoint™ Electronic Faucet, wall mount, 4" centers, rigid gooseneck spout, 2.2 GPM vandal resistant aerator, hydro-generator power supply, AC/DC control module with internal flow control, temperature control mixing valve with integral check valves, chrome-plated brass, flexible stainless steel supply hoses, ADA Compliant

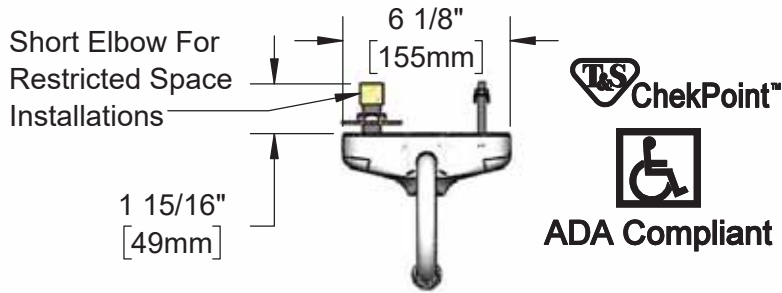


T&S BRASS AND BRONZE WORKS, INC.
 2 Saddleback Cove / P.O. Box 1088
 Travelers Rest, SC 29690

Model No.
EC-3105-HG

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



This Space for Architect/Engineer Approval

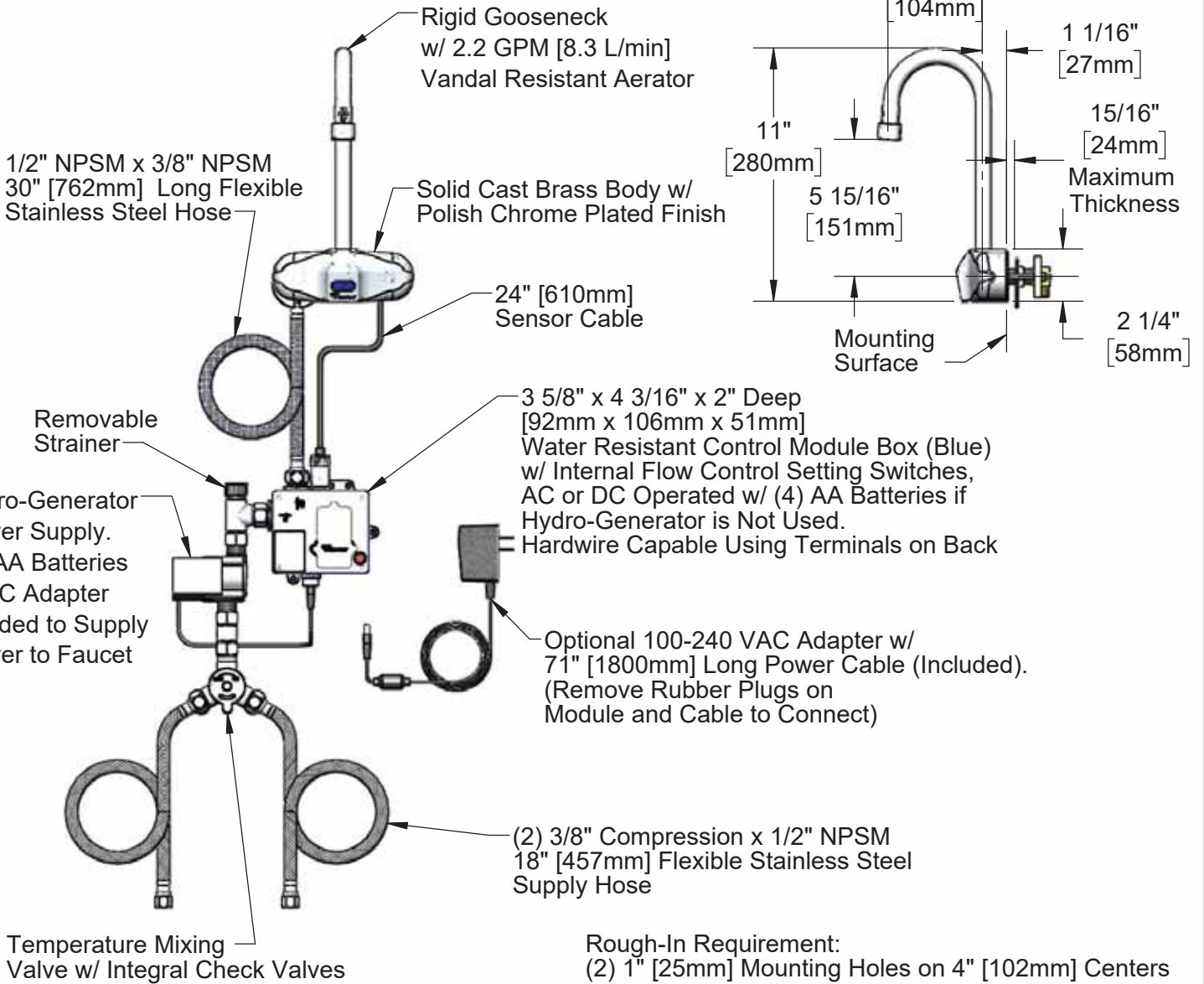
Job Name _____ Date _____

Model Specified _____ Quantity _____

Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____



Rough-In Requirement:
 (2) 1" [25mm] Mounting Holes on 4" [102mm] Centers

Product Specifications:
 Chrome Plated Brass Electronic Faucet: 4" c/c Wall Mount Rigid Gooseneck w/ VR Aerator, AC/DC Control Module w/ Internal Flow Control Setting Switches, Temperature Control Mixing Valve w/ Integral Check Valves, Hydro-Generator & 18" Long Hot & Cold Supply Stop Flexible Connector Hoses

Product Compliance:
 ASME A112.18.1 / CSA B125.1
 NSF 61 - Section 9
 NSF 372 (Low Lead Content)
 ANSI A117.1 (ADA)
 UL 1951

Drawn: GEF | Checked: DMH | Approved: JHB | Date: 10/13/17 | Scale: 1:7 | Sheet: 1 of 2



T&S BRASS AND BRONZE WORKS, INC.

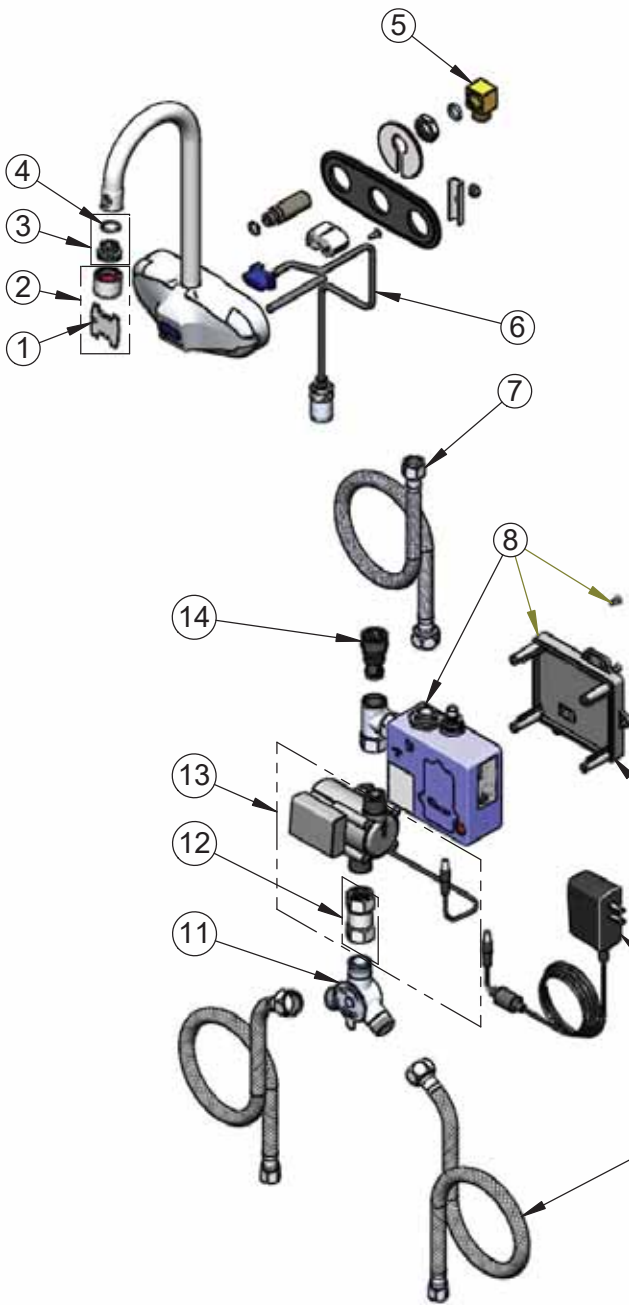
2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

EC-3105-HG

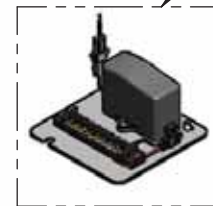
Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



ITEM NO.	SALES NO.	DESCRIPTION
1	015425-45	Vandal Resistant Key
2	B-0199-06	VR 2.2 GPM Aerator, 55/64-27 Female
3	044A	3/8" to Aerator Adapter
4	006575-45	-015 O-Ring
5	015345-45	Low Profile Elbow, 3/8 NPSM
6	017195-45	Angled Sensor with Cable
7	016325-45	Inlet Hose, Faucet, 1/2" NPSM-F x 3/8" NPSM-F
8	016647-45	ChekPoint Control Module
9	5EF-0002	A/C Transformer
10	5EF-0005	Supply Hose, 9/16-24 Female x 1/2" NPSM
11	5EF-0006	Mechanical Mixing Valve
12	017506-45	1/2" NPSM Swivel Coupling
13	EC-HYDROGEN	HydroGenerator Power Supply
14	EC-FILTER	Replacement Filter

A Maximum of (8) ChekPoint Faucets can be Hardwire Connected and Powered by EC-HARDWIRE ChekPoint Hardwire AC Transformer. (Sold Separately)



Label for Flow Control Switch Settings is Located on Inside of Back Cover.

Flow Control Switches are Located Inside Module Housing in Black Box Next to Battery Compartment.
*Switches are Set to DEFAULT Position:
- Auto Time Out = 15 Seconds
- Shut Off Delay = 1 Second
- Auto Flush = OFF

***Available Water Flow Control Selections:**

- Auto Time Out: 15 sec, 30 sec, 45 sec, 60 sec, 3 min, 20 min
- Shut Off Delay: 1 sec, 10 sec, 15 sec, 30 sec
- Auto Flush (30 Seconds After Every 12 Inactive Hours): ON or OFF

Remove (4) Screws and Back Cover to Access Switches.

Product Specifications:

Chrome Plated Brass Electronic Faucet: 4" c/c Wall Mount Rigid Gooseneck w/ VR Aerator, AC/DC Control Module w/ Internal Flow Control Setting Switches, Temperature Control Mixing Valve w/ Integral Check Valves, Hydro-Generator & 18" Long Hot & Cold Supply Stop Flexible Connector Hoses

Product Compliance:

ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)
ANSI A117.1 (ADA)
UL 1951



Jefferson Middle School

11/29/2023

ITEM# 26 - TYPE-1 GREASE EXHAUST HOOD (1 EA REQ'D)

Accurex

Type-1 grease exhaust hood, UL or ETL listed. Includes stainless steel baffle filters. Furnish per floor plan, detail sheets, and specifications. Field verification required. Hang hood and provide stainless steel trim to ceiling with no exposed fasteners and all necessary stainless steel hood hanging materials. Provide shop drawings for approval.



Jefferson Middle School

11/29/2023

ITEM# 27 - EXHAUST FAN FOR EXHAUST HOOD (2 EA REQ'D)

NIKEC

Furnished and installed by Mechanical Contractor.



Jefferson Middle School

11/29/2023

ITEM# 28 - MAKE-UP AIR SYSTEM (1 EA REQ'D)

NIKEC

Furnished and installed by Mechanical Contractor.



Jefferson Middle School

11/29/2023

ITEM# 29 - FIRE SUPPRESSION SYSTEM (1 LT REQ'D)

Ansul R-102

Ansul: Wall Mounted Fire Suppression System. Design and installation of the kitchen hood fire suppression system. All equipment to be installed in a professional manner, in compliance with NFPA 96, 17A, UL 300 and local fire code requirements. Provide labor and materials for the complete installation and testing of one (1) lot Ansul automatic fire suppression system to protect the exhaust hoods and appliances based on a plan review, equipment and services to include the following: Tanks in stainless steel enclosures; UL listed grease seal adapters; Pipe, nozzles, fittings, conduit in chrome; Fusible link detectors; Double throw micro-switches (4PDT); Manual Pull Station; Plan drawings and submittal pkg.; Final acceptance test w/Local authorities.

ACCESSORIES

Mfr	Qty	Model	Spec
Ansul	1		Gas shut-off valve to be furnished by K.E.C., installed by Plumbing Contractor.
Ansul	1		Electrical Contractor is responsible for wiring main control panel, all fans per included schematic & shunt trip breaker



Jefferson Middle School

11/29/2023

ITEM# 30 - USER INTERFACE TOUCH CONTROL (1 EA REQ'D)

Accurex

See Exhaust Hood drawings for more information.



Jefferson Middle School

11/29/2023

ITEM# 31 - REMOTE PULL STATION FOR FIRE SUPPRESSION SYSTEM (1 EA REQ'D)

Ansul

Furnished and installed by Kitchen Equipment Contractor. Octagonal junction box to be roughed-in by Electrical Contractor.



Jefferson Middle School

11/29/2023

ITEM# 32 - K-TYPE FIRE EXTINGUISHER (1 EA REQ'D)

Ansul

Furnished by Kitchen Equipment Contractor. Installed by General Contractor.



Jefferson Middle School

11/29/2023

ITEM# 33 - GAS SHUT-OFF VALVE (1 EA REQ'D)

Ansul

Furnished by Kitchen Equipment Contractor. Installed by Plumbing and Electrical Contractors.



Jefferson Middle School

11/29/2023

ITEM# 34 - WALL METAL/FLASHING (1 LT REQ'D)

CUSTOM SS

Custom fabricated 20-gauge stainless steel wall metal. From top of cove base to bottom of hood. Install with hem clips and without visible fasteners. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.

ACCESSORIES

Mfr	Qty	Model	Spec
CUSTOM SS	1		Include custom fabricated, minimum 20 gauge, stainless steel hood skirt from top of hood to ceiling with knuckle type connections (no laps) and access panel, where necessary. Install with hem clips and without visible fasteners.



Jefferson Middle School

11/29/2023

ITEM# 35 - QUICK GAS DISCONNECT (1 LT REQ'D)

T&S Brass

(or District Approved equal)

Verify size and quantity with equipment.

ACCESSORIES

Mfr	Qty	Model	Spec
T&S Brass	3	HG-4C-48K	Safe-T-Link Gas Connector Kit, 1/2" connection, 48" hose, stainless steel braiding with extruded coating, (1) Quick-Disconnect, (1) street "EL", ball valve, restraining cable adjustable for 3'to 5', 70,000 BTU / hr minimum flow capacity
T&S Brass	4	HG-4D-48K	Safe-T-Link Gas Connector Kit, 3/4" connection, 48" hose, stainless steel braiding with extruded coating, (1) Quick-Disconnect, (1) street "EL", ball valve, restraining cable adjustable for 3'to 5', 180,000 BTU / hr minimum flow capacity



T&S BRASS AND BRONZE WORKS, INC.
 2 Saddleback Cove / P.O. Box 1088
 Travelers Rest, SC 29690

Model No.
HG-4-K Series

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

This Space for Architect/Engineer Approval

Job Name _____ Date _____

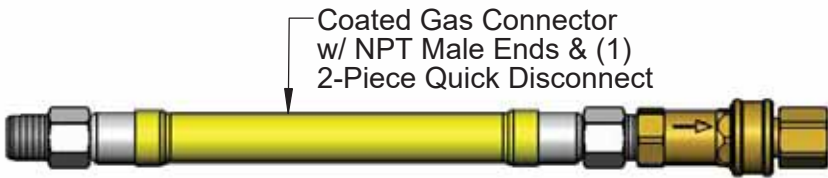
Model Specified _____ Quantity _____

Customer/Wholesaler _____

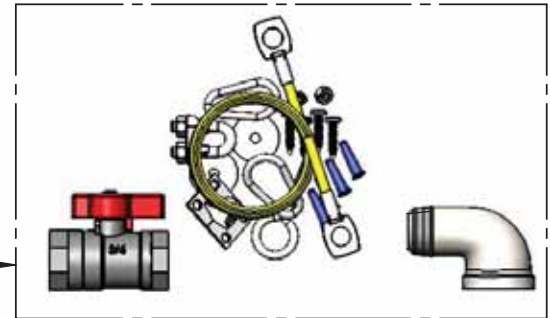
Contractor _____

Architect/Engineer _____

SAFE·T·LINK



Installation Kit:
 Restraining Cable,
 Street El, Ball Valve



"L" = Length	1/2" NPT
12"	HG-4C-12K
24"	HG-4C-24K
36"	HG-4C-36K
48"	HG-4C-48K
60"	HG-4C-60K
72"	HG-4C-72K

"L" = Length	3/4" NPT
12"	HG-4D-12K
24"	HG-4D-24K
36"	HG-4D-36K
48"	HG-4D-48K
60"	HG-4D-60K
72"	HG-4D-72K

"L" = Length	1" NPT
12"	HG-4E-12K
24"	HG-4E-24K
36"	HG-4E-36K
48"	HG-4E-48K
60"	HG-4E-60K
72"	HG-4E-72K

"L" = Length	1 1/4" NPT
12"	HG-4F-12K
24"	HG-4F-24K
36"	HG-4F-36K
48"	HG-4F-48K
60"	HG-4F-60K
72"	HG-4F-72K

HG-4-K Series Product Configurator: HG - 4 - K

Ex: HG - 4 - K

Gas Hose, 3/4" NPT Male Ends, 36" Length, (1) 2-Piece Quick Disconnect,
 (1) Street El, (1) Installation Kit

Product Specifications:
 Safe-T-Link Gas Appliance Connector: Coated Gas Hose, NPT Male Ends, 2-Piece Quick Disconnect and Street Elbow

Product Compliance:
 ANSI Z21.69 / CSA 6.16
 NSF 2
 NFPA 54



Jefferson Middle School

11/29/2023

ITEM# 36 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 37 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 38 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 39 - KETTLE, GAS, TILTING (1 EA REQ'D)

Groen DH-40A

(or District Approved equal)

Tilting Kettle, gas, 40-gallon capacity, crank tilt, 2/3 jacket, IPX6 water rated electronic Advanced controls with digital display, 1 minute to 10 hour timer, low (2) and high (7) preset intensities with manual capability, 316 stainless steel liner, floor mounted control console supports, stainless steel construction, bullet feet, electronic ignition, 50 PSI, 0 - 2000' elevation, 100,000 BTU, cCSAus, NSF, Made in USA

ACCESSORIES

Mfr	Qty	Model	Spec
Groen	1		Natural gas
Groen	1	ELEVO-2000	For elevation between 0 and 2000 (When order is placed, all equipment with elevation specified will be assigned a different Part# by the factory)
Groen	1		115v/60/1-ph, 5.0 amps, std.
Groen	1		2" Tangent draw-off (TDO)
Groen	1	104278	Brush Set, 2", includes drain valve brush & paddle, for 2" TDO
Groen	1	150536	Lip Strainer, for 40 gallon kettle (DEE/4-40)
Groen	1		Etch Marks, 4 gallon increments
Groen	1	174479	Tri Basket, for 40, 60, 80 & 100 gallon kettles (excluding tilting shorty)
Groen	1	159143	Hinged Cover Kit (no. 41), for 40 gallon tilting kettle, factory installed
Groen	1	122891	Pan Carrier, for tilting floor model kettles (not available on DH-20 & DEE-20)
Groen	1	Z091877	Faucet, double pantry, with 11" rear swing spout & 5" riser
Groen	1	153193	Flanged feet, set of 4
Groen	1	159102	Drain cup & 8' hose assembly for TDO



STEAM JACKETED KETTLES

GAS TILTING FLOOR KETTLE MODELS DH

Kettle shall be a Groen Model DH (specify gallon capacity and Classic (C), Advanced (A) or Cook2Temp™ (C2T) controls) stainless steel floor kettle model, manual tilting steam jacketed unit, operating with a self-contained gas heated steam source contained within the unit. Cook2Temp models also come with a probe.

Certifications:  

PROJECT NAME:	
LOCATION:	
ITEM NO:	
QTY:	
MODEL NO:	
AIA NO:	
SIS NO:	
CSI SECTION:	11400



DH-20C Model shown with options

AVAILABLE MODELS:

CLASSIC CONTROLS:

- DH-20C (20 GALLON)
- DH-40C (40 GALLON)
- DH-60C (60 GALLON)
- DH-80C (80 GALLON)

ADVANCED CONTROLS:

- DH-20A (20 GALLON)
- DH-40A (40 GALLON)
- DH-60A (60 GALLON)
- DH-80A (80 GALLON)

COOK2TEMP CONTROLS:

- DH-20C2T (20 GALLON)
- DH-40C2T (40 GALLON)
- DH-60C2T (60 GALLON)
- DH-80C2T (80 GALLON)

CONSTRUCTION: Kettle interior shall be of type 316 stainless steel, solid one-piece welded construction. The console and all exposed surfaces shall be stainless steel. All controls shall be mounted in a water resistant IPX6-rated enclosure right of the kettle body. The kettle body shall be mounted in a heavy-duty stainless steel combination kettle support tilt trunnion, supported by the stainless steel enclosed base. The base shall have stainless steel tubular legs with height adjustable bullet feet. The trunnion support base shall contain a smooth operating, self locking manual crank tilt mechanism, accessible for installation or maintenance. Kettle body shall have a heavy reinforced bar rim with a welded in butterfly shaped pouring lip for maximum sanitation and durability. Faucet mounting bracket is standard.

FINISH: Kettle interior shall be polished to a 180 emery grit finish. Exterior of kettle shall be finished to a bright high buff finish, ensuring maximum ease in cleaning and maintaining brilliant appearance.

ASME CODE, CSA DESIGN CERTIFIED: Unit shall be ASME shop inspected, stamped and registered with the National Board for operation up to a maximum working pressure of 50 PSI. Unit shall be design certified by CSA International. (Natural and Propane only.)

SANITATION: Unit shall be designed and constructed to meet NSF and known health department and sanitation codes and be NSF listed.

SELF-CONTAINED STEAM SOURCE: Kettle shall have a gas-heated (natural, butane, propane) self-contained steam system to provide kettle temperatures of 100 to approximately 287°F. Unit shall be factory charged with chemically-pure water and rust inhibitors to ensure long life and minimum maintenance.

CONTROLS: Controls to be located in right-side water resistant (IPX6-rated) trunnion enclosure:

Classic -C Models include: Power ON-OFF switch with indicator light, temperature control knob with 1 to 10 increments, HEAT(ing) indicator light and LOW WATER warning light; **Advanced -A Models** include: Same control features as Classic models with the addition of temperature and time set knob, LED display of set heat level or cook time, buttons for reset of Low Temp and High Temp presets, MANUAL mode button for knob-setting of heat level, TIMER-set button with indicator light; **Cook2Temp -C2T Models** include: Same control features as Classic and Advanced models with the addition of Auto C2T and Manual C2T buttons with core probe connection port, MANUAL mode button for knob-setting of heat level for manual cooking and manual C2T cooking.

SAFETY SYSTEMS: Safety systems to include kettle-mounted: pressure-vacuum gauge, pressure relief valve, pressure limit control, water sight glass; plus low-water cutoff, gas regulator valve and kettle tilt automatic gas shutoff.

PERFORMANCE FEATURES: Patented fin tube burner assembly delivers 62-65% efficient combustion, depending on size. 20 gallon models have 72,000 BTU/HR firing rate with 44,140 BTU/HR into the product; 40 gallon models have 100,000 BTU/HR firing rate with 65,000 BTU/HR into the product, and 60 & 80 gallon models have 150,000 BTU/HR firing rate with 93,000 BTU/HR into the product. Electronic ignition to standing pilot is standard.

INSTALLATION: Specify natural, propane, butane, or specific propane/butane mixture. Unit requires 1/2" IPS gas line connection and 115 volt electrical connection. No remote steam source required.

ORIGIN OF MANUFACTURE: Designed and manufactured in the United States.

OPTIONS/ACCESSORIES:

- 2" tangent draw-off valve with removable 1/4" perforated disk strainer
- 1/8" perforated disk strainer
- 1/4" perforated disk strainer
- Basket inserts (TRI-BC)
- Lift-off covers
- Hinged covers
- Power Aid covers
- Pan carrier (40, 60, 80-gallon)
- Kettle brush kit
- Single or double pantry faucets
- Contour measuring strip
- Gallon etch marks
- Replacement core probe (on C2T models only)

ADDITIONAL RESOURCES:

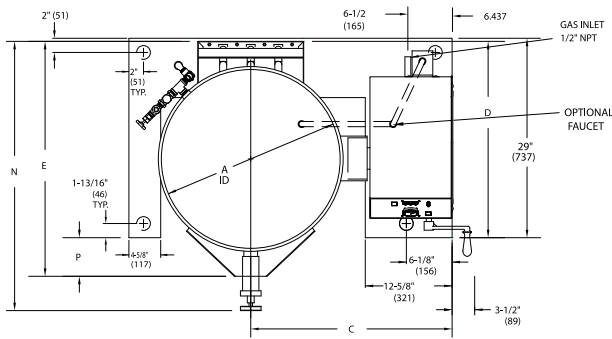
[Request A Quote](#)

[Sales Tools](#)

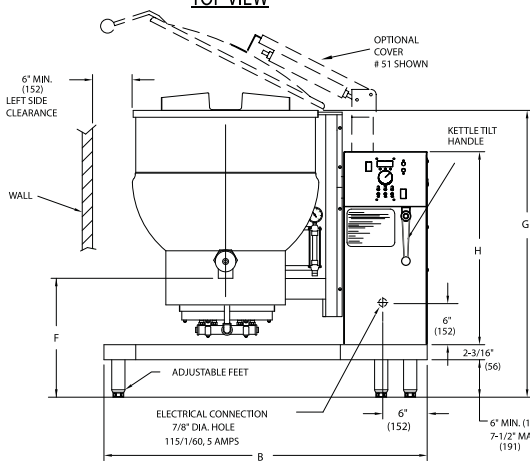
[Find A Rep](#)

Steam Jacketed Kettles
175745 RevH

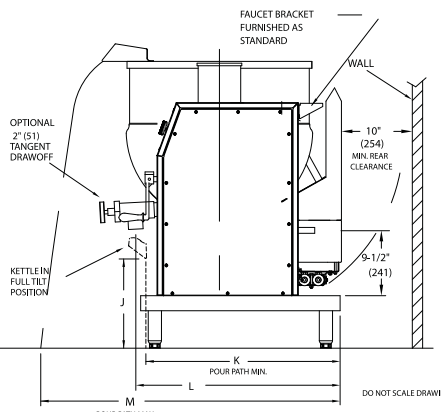
08/22



TOP VIEW



FRONT VIEW



RIGHT SIDE VIEW

DIMENSIONS

CAPACITY	20 Gal.		25 Gal.		30 Gal.		40 Gal.		60 Gal.		
	DIMS	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
A	20	508	20	508	26	660	26	660	30	762	
B	35	889	35	889	47	1194	47	1194	47	1194	
C	26	660	26	660	29	737	29 1/2	749	29 1/2	784	
D	31	787	31	787	26 1/2	673	26 1/2	673	35 1/2	902	
E	32 3/4	832	32 3/4	832	34 5/8	879	34 5/8	879	42 7/8	1089	
F	18	457	15	381	19 1/2	495	18 1/4	463	19	483	
G	39 3/8	1000	40 5/8	1032	40 1/8	1019	43 1/8	1095	46 1/4	1175	
H	26	660	28	711	26	660	28	711	28	711	
J	15 5/8	397	17	432	11	279	13 3/4	349	12 3/8	314	
K	27	686	28	711	29 1/2	749	29 1/4	743	35	889	
L	30 1/4	768	30 1/4	768	31	787	31	787	31 3/4	806	
M	51	1295	53	1346	59 1/2	1511	60 1/2	1537	61 1/2	1562	
N	37 1/4	946	37 1/4	946	36 1/8	918	36 1/8	918	43 1/8	1095	
P	2	51	2	51	5 7/16	138	5 7/16	138	7 1/2	191	



CLASSIC CONTROL



ADVANCED CONTROL



COOK2TEMP CONTROL

INCOMING GAS PRESSURE TABLE			OPERATING GAS PRESSURE	
TYPE OF GAS	MIN. SUPPLY GAS PRESSURE	MAX. SUPPLY GAS PRESSURE	NATURAL	PROPANE
NATURAL	4.5 W.C.	14.0 W.C.	3.5 W.C.	10.0 W.C.
PROPANE	11.0 W.C.	14 W.C.		

NOTES :

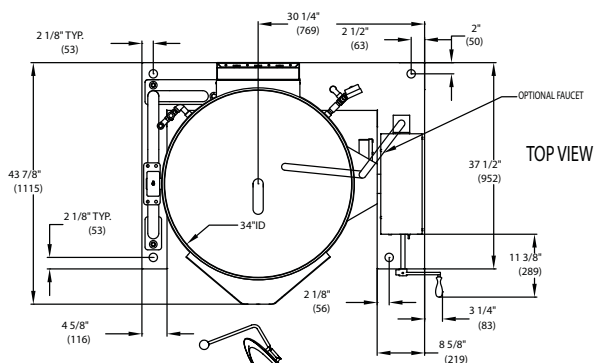
OPTIONAL EXTRA COST FEATURES :

1. 2" TANGENT SANITARY DRAW-OFF
2. LIFT OFF COVER MODEL # 31 FOR DH-20, DH-25 & DH-30 KETTLES
3. HINGED COVER MODEL # 51 FOR DH-40 & DH-60 KETTLES
4. FAUCET WITH SWING SPOUT
5. DIMENSIONS IN BRACKETS () ARE MM

PERFORMANCE DATA

Model	Kettle Capacity	Kettle Body Diameter	Base Width	Base Depth	Firing Rate Per Hour	Energy into Product Per Hour
DH-20 (C,A,C2T)	20 Gal.	20 inches	35 inches	29 inches	72,000 BTU	44,140 BTU
	75 Liter	508 mm	889 mm	736 mm		
DH-40 (C,A,C2T)	40 Gal.	26 inches	47 inches	29 inches	100,000 BTU	65,000 BTU
	150 Liter	660 mm	1194 mm	736 mm		
DH-60 (C,A,C2T)	60 Gal.	30 inches	47 inches	29 inches	150,000 BTU	93,000 BTU
	225 Liter	762 mm	1194 mm	736 mm		

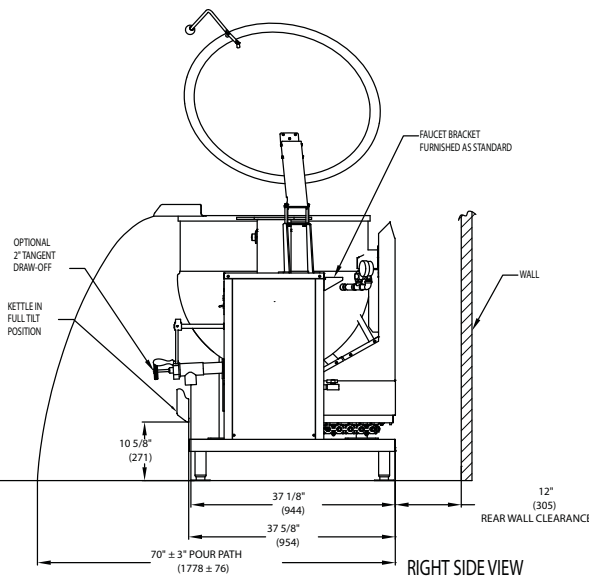
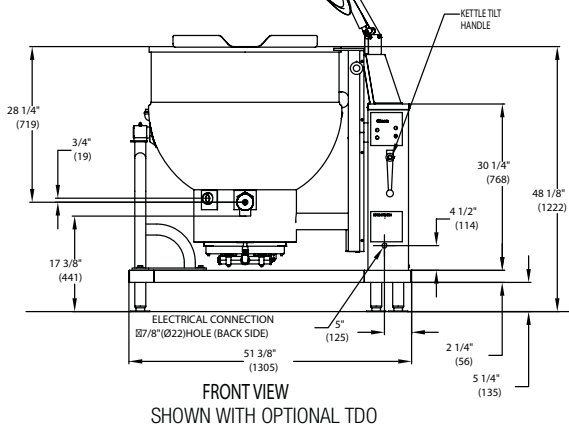




OPERATING GAS PRESSURE	
NATURAL	PROPANE
3.5 in W.C.	10.0 in W.C.

INCOMING GAS PRESSURE TABLE		
TYPE OF GAS	MIN. SUPPLY GAS PRESSURE	MAX. SUPPLY GAS PRESSURE
NATURAL	4.5 W.C.	14.0 W.C.
PROPANE	11.0 W.C.	14 W.C.

- OPTIONAL EXTRA COST FEATURES:**
1. 2" TANGENT SANITARY DRAW-OFF.
 3. COUNTERBALANCED COVER MODEL # 51
 4. OPTIONAL FAUCET WITH SWING SPOUT.
 5. DIMENSIONS IN BRACKETS () ARE MM.



CLASSIC CONTROL



ADVANCED CONTROL



COOK2TEMP CONTROL

PERFORMANCE DATA

Model	Kettle Capacity	Kettle Body Diameter	Base Width	Base Depth	Firing Rate Per Hour	Energy into Product Per Hour
DH-80 (C,A,C2T)	80 Gal.	34 inches	52 inches	37-1/2 inches	150,000 BTU	93,000 BTU
	302 Liter	863 mm	1320 mm	952 mm		





Jefferson Middle School

11/29/2023

ITEM# 40 - FLOOR TROUGH (1 EA REQ'D)

CUSTOM SS

Custom fabricated stainless steel floor trough with removable grates. See detail sheets for type and design. Fabricate per floor plan and detail sheets. Verify size and location requirements with equipment manufacturer's specification sheets. Coordinate location to be installed with Plumbing and General Contractors. Provide shop drawings for approval.



Jefferson Middle School

11/29/2023

ITEM# 41A - CONVECTION STEAMER, GAS, BOILERLESS, DOUBLE-STACKED (1 EA REQ'D)

AccuTemp N61201E060 DBL

(or District Approved equal)

Two Connected Evolution™ Boilerless, Convection Steamers featuring Steam Vector Technology, natural gas, holds (6) 12" x 20" x 2-1/2" deep pans each compartment, Digital Controls, water & drain connection required, warranty NOT voided by water quality, NO water filtration required, 50,000BTU, 120/60/1ph, (2) 5' cords & NEMA 5-15P, cULus, UL EPH Classified, Made in USA, ENERGY STAR® (Includes stand in configuration of choice)

ACCESSORIES

Mfr	Qty	Model	Spec
AccuTemp	1		Door hinged on right standard
AccuTemp	1		SNH-21-01 - Support Stand, for double stacked Steam'N'Hold or Evolution units, Ergo-low mounting height: 8-7/8" lowest unit height, stainless steel, with 5" casters in lieu of standard



N6/P6 DBL CONNECTED EVOLUTION™
2 Double Stacked. Stand-Mounted 6 Pan,
Natural Gas or Propane Boilerless
Convection Steamers

Project: _____ Location: _____ Item #: _____ Quantity: _____

Standard Features

- Fast cook times with patented Steam Vector Technology, which utilizes no moving parts
- Cook mode and Variable Temperature Hold mode
- Steamer powered by a Heavy Duty Stainless Steel Blue Flame Power Burner rated at 50,000 btu/hr
- Easy-to-use digital controls, with digital temperature display
- Independent digital electronic timer with programmable preset
- Simple water and drain connections
- No water filtration or treatment required
- No warranty exclusions for water quality
- Uses less than 1 gallon of water per hour
- Front-mounted drain valve
- Specify Altitude if over 2,000 ft above sea level
- Internal gas regulator
- No scheduled de-liming or maintenance
- Heavy-duty, field-reversible door
- Door can be opened at any time during cooking cycle
- Steamer cavity constructed of reinforced 14 ga. 304 stainless steel
- Easy-to-clean control panel
- Automatic altitude compensation
- Dishwasher-safe one-piece wire pan racks
- Dishwasher-safe SVT steam collector and distributor panels
- Front-mounted condensate tray
- English and Spanish operating instructions on door
- Simplified service access panel
- Low water, high water and overtemp indicator lights
- Recommended that
- (2) 5' power cords and plugs included, separate receptacle needed for each unit
- One year parts and labor warranty
- Lifetime Service & Support Guarantee
- UL LISTED Safety Certification (ANSI Z 83.11)
- UL EPH Sanitation Certification (NSF 4)

Optional Features

- Stainless steel, ergo-low support stand available with casters, bullet feet or flanged feet
- Perforated cooking shelf
- Propane

Safety, Sanitation & Environmental



Pan Capacities - per cavity

Pan Size	Qty.
#200 full size (12x20x2.5")	6
#400 full size (12x20x4")	4

Short Spec

Evolution™ steamer is AccuTemp Products' connected, boilerless steam cooker that utilizes AccuTemp's Patented Steam Vector Technology for faster cook times, improved energy efficiency, better pan to pan uniformity, and less water consumption. Steam Vector Technology requires no moving parts inside the cooking chamber. Steam to be produced inside the cooking cavity with no heating components exposed to water. Unit to be powered by a Heavy Duty Stainless Steel Blue Flame Power burner, Easily connects to water, drain & gas lines. Uses less than 1 gallon of water per hour. Unit to include low water, high water, overtemp warning lights and auto shut off feature. Evolution™ to include heavy duty, field reversible door. Standard digital controls with independent timer. No water quality exclusions to warranty and no water filtration or treatment required. Units to be mounted on a stainless steel support stand. Unit to be UL Safety and Sanitation Certified, and Energy Star qualified. Built in USA.



N6 Evolution™ double stacked connected unit mounted on a stainless steel stand with casters



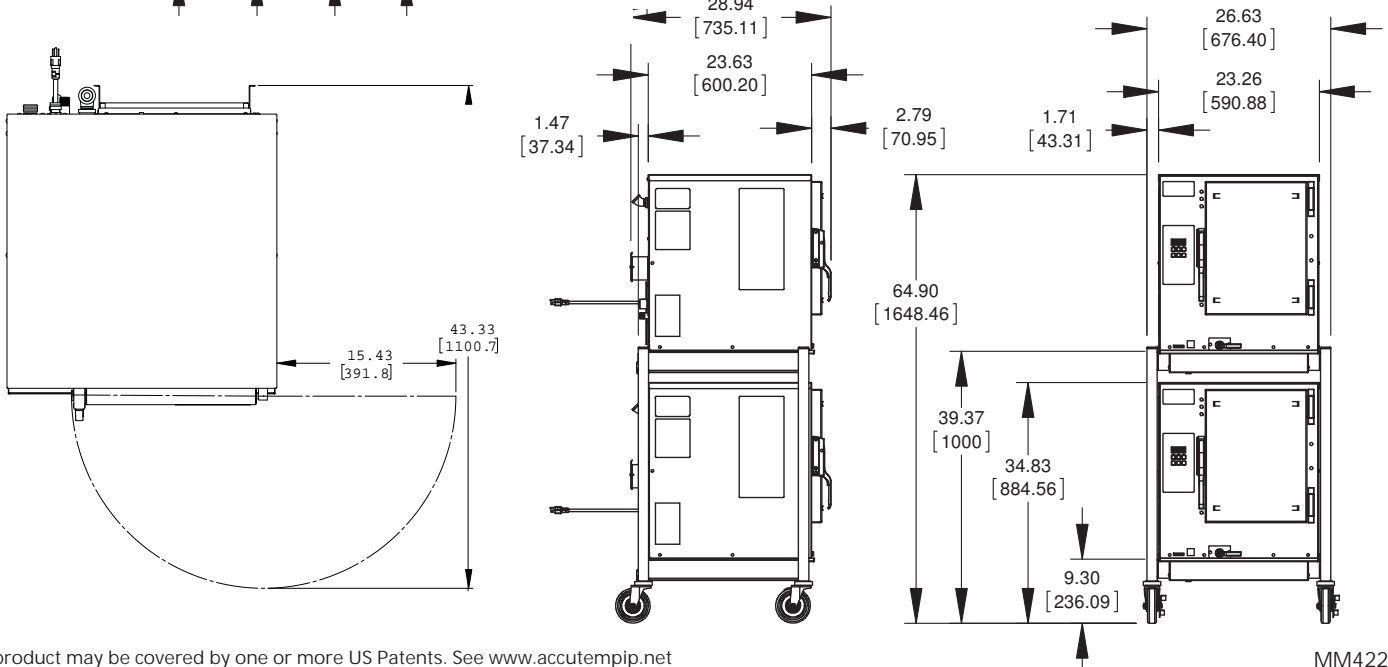
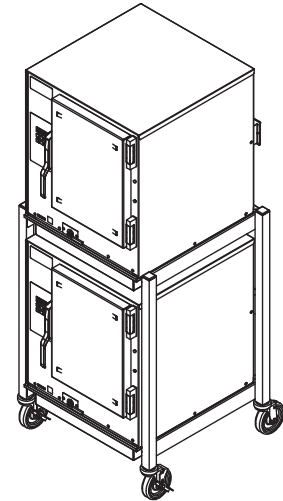
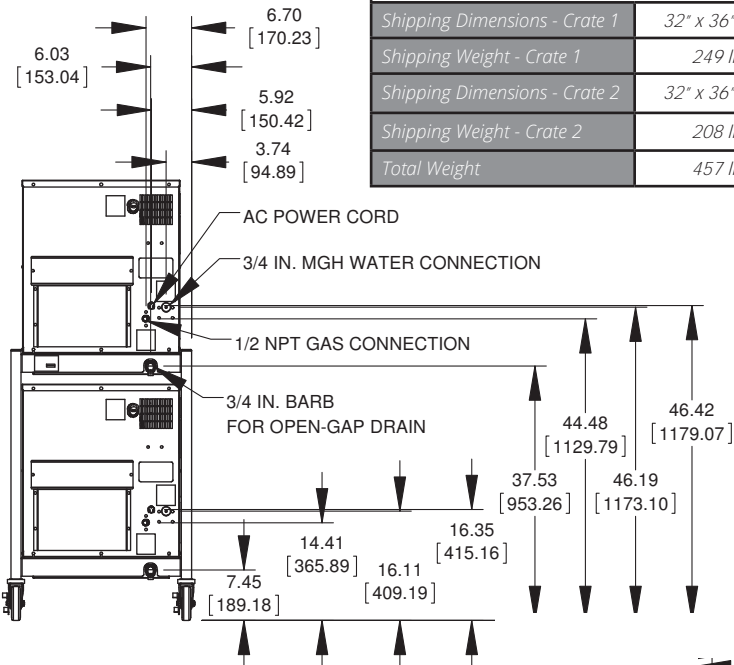
N6/P6 DBL CONNECTED EVOLUTION™
 2 Double Stacked. Stand-Mounted 6 Pan,
 Natural Gas or Propane Boilerless
 Convection Steamers

Gas Steamer Model Specifications per cavity DBL = TWO CAVITIES		
Model #	N61201E DBL	P61201E DBL
Gas Supply	Natural Gas	Propane
Recommended Gas Feed Rate	5" wc min 14" wc max	12" wc min 14" wc max
Gas Operating Pressure	3.5" wc	10.0" wc
Maximum input BTU's/hr	50,000	50,000
Electrical Powered	120v, Single Phase, 60hz, 1 AMP	
NEMA Plug	5-15 three prong plug	

Notes:

1. Allow 3" between fryer, ranges, and other hot surfaces.
2. Each unit equipped with 5' power cord with NEMA 5-15 three prong plug, 120v, single phase, 60hz, 1 AMP.
3. For use on individual branch circuits only.
4. Each unit equipped with 1/2" NPT Threaded Natural Gas or Propane Connection.
5. Dimensions outside brackets are inches, in brackets are millimeters.
6. Each unit equipped with 3/4" male garden hose connector
7. Each unit equipped with 3/4" barbed drain line connector
8. DO NOT plumb a single drain line between the 2 units. Each unit must have a separate open gap type drain line.
9. This appliance not intended for household use.
10. Units equipped with internal Gas Regulator.

Shipping Information	
Shipping Dimensions - Crate 1	32" x 36" x 80"
Shipping Weight - Crate 1	249 lbs
Shipping Dimensions - Crate 2	32" x 36" x 36"
Shipping Weight - Crate 2	208 lbs
Total Weight	457 lbs





Jefferson Middle School

11/29/2023

ITEM# 41B - STEAMER (1 EA REQ'D)

AccuTemp

Included with Double-Stacked Steamer (Item #41A). See Item #41A for more information.



Jefferson Middle School

11/29/2023

ITEM# 42 - WATER FILTRATION SYSTEM, FOR STEAM EQUIPMENT (1 EA REQ'D)

3M Purification SF165

(or District Approved equal)

(5624601) 3M™ Water Filtration Products Water Filtration System, with ScaleGARD™ HT scale control, 3 micron, 125 psi, 3.34 gpm flow rate, 35,000 gallons capacity, reduces sediment, chlorine taste & odor, for high and low-temperature applications, includes: (1) pressure gauge, (1) inlet shut-off valve and (1) outlet check valve, mounting bracket, (1) filter cartridge, & scale-feeding system, 3/4" NPT connections, NSF certified

3M™ Water Filtration Products

SPEC# _____

QUANTITY _____

application:

SCALE CONTROL

model:

SF165

The 3M Purification Inc. Water Filtration Products SF165 ScaleGARD™ HT System helps provide consistent Recipe Quality Water™ with reduced sediment and chlorine taste and odor. Operating cost savings from the controlled and metered addition of scale-inhibitors reduces the ability of calcium and magnesium to precipitate as hard scale in both high and low temperature applications, including ice machines, coffee, tea, espresso brewers and steamers*.

- ScaleGARD HT, SF165 combines chlorine taste and odor reduction with ediment reductions and helps protect against the effects of scale formation at flow rates to 3.34 gpm (12.6 lpm) for 35,000 gallons (132,000 liters).



PRODUCT BENEFITS

- Advanced Integrated Membrane Pre-Activated Carbon Technology ("IMPACT") filtration media combines a membrane in series with premium activated carbon to provide superior throughput and cartridge life.
- Reduced sediment and chlorine taste and odor for equipment protection and great tasting hot and cold beverages and ice.
- A forced-feed orifice carefully controls and meters the addition of a proprietary scale inhibitor to reduce scale build-up on heating coils.
- Superior scale reduction performance in equipment from ice machines to equipment heating water to temperatures over 200°F (93°C).
- Sanitary Quick Change (SQC) HF65 encapsulated cartridge design allows for fast and easy change-outs with a 1/4 turn while minimizing the possibility of leakage and contamination.
- 3/4" FNPT inlet and outlet ports allow direct or easily adaptable connections to existing plumbing lines.
- FDA CFR-21 and/or NSF compliant materials.
- System includes a pressure gauge, inlet shut-off valve and outlet check valve for simple installation and operation.

PRODUCT SPECIFICATIONS

Model Number	Part Number	Reduction Claims	Micron Rating	Capacity	Service Flow Rate	Application	Replacement Cartridge	Sizing
SF165	56186-01	Sediment, Chlorine Taste and Odor, Scale	3	35,000 gallons (132,000 liters)	3.34 gpm (12.6 lpm)	Normal to Hard Water	HF65 (56134-07) HF8-S (55821-06) Cartpak (56138-11)	Ice: Cubers to 1,200 lbs. (544 kg) Flakers to 2,400 lbs. (1,089 kg) Coffee Brewers and Steamers to demand flow rates of 3.34 gpm (12.6 lpm)

* Periodic acid de-liming of heating coils is recommended for steamer applications.



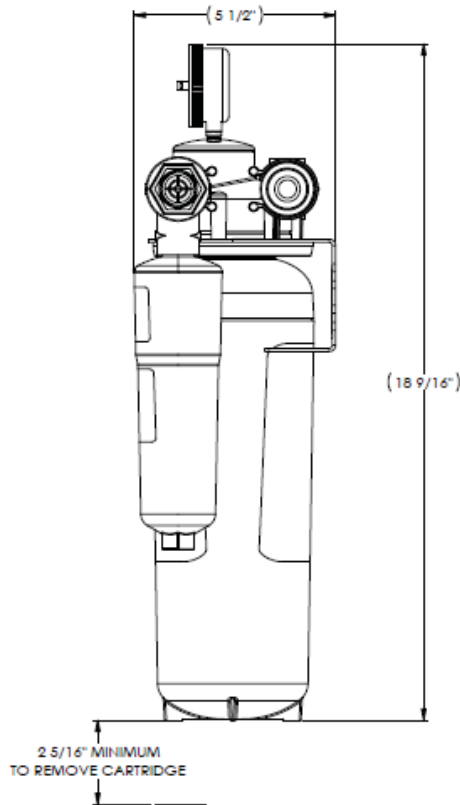
SF165

SPEC# _____
 QUANTITY _____
 MODEL NUMBER _____
 PART NUMBER _____

3M Purification Inc. Water Treatment Products

PHYSICAL SPECIFICATIONS

- System includes a manifold with built-in pressure gauge, inlet water shut-off valve, outlet check valve, mounting bracket, filter cartridge and scale-feeding system.
- Inlet and outlet plumbing connections are 3/4" FNPT.
- Filter cartridges are o-ring seal type.
- System maximum operating pressure of 125 psi (862 kPa) and operating temperatures of 100°F (37.8°C).
- Recommended service flow rate is up to 3.34 gpm (12.6 lpm)
- Filter cartridge incorporates carbon block media protected by a pleated pre-filter membrane.
- All wetted parts and media are FDA CFR-21 compliant.
- Cartridges are sanitary in design, requiring no contact with the filter media during cartridge change-out.
- Filter cartridges requires no pre-activation.
- Shipping Weight: 6 lbs. (2.7 kg).
- Operating Weight: 12 lbs. (5.4 kg).



⚠ WARNING: To reduce the risk associated with the ingestion of contaminants:

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

3M Purification Inc. recommends regularly scheduled maintenance and replacement of the filter cartridge(s) in order for the product to perform as advertised/sold. 3M Purification shall not be liable for system failures due to improper maintenance.

LIMITED WARRANTY

3M Purification Inc. warrants this Product will be free from defects in material and manufacture for five (5) years from the date of purchase. The filter cartridge or filter membrane is warranted to be free from defects in material and manufacture for one (1) year. This warranty does not cover failures resulting from abuse, misuse, alteration or damage not caused by 3M Purification Inc. or failure to follow installation and use instructions. No warranty is given as to the service life of any filter cartridge or membrane as it will vary with local water conditions and water consumption. **3M PURIFICATION INC. MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOMER OR USAGE OF TRADE.** If the Product fails to satisfy this Limited Warranty during the warranty period, 3M Purification Inc. will replace the Product or refund your Product purchase price. This warranty does not cover labor. The remedy stated in this paragraph is Customer's sole remedy and 3M Purification Inc.'s exclusive obligation. For additional information, see the entire Limited Warranty located in the product Installation and Operating Instruction Manual.

Limitation of Liability: 3M Purification Inc. will not be liable for any loss or damage arising from this 3M Purification Inc. product, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability. Some states and countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

IMPORTANT: INSTALLATION TIPS

These installation tips are for informational purposes only and are not intended to be used as actual installation instructions. **CAUTION:** To reduce the risk associated with property damage due to water leakage:

- **Read and follow** Use Instructions before installation and use of this system.
- Installation and use **MUST** comply with all state and local plumbing codes.
- **Protect from freezing**, remove filter cartridge when temperatures are expected to drop below 40°F (4.4°C).
- **Do not install on hot water supply lines.** The maximum operating water temperature of this filter system is 100°F (37.8°C).
- **Do not install** if water pressure exceeds 125 psi (862 kPa). If your water pressure exceeds 80 psi (552 kPa), you must install a pressure limiting valve. Contact a plumbing professional if you are uncertain how to check your water pressure.
- **Do not install** where water hammer conditions may occur. If water hammer conditions exist you must install a water hammer arrester. Contact a plumbing professional if you are uncertain how to check for this condition.
- The disposable filter cartridge **MUST** be replaced every 12 months, at the rated capacity or if a noticeable reduction in flow rate occurs.



3M Purification Inc.
 400 Research Parkway
 Mendon, CT 06450 U.S.A.
 Toll Free: 1.800.243-6894
 Worldwide: 203.237.5541
 Fax: 203.630.4530
 www.3mpurification.com

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 70-0201-9437-2
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Jefferson Middle School

11/29/2023

ITEM# 42.1 - BACKFLOW PREVENTER (1 EA REQ'D)

NIKEC

Furnished and installed by Plumbing Contractor.



Jefferson Middle School

11/29/2023

ITEM# 43A - CONVECTION OVEN, GAS, DOUBLE-DECK (2 EA REQ'D)

Montague 2-115A

(or District Approved equal)

Vectaire Convection Oven, gas, double-deck, bakery depth, thermostatic controls, single speed fan, vertical opening doors with windows, stainless steel top, front & sides, 3" high flue deflector with stainless steel front trim, 6" adjustable legs, 115,000 BTU per deck, NSF, CSA Star

ACCESSORIES

Mfr	Qty	Model	Spec
Montague	2		Natural gas
Montague	2		(2) 120v/60/1ph, 3/4 hp, cord with 3-prong plug
Montague	2		2-Speed fan motor, per deck
Montague	2		Casters with 5" wheel 6" OA (set of 4)



VECTAIRE™ Double Deck, Full-Size Gas Convection Oven

Item No. _____

Project _____

Quantity _____

2-70 & 2-115 Series



Model 2-115A Shown with optional casters.

MODEL-PAN/RACK GUIDE: (For Each Deck)

Model No.	Door Type Top/Bottom	Power Output BTU/hr	Rack Spacing	
			5-racks	9-racks
2-70A	Vert/Vert	70,000	3-3/8" (86mm)	1-1/2" (38mm)
2-70Z	Horiz/Horiz	70,000	3-3/8" (86mm)	1-1/2" (38mm)
2-115A	Vert/Vert	115,000	3-3/8" (86mm)	1-1/2" (38mm)
2-115Z	Horiz/Horiz	115,000	3-3/8" (86mm)	1-1/2" (38mm)
2-70B	Horiz/Vert	70,000	3-3/8" (86mm)	1-1/2" (38mm)
2-115B	Horiz/Vert	115,000	3-3/8" (86mm)	1-1/2" (38mm)
2-70C	Vert/Horiz	70,000	3-3/8" (86mm)	1-1/2" (38mm)
2-115C	Vert/Horiz	115,000	3-3/8" (86mm)	1-1/2" (38mm)

OVEN INTERIOR CONSTRUCTION [EACH]:

- Porcelainized 16-gauge steel interior
- 27" (686mm) (Bakery Depth) interior accepts pans lengthwise or sideways
- Nine-position bright nickel rack guides
- Five bright nickel pan racks, with rack-stop and no-tip guides standard
- 4" (102mm) of insulation compressed to 2" (51mm) with metal sheathing
- Two covered interior lights

BURNERS & BLOWER SYSTEMS [EACH DECK]:

- Indirect-heated "muffled oven" design
- Fully welded dual steel pipe and cast iron burner
- 16-gauge stainless steel removable burner baffle
- Dependable standing pilot ignition
- Blower with space-saving, 3/4-horsepower single-speed pancake motor

EXTERIOR CONSTRUCTION FEATURES:

- Satin finish stainless steel front
- Aluminized steel top, sides, back and flue deflector
- Choice of vertical [A], horizontal [Z] or door combinations [B/C]
- Ball bearing mounted 50-50 split double doors
- Double pane thermal viewing windows (vertical doors only)
- Single tubular grab handle opens both doors
- Horizontal door models [Z] provide pan loading/unloading surface
- 6" (152mm) stainless steel legs, with adjustable bullet feet
- 6' (1829mm) power cord with grounded NEMA 5-15P plug

CONTROL FEATURES [EACH DECK]:

- Power/fan speed control (single speed fan)
- Automatic fan cutoff when door is opened (except in cool-down)
- Momentary-ON interior light switch
- 60-minute electric countdown timer with alarm
- E Suffix:**
 - Snap-action electric 150-500°F (66-260°C) thermostat
 - Burner-ON indicator light
- G Suffix:**
 - Throttling-type gas thermostat with 150-500°F (66-260°C) range
 - Burner-ON indicator light

AGENCY APPROVALS

- NSF Listed
- CSA Designedd Certified to ANSI Z83.11-CSA 1.8



VCO-6 [Rev. 2/17]

SHORT/BID SPECIFICATION

Convection oven shall be a Montague *Vectaire* double deck, bakery depth Model [Specify one]:

- 2-70 with 70,000 BTU/hr output [Specify door type combo]
- 2-115 with 115,000 BTU/hr output and [Specify Door Type Combination — See Model Guide];

[Specify one] individual:

- E** [Suffix] snap action 200-500°F (93-260°C) thermostats with burner-ON indicator light
- G** [Suffix] throttling-type gas 150-500°F (66-260°C) thermostats with burner-ON indicator light

...plus automatic fan shutoff, cool-down mode, momentary-ON light switch and 60 minute electric timer; and porcelainized steel oven interiors with: one speed fan, nine rack positions, five bright nickel racks with rack stops and no-tip guides standard; ball bearing mounted 50-50 split doors with double pane viewing windows, and stainless steel 6" (152mm) legs; plus all the features listed and options/accessories checked:

VECTAIRE™ Double Deck, Full-Size Gas Convection Oven

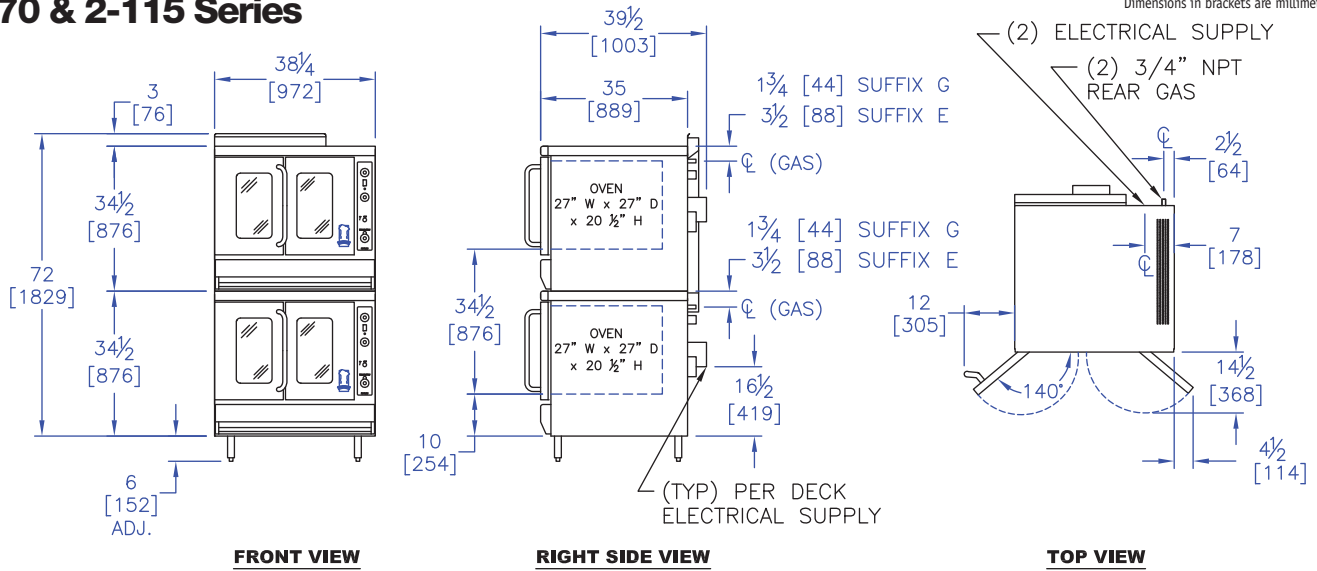
Item No. _____

Project _____

Quantity _____

2-70 & 2-115 Series

Dimensions in brackets are millimeters



OPTIONS GUIDE:

Installation Alternatives:

- Stacking Kit (for bottom unit)
- Flexible Gas Quick-Disconnect Kit [With restraint]
- Casters [Set of four 5" (127mm) plate casters]
- Stainless steel downdraft diverter
- Heat Shield Kit
- 1" NPT Manifold Assembly for Single Gas Inlet
- 1" (25mm) Toe Base for curb mounting

Electric & Motor Alternatives:

- [*Extra cost, includes 3-phase motor]
- Electronic ignition [Suffix -EI, A Models only]
- 2-speed motor [1-phase only]
- Solid state thermostats [Vertical doors only]
- 120-volt, 1-Phase, 60 Hz 7.4 AMP w/6' (1.8m) cord
- 208-240-Volt, 1-Phase, 60 HZ, 4.1 AMP, 3-wire
- *208-240-Volt, 3-phase, 60 HZ, 3.0 AMP, 4-wire
- *440-480-Volt, 3-phase, 60 HZ, 1.4 AMP, 4-wire

Finish:

- Full stainless steel oven interior [-ASC]
- Stainless steel louvered back panel
- Stainless steel flue deflector
- Exterior stainless steel bottom

Racks & Security:

- Stainless steel drip trays: ____ ea.
- Extra Racks: __ ea. standard __ ea. heavy-duty
- 11-position rack guides [set of four]
- Security Options [Consult Factory]
- Solid Doors [Vertical Doors Only]
- Independent doors [vertical doors only]

INSTALLATION REQUIREMENTS & SHIPPING INFORMATION

- Ovens must be installed in accordance with local codes in their absence with the National Fuel Gas Code: ANSI Z223.1; CAN/CGA-B149.1 Natural Fuel Gas and Propane Installation code, as applicable. Compliance with codes is the responsibility of the Owner and Installer.
- An adequate ventilation system is required. Refer to National Fire Protection Association Standard No. 96, Standard for Ventilation and Fire Protection of Commercial Cooking Operations.
- This appliance is intended for commercial use by professionally trained personnel.
- NOT intended for Residential Use.
- Specify installation elevation:** _____ if above 2000 feet (610m).
- GAS INLET SIZE (All Models):** Two ¾" NPT gas connections provided at left-rear. Two ¾" NPT gas pressure regulators are provided and must be installed (by others) when unit is connected to gas supply.
- The incoming gas line pressure into the regulator should be 8"-14" w.c. for natural gas, and 12"-14" w.c. for propane gas.

Minimum Clearances	Combustible Construction	Noncombustible Construction
From Back Wall	6" (152mm)	5" (127mm)
Left & Right Side	6" (152mm)	0"
With 6" (152mm) legs	Suitable for installation on combustible floors	
Curb mounted: For use only on noncombustible counter or floors with 1" (25mm) toe base.		

Specify Type of Gas:		<input type="checkbox"/> Natural	<input type="checkbox"/> Propane	Shipping Weight	Shipping Class	Cube (Crated) ft ³ /m ³
Gas Delivery Pressure:		3.5" WC	10.0" WC			
Models:	Burners	BTU/hr (kW)*	BTU/hr (kW)*			
2-70 Series	1 Per Deck	70,000 (20.5) Per Deck	70,000 (20.5) Per Deck	1,138 lbs (516 kg)	70	2 x 37/1
2-115 Series	1 Per Deck	115,000 (33.7) Per Deck	90,000 (26.4) Ped Deck	1,138 lbs (516 kg)	70	2 x 37/1
Entry Clearance: 34-3/4" (883mm) uncrated						



THE MONTAGUE COMPANY

1830 Stearman Avenue, Hayward, CA 94545
 800 345-1830 • Fax: 510 785-3342
 www.montaguecompany.com

Due to continuous product improvements, specifications are subject to change without notice.



VCO-6 [Rev. 2/17]



Jefferson Middle School

11/29/2023

ITEM# 43B - CONVECTION OVEN (2 EA REQ'D)

Montague

(or District Approved equal)

Included with Double-Stacked Convection Ovens (Item #43A). See Item #43A for more information.



Jefferson Middle School

11/29/2023

ITEM# 44 - BUN / SHEET PAN RACK (6 EA REQ'D)

GSW USA AAR-2022W

(or District Approved equal)

Bun Pan Rack, open sides, (20) 18" x 26" pan capacity, 2-1/2" spacing, welded angle slides, 6" casters (2) with brake, all welded 1" aluminum tubing, ETL

ACCESSORIES

Mfr	Qty	Model	Spec
GSW USA	6	AAR-20CC	Bun Pan Rack Cover, fits: 21"L x 26"W x 70"H pan racks, (2) zipper, clear plastic



All Welded Aluminum Racks

All Welded Enclose Mobile Pan Cabinet



Item No.	AAR-40
Dimension (in)	20-3/4 x 26-3/4 x 67-7/8
Pan Size	18 x 26
G. W. (lb)	87
Pan Capacity	40

- For 18" width bun pans
- Welded angle slides
- non-insulated
- 1-1/2" between tracks

KP6112 (6" casters)



Electric Enclose Mobile Pan Cabinet



Item No.	AAR-40E
Dimension (in)	20-1/2 x 29-3/4 x 66-1/2
Pan Size	18 x 26
G. W. (lb)	136
Pan Capacity	35

- For 18" width bun pans
- 12 amps, 120V & 1,440W
- 1-1/2" between tracks

KP6112 (6" casters)



All Welded Bun Rack



Item No.	AAR-2022W
Dimension (in)	20-1/4 x 26 x 70
Pan Size	18 x 26
G. W. (lb)	34
Pan Capacity	20

- For 18" width bun pans
- Welded angle slides

KS6114 (6" casters)



All Welded Half Size Pan Rack



Item No.	AAR-0922W
Dimension (in)	20-1/4 x 26 x 42
Pan Size	18 x 26 x
G. W. (lb)	25
Pan Capacity	9

- For 18" width bun pans
- Welded angle slides

KS6114 (6" casters)



All Welded Can Rack



Item No.	AAR-CRAW
Dimension (in)	26 x 35 x 71
Levels	9
G. W. (lb)	57

- Holds up 18 cans (#10), or 24 cans (#5)
- Easy product access
- selection convenient inventory

KS6113CR (6" casters)



All Welded Half Size Can Rack



Item No.	AAR-CRAW41
Dimension (in)	25 x 35 x 42
Levels	4
G. W. (lb)	51

- Holds up 18 cans (#10), or 24 cans (#5)
- Easy product access
- Mobile countertop alloy construction 3/16"

KS6113CR (6" casters)





Jefferson Middle School

11/29/2023

ITEM# 45 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 46 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 47 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 48 - MOBILE HEATED CABINET (2 EA REQ'D)

Cres Cor H137SUA12DSD

(or District Approved equal)

Cabinet, Mobile Heated, insulated, top-mount heater assembly, lockable slide bolt door latches, (12) sets extruded aluminum transport angles, slides on 4-1/2" centers adjustable 1-1/2" centers, side impact panels, field reversible dutch doors, solid state electronic control, LED digital display, full perimeter bumper, rear push/pull handle, dry erase panel, (4) heavy duty 6" modulus casters (2) braked, stainless steel construction, NSF, cCSAus, ENERGY STAR®

ACCESSORIES

Mfr	Qty	Model	Spec
Cres Cor	2		120v/60/1-ph, 1.5 kW, 12.0 amp, 10 ft power cord, NEMA 5-15P, standard
Cres Cor	2		Right-hand door swing (top & bottom doors), standard
Cres Cor	2		Cord Wrap for insulated cabinet, standard



JOB: _____

ITEM NO: _____

INSULATED STAINLESS STEEL SUPER DUTY HOT CABINET SERIES

FEATURES AND BENEFITS:

- Fully insulated hot cabinet keeps prepared foods at safe serving temperatures.
- Available in Full Size, 3/4 Size or half size units with locking universal transport angles accommodate a variety of pan sizes on adjustable 1-1/2" centers.
- Powerful, yet efficient, 1500 Watt heating system maintains the right temperature to properly hold products. Heats up to 200°F (93°C).
- Standard solid state electronic control with large, clear, easy-to-read and operate LED digital display to ensure holding at precise food temperature.
- Internal frame in body maintains structural rigidity.
- Full perimeter bumper, rear push/pull handle and dry erase panel come standard on all models.
- Stainless steel construction throughout for ease of cleaning. One piece extended base protects cabinet body.
- Super duty composite side impact panel protection with ergonomic grips on both sides prevents damage to walls; allows for easy maneuvering.
- Insulated Dutch doors prevent temperature loss. Standard with right hand hinging; left hand hinging available upon request.
- Lockable slide bolt door latches ensure the doors stay closed even during the roughest transport.
- Smooth interior coved corners prevent food particle/grease buildup.
- Heavy duty 6" modulus casters, two with brakes. Provides mobility when fully loaded.



H-137-SUA-12D-SD



Standard solid state electronic control with large, clear, easy-to-read and operate LED digital display to ensure holding at precise food temperature

ACCESSORIES and OPTIONS (Available at extra cost):

- Extra Transport Angles
- 208 or 240 Volt Service
- Upgrade to 2000 Watt Power Unit

See page B-30 for accessory details.

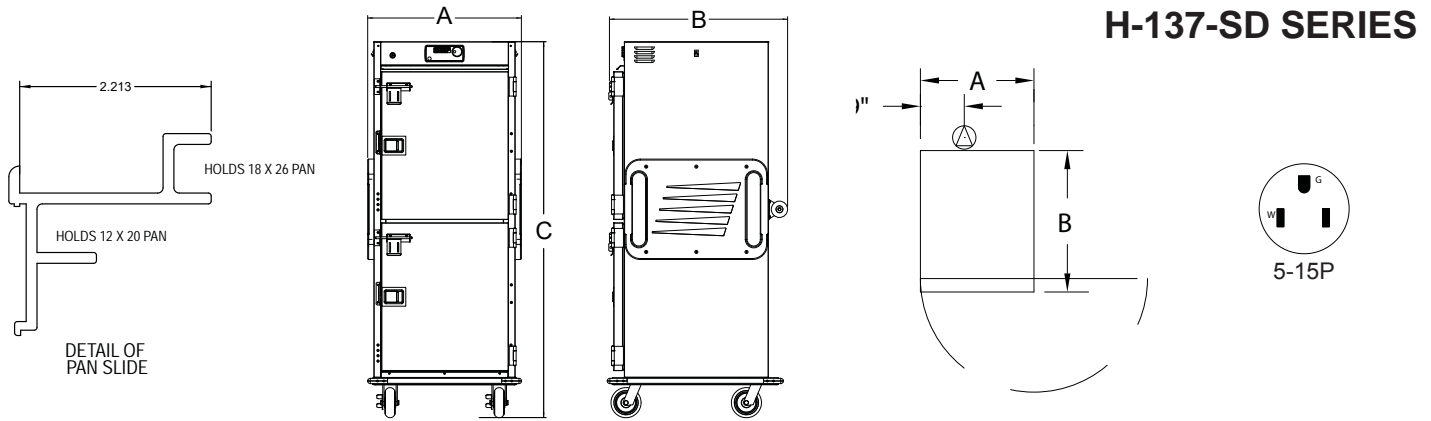


5925 Heisley Road • Mentor, OH 44060-1833
Phone: 877/CRESCOR • Fax: 440/350-7267
www.crescor.com



Gold indicates our Best Insulated Hot Cabinets with the best warranty in the industry.
3-Year Parts / 1-Year Labor.

Page B-5.7
Sept., 2017



H-137-SD SERIES

CRES COR MODEL NO.	ANGLES	CAPACITY/ PAN SIZE		DIM			INSIDE DIMENSIONS				WEIGHT ACT.
				WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH	HEIGHT		
H-137-SUA-12D-SD	12 SETS	(12) 18 x 26 or (24) 12 x 20	IN	30-1/2	34-7/8	74-3/8	22	26-7/8	58	LBS	374
			MM	775	885	1890	560	685	1475	KG	170
H-137-SUA-9D-SD	9 SETS	(9) 18 x 26 or (18) 12 x 20	IN	30-1/2	34-7/8	58-5/8	22	26-7/8	42	LBS	312
			MM	775	885	1490	560	685	1070	KG	142
H-137-SUA-6D-SD	6 SETS	(6) 18 x 26 or (12) 12 x 20	IN	30-1/2	34-7/8	44-3/8	22	26-7/8	28	LBS	262
			MM	775	885	1130	560	685	715	KG	118



Gold indicates our Best Insulated Hot Cabinets with the best warranty in the industry.
3-Year Parts / 1-Year Labor.

CABINET:

- Body: 22 ga. stainless steel.
- Reinforcement: Internal framework of 18 ga. 304 stainless steel.
- Insulation: Fiberglass, thermal conductivity (K factor) is .23 at 75°F. 1-1/2" in doors, base top; 2" in sidewalls.
- Air tunnels: 22 ga. stainless steel; lift-out type, mounted on sides.
- Push/pull handle: Welded stainless steel with end bumpers; rear mounted.
- Interior coved corners.
- Super Duty composite side impact panel with ergonomic grips.
- Supplied with magnetic white erasable board, 12" x 12".

BASE:

- One piece construction, .125 aluminum; extended in rear for toe kick.
- Casters: 6" dia., modulus tires, 2" wide, load cap. 450 lbs. each, temp. range -40°/+180°F. Sealed ball bearings; permanently lubricated. Front casters equipped with brakes.
- Perimeter bumper: 1" non-marking gray rubber.

DUTCH DOORS:

- Formed 22 ga. stainless steel.
- Hinges: 11 ga. stainless steel, butt type.
- Gaskets: Perimeter type, silicone.
- Pan stop: Embossed.
- Latches: Polished stainless steel, slam type; flush mounted.
- Transport Latch: 12 ga. stainless steel slide with lockable hasp.

TRANSPORT PAN SLIDES:

- Extruded aluminum; mounted on locking lift-off posts.
- Spaced on 4-1/2" centers; adjustable on 1-1/2" centers.

HOT UNIT COMPONENTS:

- Thermostat: Solid state digital display control, room ambient to 200°F (93°C).
- Switch: ON-OFF push button type.
- Power cord: Permanent, 10 ft., 14/3 ga.
- Heater: 1470 Watts (960 Watts for -UA6D)
- Blower motor.
- Vent Fan.
- Thermometer: Digital.

POWER REQUIREMENTS:

- For H137SUA9D and H137SUA12D: 1500 Watts, 120 Volts, 60 Hz., single phase, 12 Amps., 15 Amp. service.
- For H137SUA6D: 1000 Watts, 120 Volts, 60 Hz., single phase, 8.3 Amps., 15 Amp. service.

SHORT FORM SPECIFICATIONS

Cres Cor Insulated Hot Cabinet Model H-137-SUA-___D. Solid state electronic controlled time and temperatures. Cabinet 22 ga. stainless steel; stainless steel internal frame. (___) sets locking transport angles for multiple pan sizes, adjustable spacing every 1-1/2". Dutch doors, 22 ga. stainless steel. Fiberglass insulation in sides, 2"; doors, base, top 1-1/2". Interior coved corners. 1500 or 1000 Watt, 120 Volt power unit. One piece insulated base, .125 aluminum. 6" modulus casters, ball bearings. Load capacity 450 lbs. each. 3-Year Parts / 1-Year Labor warranty. Provide the following accessories: _____ NSF, CSA-US, CSA-C listed. Energy Star Qualified.

In line with its policy to continually improve its products, CRES COR reserves the right to change materials and specifications without notice.



Scan QR code to view Spec Sheet, Operating Manual, Wiring Diagram or to call Customer Service.

If you need a QR reader visit your App Store on your Smartphone or Tablet.

CRES COR

5925 Heisley Road • Mentor, OH 44060-1833
Phone: 877/CRES COR • Fax: 440/350-7267
www.crescor.com

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Made in America Since 1936



Jefferson Middle School

11/29/2023

ITEM# 49 - PASS-THRU REFRIGERATOR (1 EA REQ'D)

Continental Refrigerator D2RNSSPT

(or District Approved equal)

Designer Line Refrigerator, pass-thru, two-section, self-contained refrigeration, stainless steel exterior & interior, standard depth cabinet, full-height stainless steel doors, cylinder locks, electronic control with digital display, hi-low alarm, 6" stainless steel legs, R290 hydrocarbon refrigerant, 1/3 HP, ENERGY STAR®

ACCESSORIES

Mfr	Qty	Model	Spec
Continental Refrigerator	1		115v/60/1-ph, 6.9 amps, cord, NEMA 5-15P, standard
Continental Refrigerator	1		Left door hinged on left & right door hinged on right, standard(control side)
Continental Refrigerator	1		Left door hinged on left & right door hinged on right, standard (rear)
Continental Refrigerator	1		6" stainless steel adj. legs standard
Continental Refrigerator	1	50-P008A	Pan Slide Assembly, full section for 18 x 26 or (2) 18 x 14 pans on 3" centers, bottom support, stainless steel angle (holds 16 per full section)
Continental Refrigerator	1		NOTE: Please specify location of pan slides

DESIGNER LINE REFRIGERATOR

Model: D2RNPT

Natural Refrigerant R-290 Model

Designer Line

2-Section Pass-Thru Refrigerator



ENERGY STAR® Qualified Commercial Refrigerator

D2RNPT - Stainless steel front, aluminum end panels and interior

D2RNSAPT - Stainless steel exterior, aluminum interior

D2RNSST - Stainless steel exterior and interior



Options and Accessories

(upcharge and lead times may apply)

Additional epoxy coated steel shelves	Pan slide assemblies
Chrome or stainless steel shelves	Custom laminates
Half doors	Special electrical req. (consult factory)
Hinged glass door (consult factory)	Correctional Facility Options
Rehinging of doors (consult factory)	<ul style="list-style-type: none"> One way security screws
Wine rack	<ul style="list-style-type: none"> Locking hasp (lock not included)
Casters	<ul style="list-style-type: none"> Stainless steel mesh cover Coverless hinges

Consult factory for other model configurations, options and accessories.

Continental
Refrigerator

Toll-Free: 800-523-7138
Phone: 215-244-1400
Fax: 215-244-9579

539 Dunksferry Road
Bensalem, PA 19020
www.continentalrefrigerator.com

Project Name:

Model Specified:

Location:

Item No:

Quantity:

AIA #:

SIS #:

Standard Model Features

REFRIGERATION SYSTEM

Self contained, performance rated "plug" refrigeration system

Natural, environmentally safe, high efficiency R-290 refrigerant¹

Refrigeration system is readily accessible on top of cabinet, separate from the "food zone"

Automatic, hot gas condensate evaporator

Expansion valve system

CABINET ARCHITECTURE

3" non-CFC polyurethane foam insulation

Smooth, polished chrome workflow door handles

Cam action, lift off hinges

Self-closing doors

Magnetic snap-in Santoprene™ door gaskets

Cylinder lock in each door

Heavy duty pilaster strips

Heavy duty, epoxy coated steel shelves

Adjustable 6" stainless steel legs

MODEL FEATURES

LED interior lighting

Electronic controller with digital display & hi-low alarm

Off-cycle defrost

Top and side air distribution ducts

Cabinet upper side panels and refrigeration "plug" system can be removed and reinstalled at job site

¹ R-290 refrigerant meets all federal and state regulatory requirements.

APPROVAL:

Model Specifications

DIMENSIONAL DATA

Net Capacity (cubic feet)	50 (1416 cu l)
Width, Overall (inches)	52 (1321 mm)
Depth, Overall (inches) (including handles)	38 3/4 (984 mm)
Depth (inches) (less doors)	32 (813 mm)
Depth (inches) (doors open 90°)	79 (2007 mm)
Clear Door Width (inches)	19 3/8 (492 mm)
Clear Door Height (inches)	58 5/8 (1489 mm)
Height, Overall (inches) (including 6" legs)	83 1/4 (2115 mm)
Number of Doors	4
Number of Shelves	6
Shelf Area (square feet)	40.8 (3.8 sq m)
Tray Slide Capacity (per section)	24

REFRIGERANT DATA

Condensing Unit Size (H.P.)	1/3+
Capacity (BTU per hour)*	2560

ELECTRICAL DATA

Voltage (International)	115/60/1 (220/50/1)
Feed Wires (including ground)	3
Total Amps (International)	6.4 (4.7)
10 ft. Cord/Plug [attached] (International)	Yes (No)

SHIPPING DATA

Height - Crated (inches)	85 1/2 (2172 mm)
Width - Crated (inches)	64 (1626 mm)
Depth - Crated (inches)	42 (1067 mm)
Volume - Crated (cubic feet)	133 (3766 cu l)
Weight Std - Crated (pounds)	595 (270 kg)
Weight SS - Crated (pounds)	625 (283 kg)

* Rating @ +25°F evaporator, 90°F ambient
 Figures in parentheses reflect metric equivalents rounded to the nearest whole unit.



Equipped with one NEMA-5-15P Plug
 (varies by country)



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 Fax: 215-244-9579

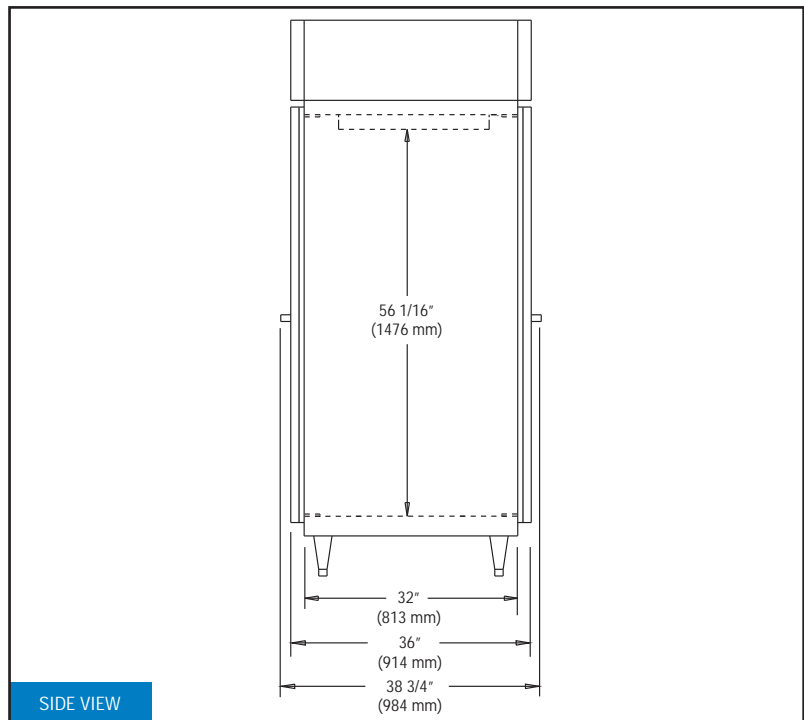
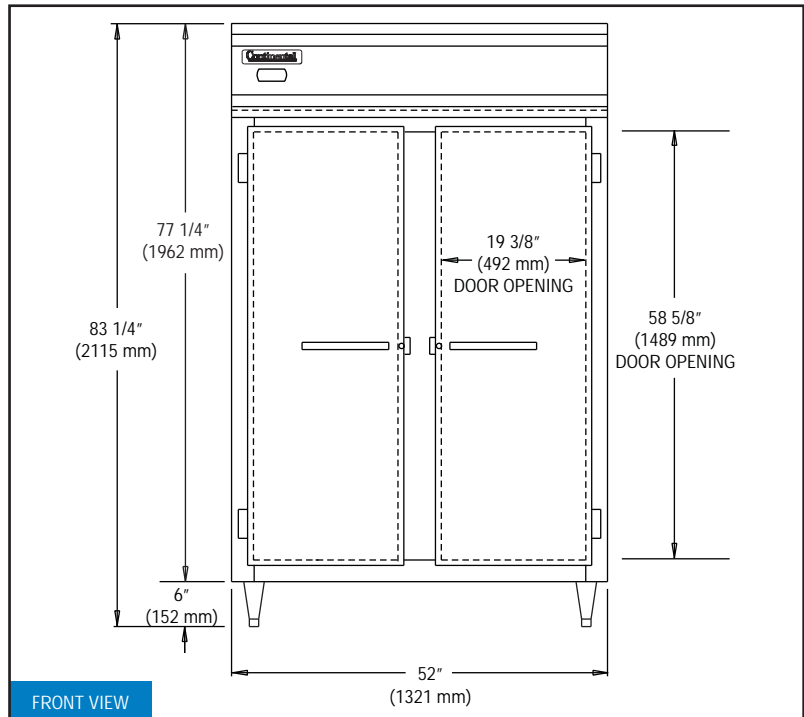
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www.continentalrefrigerator.com

Due to our continued efforts in developing innovative products, specifications subject to change without notice.



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Model Plan Views



IMPORTANT NOTE: If the cabinet is located under a low ceiling, a minimum clearance of 12" is required on top and 3" on sides.



Jefferson Middle School

11/29/2023

ITEM# 50 - PASS-THRU HEATED CABINET (1 EA REQ'D)

Continental Refrigerator DL2W-SS-PT

(or District Approved equal)

Designer Line Heated Cabinet, pass-thru, two-section, 50 cu.ft. capacity, (3) shelves per section, stainless steel exterior & interior, standard depth cabinet, narrow full-height doors, electronic control with digital display, hi-low alarm, cETLus, NSF, Made in USA, cETLus, NSF

ACCESSORIES

Mfr	Qty	Model	Spec
Continental Refrigerator	1		208-230v/60/1-ph, 10.6 amps, 2.25 kW, cord & plug supplied by others
Continental Refrigerator	1		Left Door hinged on left & right door hinged on right, (control side) standard
Continental Refrigerator	1		Left Door hinged on left & right door hinged on right, (rear) standard
Continental Refrigerator	1		6" stainless steel adj. legs, standard
Continental Refrigerator	1	50-P008A	Pan Slide Assembly, full section for 18 x 26 or (2) 18 x 14 pans on 3" centers, bottom support, stainless steel angle (holds 16 per full section)
Continental Refrigerator	1		NOTE: Please specify location of pan slides

DESIGNER LINE WARMER

Model: **DL2W-PT**

Designer Line

2-Section Pass-Thru Warmer

DL2W-PT - Stainless steel front, aluminum end panels and interior
 DL2W-PT-SA - Stainless steel exterior, aluminum interior
 DL2W-PT-SS - Stainless steel exterior and interior



Options and Accessories

(upcharge and lead times may apply)

Stainless steel case back	Rehinging of doors (consult factory)
Additional chrome plated steel shelves	Special electrical req. (consult factory)
Stainless steel shelves	Correctional Facility Options
Pan slide assemblies	• One way security screws
Casters	• Locking hasp (lock not included)
Custom laminates	• Stainless steel mesh cover
Half doors	• Coverless hinges
Hinged glass doors (consult factory)	

Consult factory for other model configurations, options and accessories.

Continental[®]
 Refrigerator

Toll-Free: 800-523-7138
 Phone: 215-244-1400
 Fax: 215-244-9579

539 Dunksferry Road
 Bensalem, PA 19020
www.continentalrefrigerator.com

Project Name:

Model Specified:

Location:

Item No:

Quantity:

AIA #:

SIS #:

Standard Model Features

HEATING SYSTEM

Self contained, performance rated heating system
 90°F to 180°F temperature range
 Top mounted heating plenum "plug" with circulating fan
 Unique air flow distribution ducts

CABINET ARCHITECTURE

3" non-CFC polyurethane foam insulation
 Smooth, polished chrome workflow door handles
 Cam action, lift off hinges
 Self-closing doors
 Magnetic snap in Santoprene™ door gaskets
 Cylinder lock in each door
 Heavy duty, chrome plated steel shelves
 Heavy duty pilaster strips
 Adjustable 6" stainless steel legs

MODEL FEATURES

Automatic interior lighting
 Electronic controller with digital display & hi-low alarm
 Stainless steel strip heaters located in base of interior

APPROVAL:

Model Specifications

DIMENSIONAL DATA

Net Capacity (cubic feet)	50 (1416 cu l)
Width, Overall (inches)	52 (1321 mm)
Depth, Overall (inches) (including handles)	35 $\frac{3}{8}$ (899 mm)
Depth (inches) (less doors)	32 (813 mm)
Depth (inches) (doors open 90°)	55 $\frac{1}{2}$ (1410 mm)
Clear Door Width (inches)	19 $\frac{3}{8}$ (492 mm)
Clear Door Height (inches)	58 $\frac{5}{8}$ (1489 mm)
Height, Overall (inches) (including 6" legs)	83 $\frac{1}{4}$ (2115 mm)
Number of Doors	4
Number of Shelves	6
Shelf Area (square feet)	40.8 (3.8 sq m)
Tray Slide Capacity (per section)	19

ELECTRICAL DATA

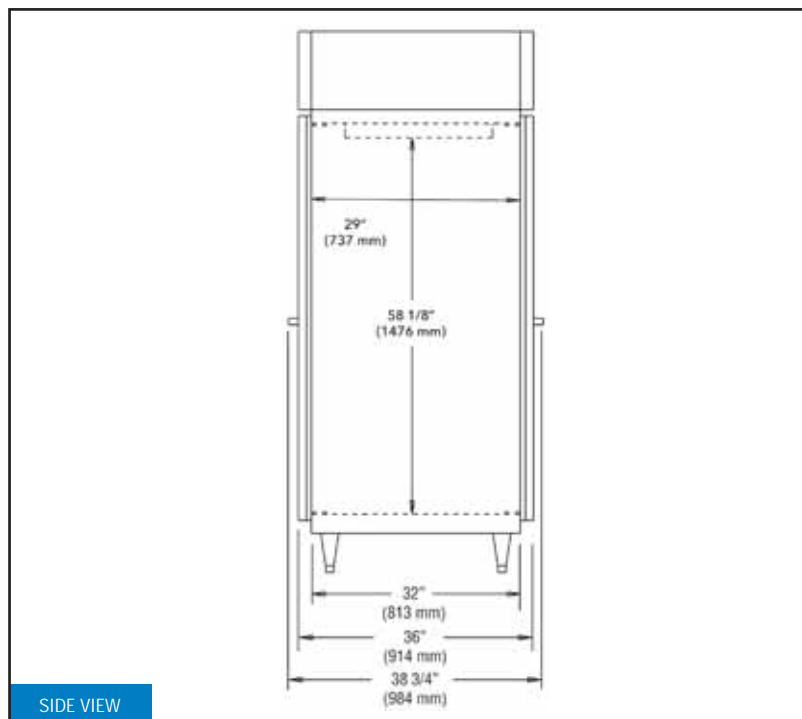
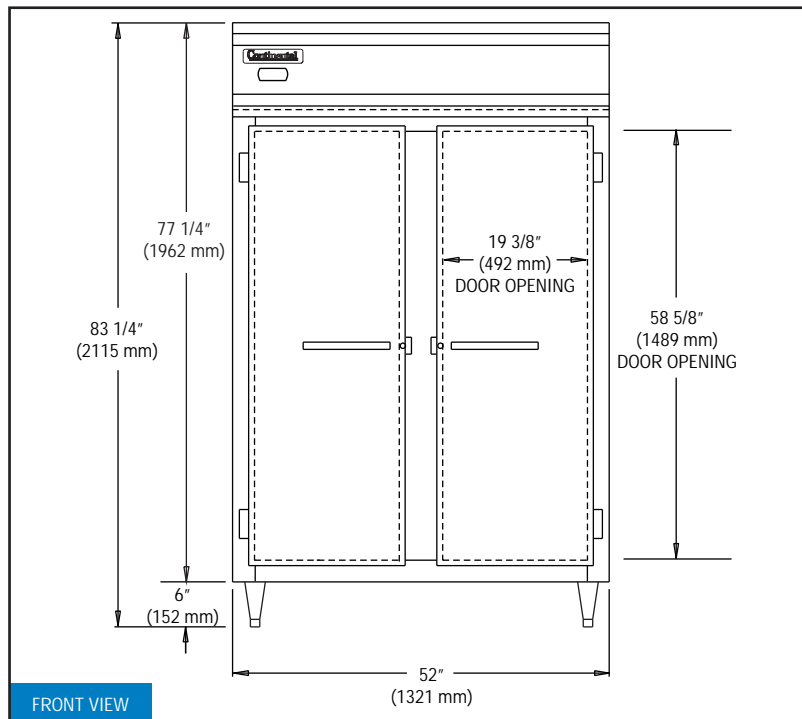
Voltage	208-230/60/1
Feed Wires (including ground)	3
Total Amps (International)	10.6 (10.6)
Total Wattage @ 208-230 volts	2250
10 ft. Cord/Plug (International)	No (No)

SHIPPING DATA

Height - Crated (inches)	85 $\frac{1}{2}$ (2172 mm)
Width - Crated (inches)	64 (1626 mm)
Depth - Crated (inches)	42 (1067 mm)
Volume - Crated (cubic feet)	133 (3766 cu l)
Weight Std - Crated (pounds)	433 (196 kg)
Weight SS - Crated (pounds)	455 (206 kg)

Figures in parentheses reflect metric equivalents rounded to the nearest whole unit.

Model Plan Views



IMPORTANT NOTE: If the cabinet is located directly against a wall and/or under a low ceiling, a minimum clearance of 12" is required on top and 3" on sides and rear.

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REVISED: 8/15/2022



Jefferson Middle School

11/29/2023

ITEM# 51 - MOBILE WORK TABLE (2 EA REQ'D)

CUSTOM SS

Custom fabricated stainless steel work table on heavy-duty NSF approved locking casters with fixed under-shelf welded to 1-5/8" stainless steel tubular legs with fully welded cross bracing, as required. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.



Jefferson Middle School

11/29/2023

ITEM# 52 - PREP TABLE (1 EA REQ'D)

CUSTOM SS

Custom fabricated stainless steel prep table. To include: 6" stainless steel backsplash along all wall edges and stainless steel fixed under-shelf welded to 1-5/8" stainless steel tubular legs with fully welded cross bracing and adjustable bullet feet. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.



Jefferson Middle School

11/29/2023

ITEM# 53 - DOUBLE OVERSHELF (1 EA REQ'D)

CUSTOM SS

Custom fabricated 16-gauge stainless steel double over-shelf. Reinforce full length with stainless steel channels. Swedge countertop and fully weld and polish connections, as required. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.



Jefferson Middle School

11/29/2023

ITEM# 54 - PREP TABLE W/ INTEGRAL HAND SINK (1 EA REQ'D)

CUSTOM SS

Custom fabricated stainless steel prep table. To include: 6" stainless steel backsplash along all wall edges and stainless steel fixed under-shelf welded to 1-5/8" stainless steel tubular legs with fully welded cross bracing and adjustable bullet feet. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.

ACCESSORIES

Mfr	Qty	Model	Spec
CUSTOM SS	1		Integral 10" x 14" x 6" deep hand sink basin with 6" splash guards, as required.



Jefferson Middle School

11/29/2023

ITEM# 55 - HAND SINK, INTEGRAL (1 EA REQ'D)

CUSTOM SS

Integral component of Prep Table (Item #54).



Jefferson Middle School

11/29/2023

ITEM# 55.1 - HANDS FREE ELECTRONIC FAUCET (1 EA REQ'D)

T&S Brass EC-3104-HG

(or District Approved equal)

ChekPoint™ Electronic Faucet, with hydro-generator power supply, deck mount, 4" centers, cast spout 2.2 GPM vandal resistant aerator, AC/DC control module with internal flow control, mixing valve with integral check valves, flexible stainless supply hoses, low lead, ADA Compliant

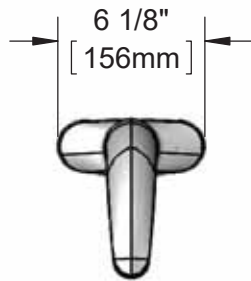


T&S BRASS AND BRONZE WORKS, INC.
 2 Saddleback Cove / P.O. Box 1088
 Travelers Rest, SC 29690

Model No.
EC-3104-HG

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



ADA Compliant



This Space for Architect/Engineer Approval

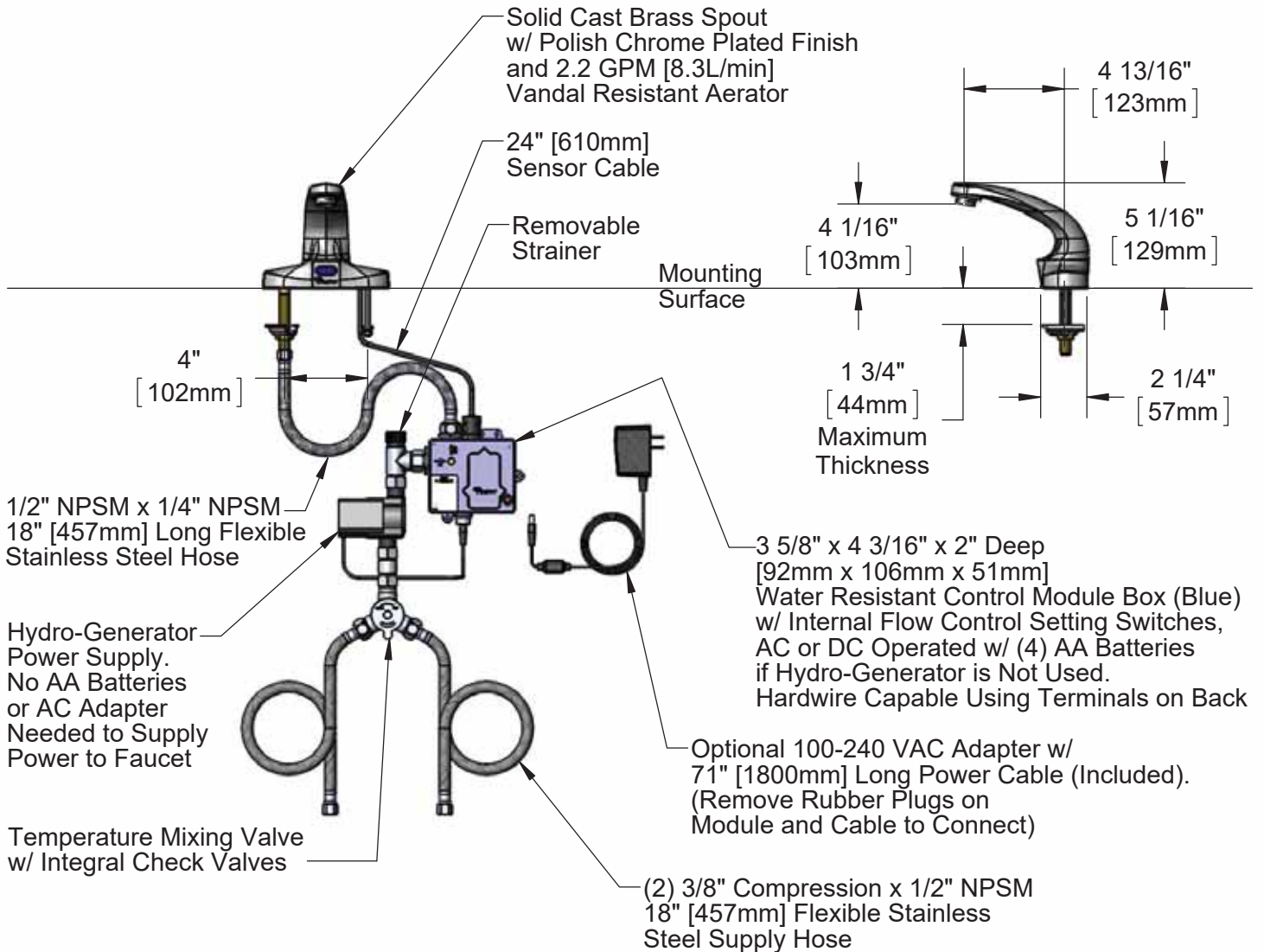
Job Name _____ Date _____

Model Specified _____ Quantity _____

Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____



Rough-In Requirement:
 (2) 1" [25mm] Mounting Holes on 4" [102mm] Centers

Product Specifications:
 Chrome Plated Brass Electronic Faucet: 4" c/c Deck Mount Cast Spout w/ VR Aerator, AC/DC Control Module w/ Internal Flow Control Setting Switches, Temperature Control Mixing Valve w/ Integral Check Valves, Hydro-Generator & 18" Long Hot & Cold Supply Stop Flexible Connector Hoses

Product Compliance:
 ASME A112.18.1 / CSA B125.1
 NSF 61 - Section 9
 NSF 372 (Low Lead Content)
 ANSI A117.1 (ADA)
 UL 1951

Drawn: DMH | Checked: GEF | Approved: JHB | Date: 05/26/16 | Scale: 1:6 | Sheet: 1 of 2



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

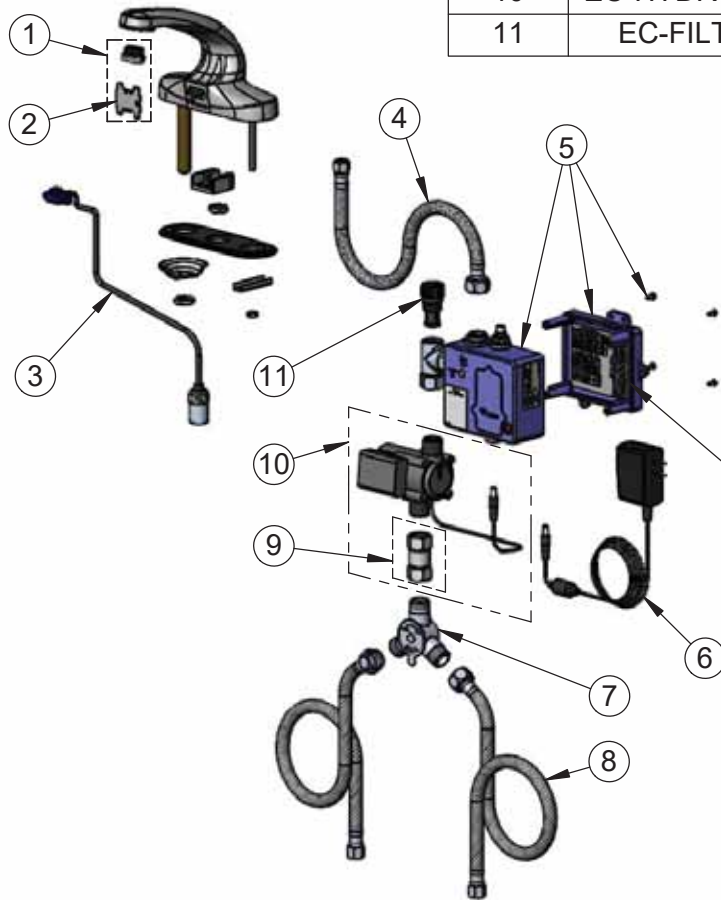
Model No.

EC-3104-HG

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

ITEM NO.	SALES NO.	DESCRIPTION
1	B-0199-08	VR 2.2 GPM Aerator, 13/16-27 UN Male w/ Key
2	015425-45	Vandal Resistant Key
3	017195-45	Angled Sensor w/ Cable
4	016297-45	Inlet Hose, Faucet, 1/2" NPSM-F x 1/4" NPSM-F
5	016647-45	ChekPoint Module (Blue)
6	5EF-0002	Plug-in AC Transformer
7	5EF-0006	Mechanical Mixing Valve
8	5EF-0005	Supply Hose, 9/16-24 Female x 1/2" NPSM
9	017506-45	1/2" NPSM Swivel Coupling
10	EC-HYDROGEN	HydroGenerator Power Supply
11	EC-FILTER	Replacement Filter



Label for Flow Control Switch Settings is Located on Inside of Back Cover.

Flow Control Switches are Located Inside Module Housing in Black Box Next to Battery Compartment.

*Switches are Set to DEFAULT Position:

- Auto Time Out = 15 Seconds
- Shut Off Delay = 1 Second
- Auto Flush = OFF

Remove (4) Screws and Back Cover to Access Switches.

***Available Water Flow Control Selections:**

- Auto Time Out: 15 sec, 30 sec, 45 sec, 60 sec, 3 min, 20 min
- Shut Off Delay: 1 sec, 10 sec, 15 sec, 30 sec
- Auto Flush (30 Seconds After Every 12 Inactive Hours): ON or OFF

Product Specifications:

Chrome Plated Brass Electronic Faucet: 4" c/c Deck Mount Cast Spout w/ VR Aerator, AC/DC Control Module w/ Internal Flow Control Setting Switches, Temperature Control Mixing Valve w/ Integral Check Valves, Hydro-Generator & 18" Long Hot & Cold Supply Stop Flexible Connector Hoses

Product Compliance:

ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)
ANSI A117.1 (ADA)
UL 1951



Jefferson Middle School

11/29/2023

ITEM# 55.2 - SOAP & TOWEL DISPENSERS (1 EA REQ'D)

Bobrick B-822

(or District Approved equal)

Counter-Mounted Soap Dispenser. Vandal-resistant locking cover and free-turning spout. Body and shank are high-impact-resistant ABS plastic with a shatter-resistant polyethylene container., 34-fl. oz. (1.0-L) capacity, 4" (100mm) spout length, 4" (100mm) mounting thickness, bright-polished spout.

ACCESSORIES

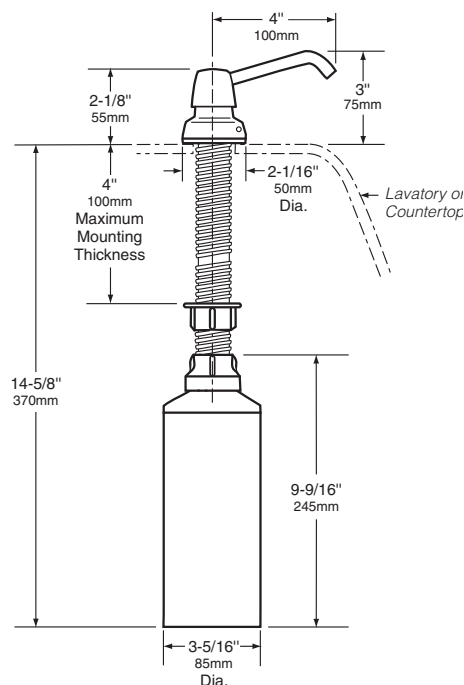
Mfr	Qty	Model	Spec
Bobrick	1	B-2621	Surface-Mounted Paper Towel Dispenser. Satin-finish stainless steel. Dispenses 200 C-fold or 275 multifold towels. Door has knob-latch. Hemmed towel tray opening. Unit 10 3/4" W, 7 1/8" H, 4" D (275 x 180 x 100mm).



Technical Data

LAVATORY-MOUNTED SOAP DISPENSER

B-822



MATERIALS:

Piston, Spout, and Top Cover — Type-304 stainless steel with bright polished finish.

Cover Spacer — Rigid, impact-resistant polyester.

Escutcheon — Chrome-plated, high-impact-resistant ABS with bright polished finish. Concealed locking mechanism.

Body and Shank — High-impact-resistant plastic.

Valve — ABS cylinder. Stainless steel spring. U-packing seal and duckbills.

Container — Translucent, shatter-resistant polyethylene. Capacity: 34-fl oz (1.0-L).

OPERATION:

Press piston down to dispense commercially marketed all purpose hand soaps. Vandal-resistant spout can rotate 360° without damage to unit. Escutcheon locks to body with concealed locking mechanism that is opened with special key provided. To fill from top, unlock cover and remove piston, spout, and supply-tube assembly. Unit may also be filled by removing container from below lavatory.

Designer's Note: Bobrick liquid soap dispensers are designed to dispense commercially marketed all purpose hand soaps including liquid and lotion soaps, synthetic detergents, and antibacterial soaps containing PCMX and/or Triclosan.

INSTALLATION:

Unit is designed for installation in 1" (25mm) diameter hole in porcelain-enameled steel, cast-iron or vitreous-china lavatories, as well as in countertops adjacent to lavatories. Unit may be mounted in unused faucet hole or through special hole requisitioned when lavatory is ordered from manufacturer (specify punching location). Shank accommodates maximum 4" (100mm) mounting thickness and can be cut in the field. Clearance required for container diameter is 3-3/8" (85mm).

SPECIFICATION:

Lavatory-mounted soap dispenser shall dispense commercially marketed all-purpose hand soaps. Piston and spout assembly shall be type-304 stainless steel with bright polished finish. Spout shall rotate 360° without damage to valve mechanism. Escutcheon shall lock to body with concealed locking mechanism that is opened with special key provided. Piston, spout, and supply-tube assembly shall be removable from top for filling and maintenance. Valve shall be equipped with plastic cylinder, stainless steel spring, U-packing seal, and duckbills. Shank shall accommodate mounting thicknesses up to 4" (100mm). Translucent, shatter-resistant polyethylene container shall have a capacity of 34-fl oz (1.0-L).

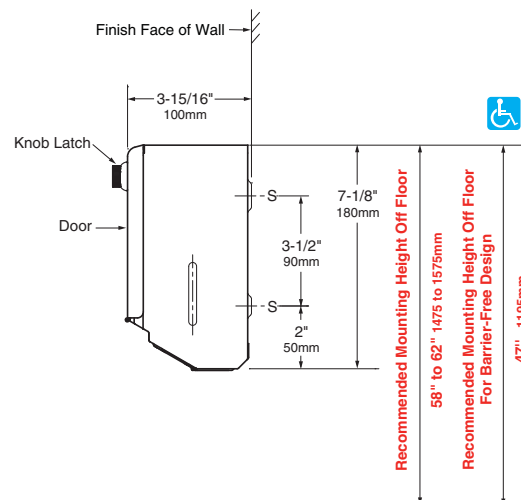
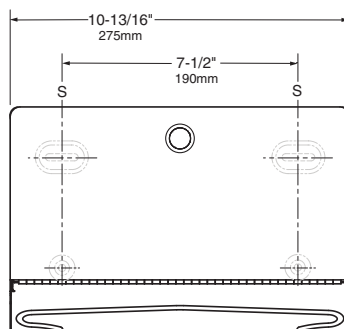
Lavatory-Mounted Soap Dispenser shall be Model B-822 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.



Technical Data

SURFACE-MOUNTED PAPER TOWEL DISPENSER

B-2621



MATERIALS:

Cabinet — 18-8 S, type-304, 22-gauge (0.8mm) stainless steel. All-welded construction. Exposed surfaces have satin finish. Towel tray has hemmed opening to dispense paper towels without tearing.

Door — 18-8 S, type-304, 22-gauge (0.8mm) stainless steel with satin finish. Secured to cabinet with a full-length stainless steel piano-hinge. Equipped with a knob latch.

Optional: Order Bobrick Part No. 262-130 TowelMate™ available as an optional accessory. TowelMate accessory allows for paper towels to dispense one at a time without bulging, sagging or falling through the towel tray opening. TowelMate fits Gamco and most manufacturers' similar models.

OPERATION:

Unit dispenses C-fold and multifold paper towels 3-1/8" to 3-13/16" (79–97mm) deep. Slots in sides of cabinet indicate refill time. Capacity: 200 C-fold or 275 multifold paper towels. To dispense narrower towels 2-1/2" to 3-1/8" (64–79mm) deep, order optional TowelMate accessory Bobrick Part No. 262-130.

INSTALLATION:

Mount unit on wall with four #10 x 1-1/4" (4.8 x 32mm) sheet-metal screws (not furnished) at points indicated by an S. For plaster or dry wall construction, provide concealed backing to comply with local building codes, then secure unit with sheet-metal screws. For other wall surfaces, provide fiber plugs or expansion shields for use with sheet-metal screws, or provide 1/8" (3mm) toggle bolts or expansion bolts.

SPECIFICATION:

Surface-mounted paper towel dispenser shall be type-304 stainless steel with all-welded construction; exposed surfaces shall have satin finish. Door shall be secured to cabinet with a full-length stainless steel piano-hinge and equipped with a knob latch. Paper towel tray shall have hemmed opening to dispense paper towels without tearing. Unit shall be capable of dispensing 200 C-fold or 275 multifold paper towel measuring 3-1/8" to 3-13/16" (79 to 97mm) deep. Narrower paper towels 2-1/2" to 3-1/8" (65 to 79mm) deep may be efficiently dispensed with the use of an optional TowelMate accessory, Bobrick Part No. 262-130. TowelMate accessory allows for paper towels to dispense one at a time without bulging, sagging or falling through the towel tray opening.

Surface-Mounted Paper Towel Dispenser shall be Model B-2621 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.



Jefferson Middle School

11/29/2023

ITEM# 56 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 57 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 58 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 59 - PREP TABLE W/ INTEGRAL DOUBLE PREP SINKS (1 EA REQ'D)

CUSTOM SS

Custom fabricated stainless steel prep table. To include: 6" stainless steel backsplash along all wall edges and stainless steel fixed under-shelf welded to 1-5/8" stainless steel tubular legs with fully welded cross bracing and adjustable bullet feet. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.

ACCESSORIES

Mfr	Qty	Model	Spec
CUSTOM SS	2		Integral 18" x 20" x minimum 12" deep prep sink basins w/ lever waste support brackets.
CUSTOM SS	2		Furnish with (1) lever waste valve (T&S Brass #B-3952, or equivalent) with handle support brackets welded to bottom of sink, per basin.
T&S Brass	2	B-3952	(or District Approved equal) Waste Valve, twist handle, 3-1/2" sink opening, 2" drain outlet



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

B-3952

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

This Space for Architect/Engineer Approval

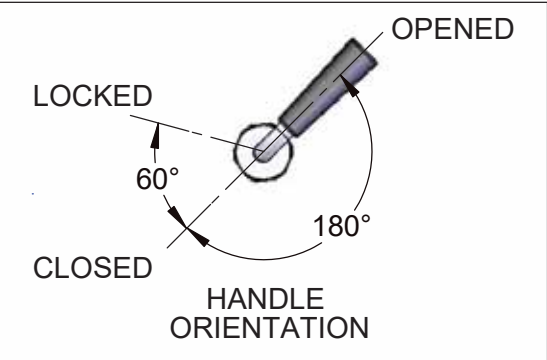
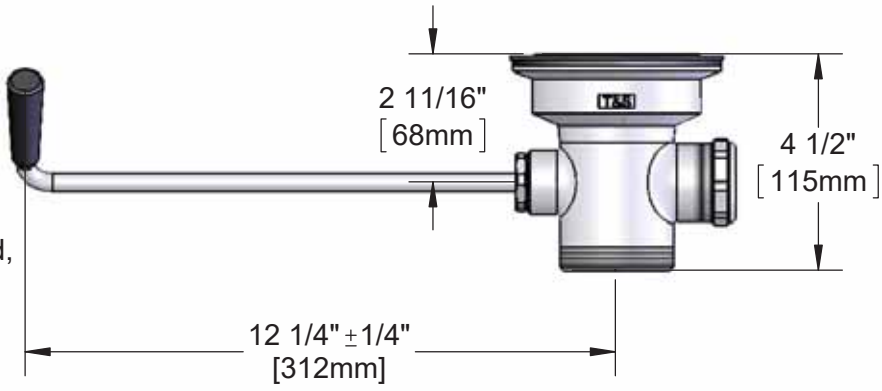
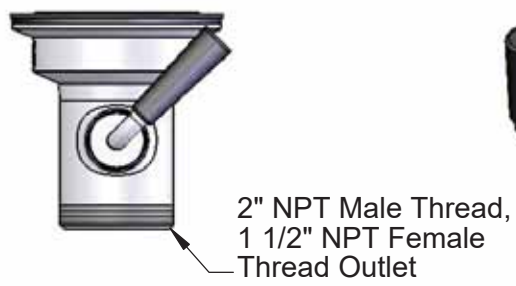
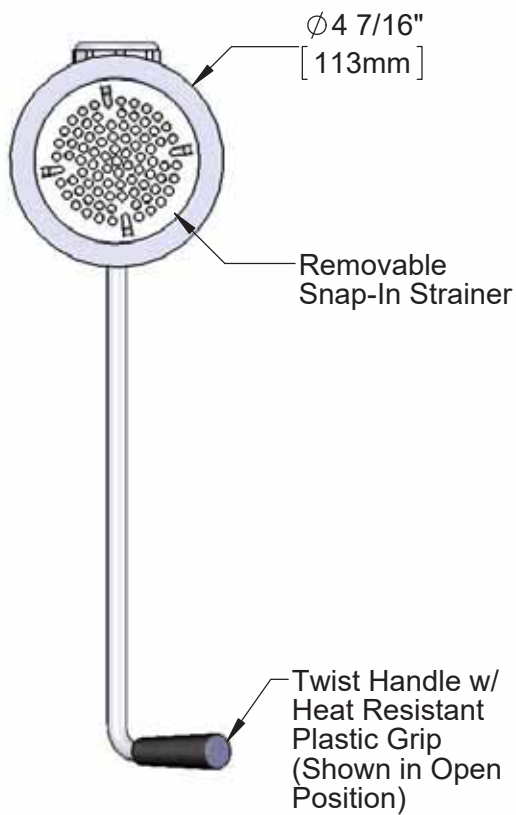
Job Name _____ Date _____

Model Specified _____ Quantity _____

Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____



Product Specifications:
Rotary Waste Valve w/ Twist Handle, 3 1/2" Sink Opening, 2" NPT Male Thread & 1 1/2" Female Thread Outlet

Product Compliance:
ASME A112.18.2 / CSA B125.2



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

B-3952

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

ITEM NO.	SALES NO.	DESCRIPTION
1	010389-45	O-Ring, Plunger
2	010390-45	Ferrule, Coupling Nut
3	010391-45	Nut, Coupling For Twist Drain
4	010382-45	Gasket, 3 1/2" Face Flange
5	010384-45	Flange, 3 1/2" Face
6	010386-45	Strainer, 3 1/2" Snap-in Removable
7	010388-45	Plunger, Lever and Twist Drain
8	010393-45	Rotary Waste Valve Twist Handle



Product Specifications:

Rotary Waste Valve w/ Twist Handle, 3 1/2" Sink Opening, 2" NPT Male Thread & 1 1/2" Female Thread Outlet

Product Compliance:

ASME A112.18.2 / CSA B125.2



Jefferson Middle School

11/29/2023

ITEM# 60 - FAUCET (1 EA REQ'D)

T&S Brass B-0221-CC-CR

(or District Approved equal)

Mixing Faucet, deck mount, 8" centers, 12" swing nozzle, stream regulator outlet, quarter-turn Cerama cartridges with check valves, lever handles, 1/2" NPT "CC" male inlets, low lead, ADA Compliant



T&S BRASS AND BRONZE WORKS, INC.
 2 Saddleback Cove / P.O. Box 1088
 Travelers Rest, SC 29690

Model No.
B-0221-CC-CR

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



ADA Compliant

This Space for Architect/Engineer Approval

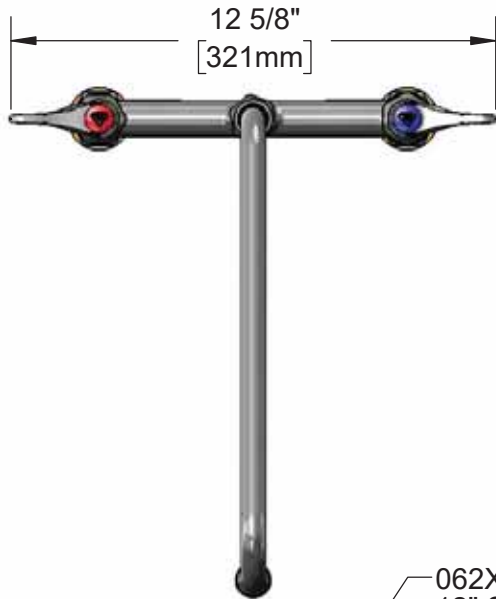
Job Name _____ Date _____

Model Specified _____ Quantity _____

Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____



062X
 12" Swing Nozzle w/
 Stream Regulator Outlet.
 Rigid Conversion Requires
 014200-45 Lock Washer
 (Included)

Swivel Joint

4 11/16"
 [120mm]

8"
 [203mm]

Quarter-Turn
 Cerama Cartridges w/
 Check Valves
 & Lever Handles
 w/ Color Coded
 Indexes

9 9/16"
 [243mm]

6 7/16"
 [163mm]

12"
 [305mm]

Mounting Surface

1 5/16" [33mm]
 Hex Flanges w/
 1/2" NPT
 Male Inlets

Product Specifications:

8" Deck Mount Mixing Faucet, Quarter-Turn Cerama Cartridges w/ Check Valves, Lever Handles, 12" Swing Nozzle & 1/2" NPT Male Inlets

Product Compliance:

ASME A112.18.1 / CSA B125.1
 NSF 61 - Section 9
 NSF 372 (Low Lead Content)
 ANSI A117.1 (ADA)



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

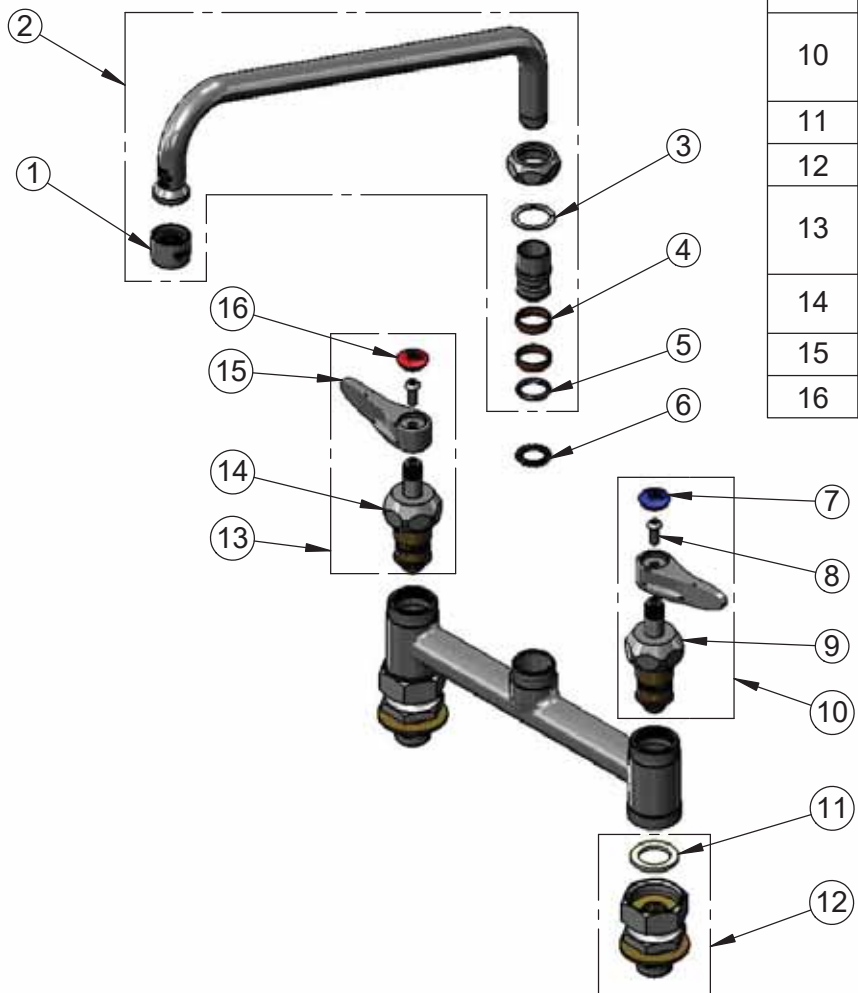
Model No.

B-0221-CC-CR

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

ITEM NO.	SALES NO.	DESCRIPTION
1	B-PT	Stream Regulator Outlet
2	062X	12" Swing Nozzle
3	009538-45	Swivel Washer
4	011429-45	Swivel Sleeves (2)
5	001074-45	O-Ring
6	014200-45	Star Washer, Anti-Rotation
7	018506-19NS	Blue Button Index, Press-in
8	000925-45	Lab Handle Screw
9	012395-25NS	Quarter-Turn Cerama Cartridge w/ Check Valve, LTC
10	012447-25NS	Quarter-Turn Cerama Cartridge w/ Check Valve, Handle, Blue Index & Screw, LTC
11	001019-45	Coupling Nut Washer
12	00CC	1/2" NPT Male Inlet
13	012446-25NS	Quarter-Turn Cerama Cartridge w/ Check Valve, Handle, Red Index & Screw, RTC
14	012394-25NS	Quarter-Turn Cerama Cartridge w/ Check Valve, RTC
15	001638-45NS	Lever Handle (New Style)
16	001193-19NS	Red Button Index, Press-in



Product Specifications:
8" Deck Mount Mixing Faucet, Quarter-Turn Cerama Cartridges w/ Check Valves, Lever Handles, 12" Swing Nozzle & 1/2" NPT Male Inlets

Product Compliance:
ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)
ANSI A117.1 (ADA)



Jefferson Middle School

11/29/2023

ITEM# 61 - DOUBLE OVERSHELF (1 EA REQ'D)

CUSTOM SS

Custom fabricated 16-gauge stainless steel double over-shelf. Reinforce full length with stainless steel channels. Swedge countertop and fully weld and polish connections, as required. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.



Jefferson Middle School

11/29/2023

ITEM# 62 - PREP TABLE W/ INTEGRAL DOUBLE PREP SINKS (1 EA REQ'D)

CUSTOM SS

Custom fabricated stainless steel prep table. To include: 6" stainless steel backsplash along all wall edges and stainless steel fixed under-shelf welded to 1-5/8" stainless steel tubular legs with fully welded cross bracing and adjustable bullet feet. Fabricate per floor plan and detail sheets. Provide shop drawings for approval.

ACCESSORIES

Mfr	Qty	Model	Spec
CUSTOM SS	2		Integral 18" x 20" x minimum 12" deep prep sink basins w/ lever waste support brackets.
CUSTOM SS	2		Furnish with (1) lever waste valve (T&S Brass #B-3952, or equivalent) with handle support brackets welded to bottom of sink, per basin.
T&S Brass	2	B-3952	(or District Approved equal) Waste Valve, twist handle, 3-1/2" sink opening, 2" drain outlet



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

B-3952

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

This Space for Architect/Engineer Approval

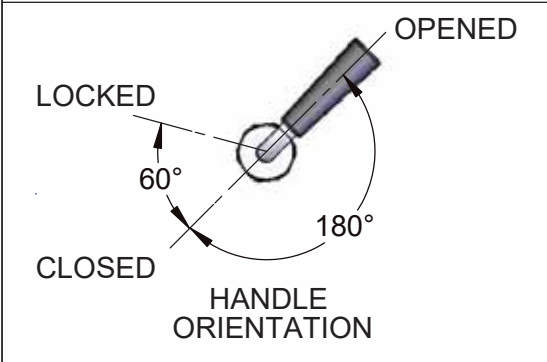
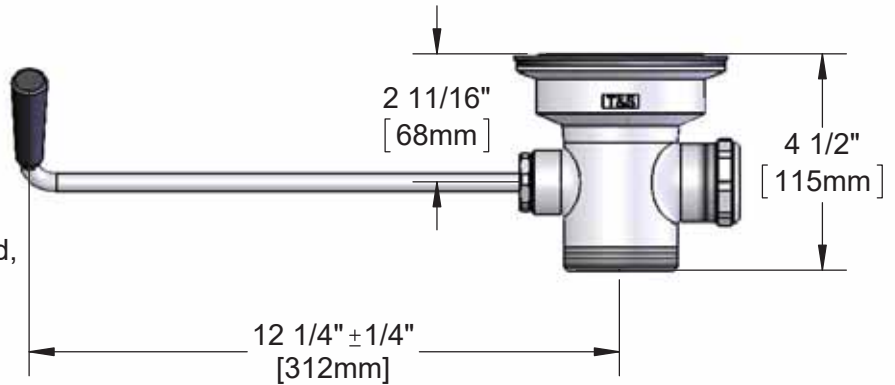
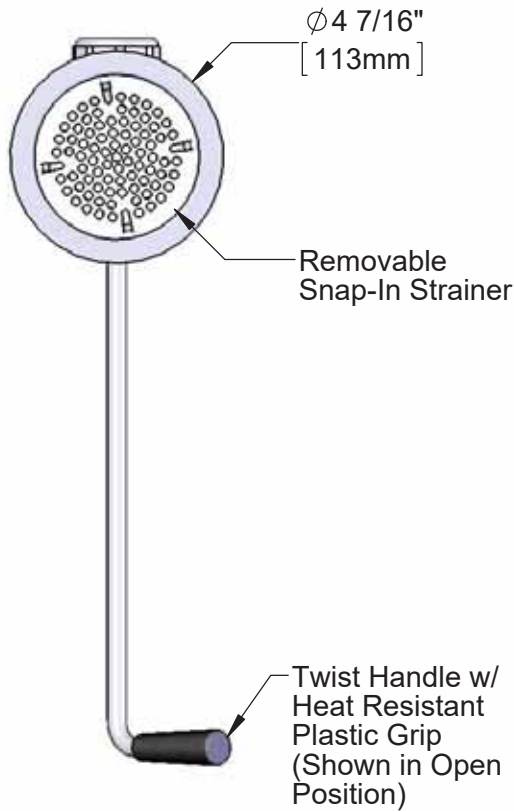
Job Name _____ Date _____

Model Specified _____ Quantity _____

Customer/Wholesaler _____

Contractor _____

Architect/Engineer _____



Product Specifications:
Rotary Waste Valve w/ Twist Handle, 3 1/2" Sink Opening, 2" NPT Male Thread & 1 1/2" Female Thread Outlet

Product Compliance:
ASME A112.18.2 / CSA B125.2



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

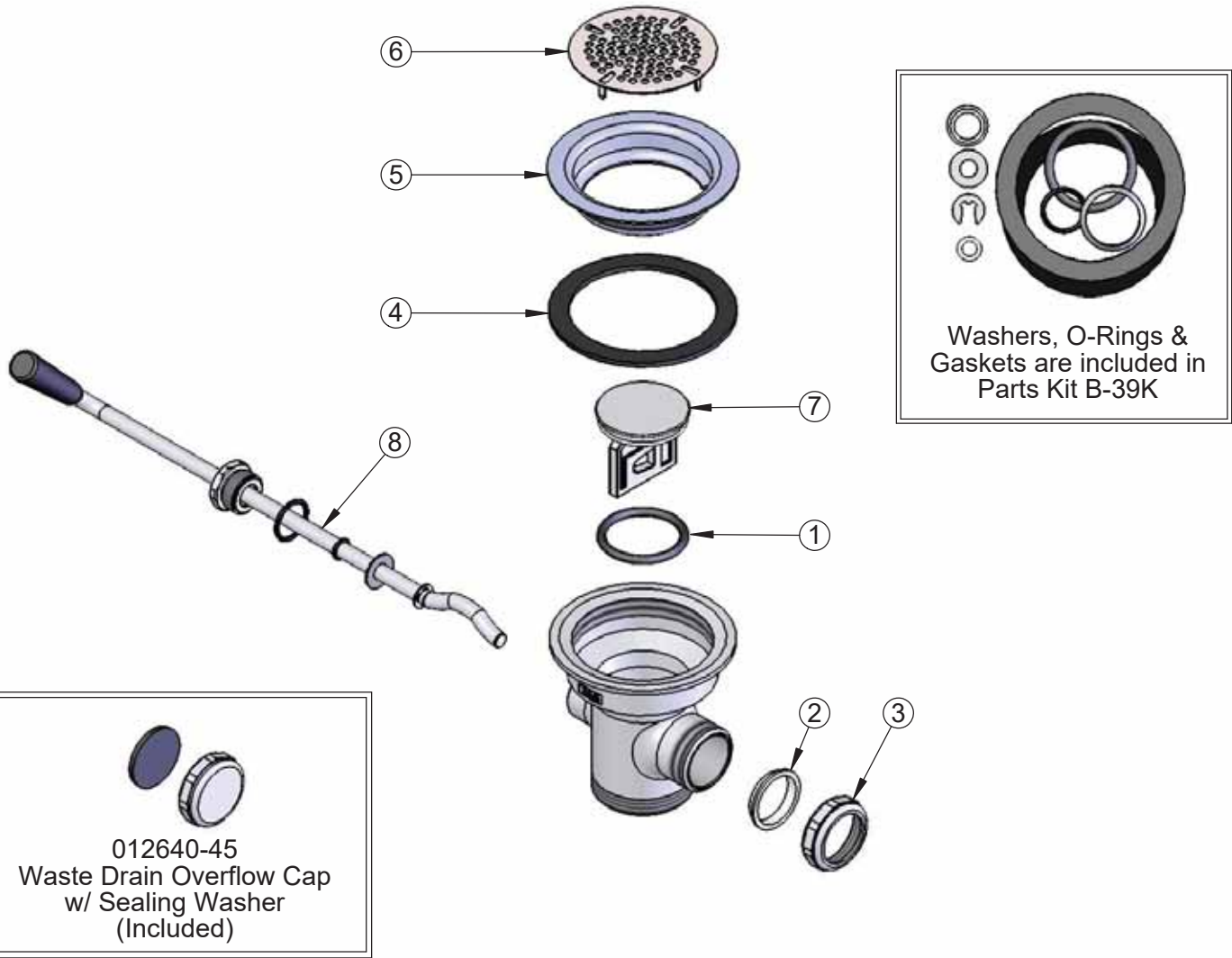
Model No.

B-3952

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

ITEM NO.	SALES NO.	DESCRIPTION
1	010389-45	O-Ring, Plunger
2	010390-45	Ferrule, Coupling Nut
3	010391-45	Nut, Coupling For Twist Drain
4	010382-45	Gasket, 3 1/2" Face Flange
5	010384-45	Flange, 3 1/2" Face
6	010386-45	Strainer, 3 1/2" Snap-in Removable
7	010388-45	Plunger, Lever and Twist Drain
8	010393-45	Rotary Waste Valve Twist Handle



Product Specifications:
Rotary Waste Valve w/ Twist Handle, 3 1/2" Sink Opening, 2" NPT Male Thread & 1 1/2" Female Thread Outlet

Product Compliance:
ASME A112.18.2 / CSA B125.2



Jefferson Middle School

11/29/2023

ITEM# 63 - FAUCET (1 EA REQ'D)

T&S Brass B-0221-CC-CR

(or District Approved equal)

Mixing Faucet, deck mount, 8" centers, 12" swing nozzle, stream regulator outlet, quarter-turn Cerama cartridges with check valves, lever handles, 1/2" NPT "CC" male inlets, low lead, ADA Compliant



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Model No.

B-0221-CC-CR

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com



ADA Compliant

This Space for Architect/Engineer Approval

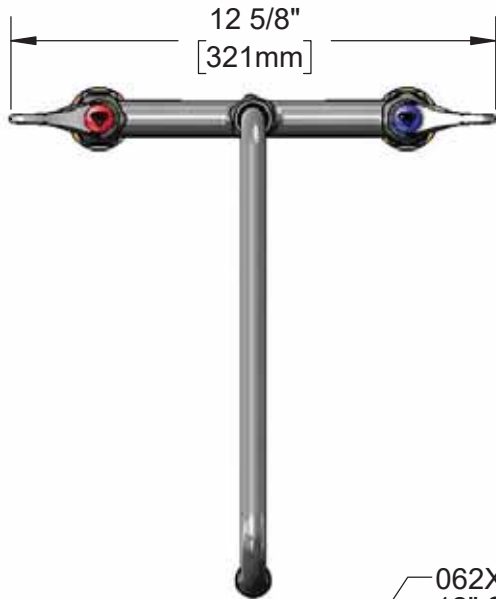
Job Name _____ Date _____

Model Specified _____ Quantity _____

Customer/Wholesaler _____

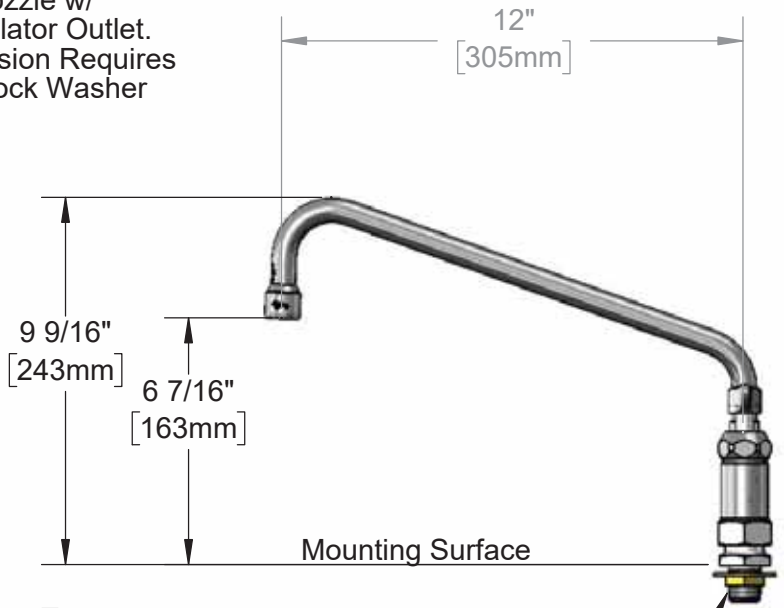
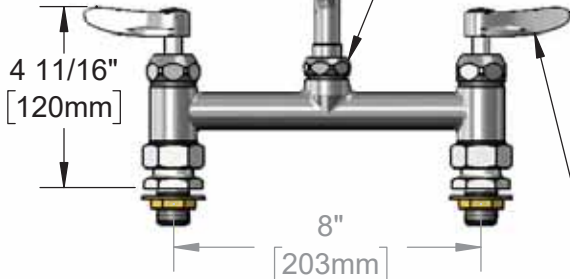
Contractor _____

Architect/Engineer _____



062X
12" Swing Nozzle w/
Stream Regulator Outlet.
Rigid Conversion Requires
014200-45 Lock Washer
(Included)

Swivel Joint



Quarter-Turn
Cerama Cartridges w/
Check Valves
& Lever Handles
w/ Color Coded
Indexes

1 5/16" [33mm]
Hex Flanges w/
1/2" NPT
Male Inlets

Product Specifications:

8" Deck Mount Mixing Faucet, Quarter-Turn Cerama Cartridges w/ Check Valves, Lever Handles, 12" Swing Nozzle & 1/2" NPT Male Inlets

Product Compliance:

ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)
ANSI A117.1 (ADA)



T&S BRASS AND BRONZE WORKS, INC.

2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

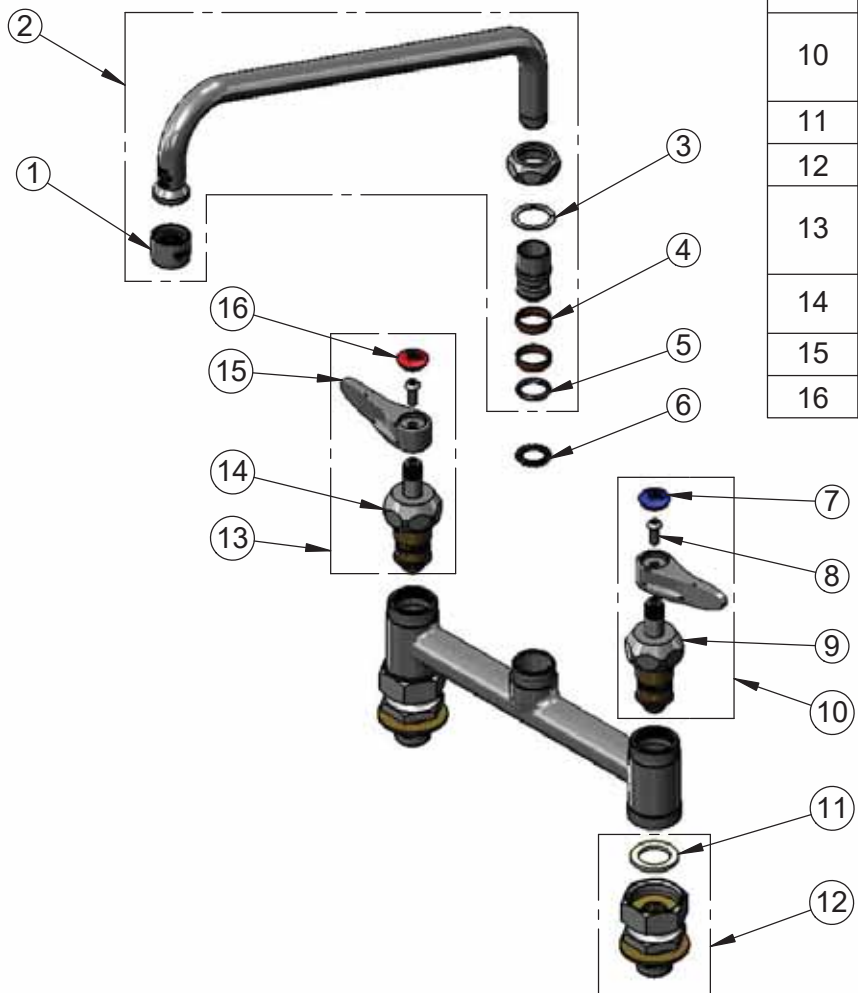
Model No.

B-0221-CC-CR

Item No.

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

ITEM NO.	SALES NO.	DESCRIPTION
1	B-PT	Stream Regulator Outlet
2	062X	12" Swing Nozzle
3	009538-45	Swivel Washer
4	011429-45	Swivel Sleeves (2)
5	001074-45	O-Ring
6	014200-45	Star Washer, Anti-Rotation
7	018506-19NS	Blue Button Index, Press-in
8	000925-45	Lab Handle Screw
9	012395-25NS	Quarter-Turn Cerama Cartridge w/ Check Valve, LTC
10	012447-25NS	Quarter-Turn Cerama Cartridge w/ Check Valve, Handle, Blue Index & Screw, LTC
11	001019-45	Coupling Nut Washer
12	00CC	1/2" NPT Male Inlet
13	012446-25NS	Quarter-Turn Cerama Cartridge w/ Check Valve, Handle, Red Index & Screw, RTC
14	012394-25NS	Quarter-Turn Cerama Cartridge w/ Check Valve, RTC
15	001638-45NS	Lever Handle (New Style)
16	001193-19NS	Red Button Index, Press-in



Product Specifications:
8" Deck Mount Mixing Faucet, Quarter-Turn Cerama Cartridges w/ Check Valves, Lever Handles, 12" Swing Nozzle & 1/2" NPT Male Inlets

Product Compliance:
ASME A112.18.1 / CSA B125.1
NSF 61 - Section 9
NSF 372 (Low Lead Content)
ANSI A117.1 (ADA)



Jefferson Middle School

11/29/2023

ITEM# 64 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 65 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 66 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 67 - WALK-IN FREEZER W/ LIGHT (1 REQ'D)

ThermalRite

Walk-in cooler/freezer with light, U.L. pre-fabricated insulated wall panels with NSF approved finish.

ACCESSORIES

Mfr	Qty	Model	Spec
ThermalRite	1		PANEL CONSTRUCTION: Polyurethane foam insulation packed to a 2.3-lb. density with a high-density urethane perimeter. Interior cam locks to all wall, ceiling, and floor panels. Interior and exterior joints sealed by NSF approved gasket. PANEL THICKNESS: Cooler = 4" thick walls, 5" thick ceiling; Freezer = 5" thick walls and ceiling panels
ThermalRite	1		PANEL FINISHES: Interior Ceiling = Stucco Embossed Aluminum, .040; Interior Wall = Stucco Embossed aluminum, .040; Exposed Exterior = Stainless Steel, Type-304, 20-gauge, #4 Finish; Unexposed Exterior = Stucco Embossed Galvanized Steel, 26-gauge; Flooring (insulated slab)= provide with mass insulation, breaker strip, and Visqueen vapor barrier; concrete and wearing surface by others.
ThermalRite	1		PANEL ACCESSORIES: LED light fixtures. Matching vertical trim. Matching cove base. Matching closure panel.
ThermalRite	1		DOOR FEATURES: Flush fitting, self-closing door with replaceable magnetic gasket and adjustable dual wiper blades. Hinges and locking handle with inside safety release. Hydraulic door closure, pre-wired exterior light switch, and one thermometer per compartment. Heated door opening and heated pressure relief vent for freezer only. Door quantity as shown on floor plan.
ThermalRite	1		DOOR ACCESSORIES: Aluminum tread plate kick plates interior and exterior. Heated Vision Panel(s). Plastic vinyl strip curtain.
ThermalRite	1		ALARM/CONTROLS: Provide with Modularm #75LC temp alarm/light control and Modularm #IP-1 panic alarm/light control.
ThermalRite	1		Anchoring Provisions
ThermalRite	1		Structural Engineering & Stamped Drawings
ThermalRite	1		Parts & Labor Warranty on Box and Accessories



Jefferson Middle School

11/29/2023

ITEM# 68 - EVAPORATOR COIL, WALK-IN FREEZER (1 EA REQ'D)

CUSTOMRF

Evaporator coil, serving Walk-In Freezer (Item #67). Pre-built air defrost evaporator with all necessary controls. Freezer Evaporator Coils To Include: built-in electric defrost, powered from remote condenser.

ACCESSORIES

<u>Mfr</u>	<u>Qty</u>	<u>Model</u>	<u>Spec</u>
KE2 Therm	1	20178	Provide with KE2 Evaporator Efficiency demand defrost system, (1) required per evaporator.



Jefferson Middle School

11/29/2023

ITEM# 69 - WALK-IN COOLER W/ LIGHTS (1 EA REQ'D)

ThermalRite

Included with Walk-In Freezer (Item #67). See Item #67 and drawings for more information.



Jefferson Middle School

11/29/2023

ITEM# 70 - EVAPORATOR COIL, WALK-IN COOLER (1 REQ'D)

CUSTOMRF

Evaporator coil, serving Walk-In Cooler (Item #69). Pre-built air defrost evaporator with all necessary controls. Cooler Evaporator Coils To include: Grasslin FM1-STuZ (or equivalent) timer module with interval captive trippers and Quartz drive with 3-way switch.

ACCESSORIES

Mfr	Qty	Model	Spec
KE2 Therm	1	20178	Provide with KE2 Evaporator Efficiency demand defrost system, (1) required per evaporator.



Jefferson Middle School

11/29/2023

ITEM# 71 - REMOTE CONDENSER, WALK-IN FREEZER (1 REQ'D)

CUSTOMRF

Remote condenser, serving Walk-In Freezer (Item #67). Pre-built system to operate with refrigerant that meets or exceeds current Department of Energy Standards (such as: R-290, R-407A, R-407C, or R-448A) with all necessary controls. Outdoor, hermetic, air-cooled, coated condenser with stainless steel enclosure. Matching air defrost evaporator. Size condensers and evaporators for -10 degrees Fahrenheit holding temperature in freezer. Allow for operation in 100 degree ambient conditions with an 80% duty cycle.



Jefferson Middle School

11/29/2023

ITEM# 72 - DRY STORAGE SHELVING (1 LT REQ'D)

Cambro

(or District Approved equal)

Twenty-Three (23) units of 4-tier mobile shelving units, plastic type. Verify size and quantity with field conditions.

ACCESSORIES

Mfr	Qty	Model	Spec
Cambro	1	EXMU243670V4480	Camshelving® Elements XTRA Mobile Unit, 24"W x 36"L x 70-1/4"H, 4-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented reinforced polypropylene shelf plates with Camguard® antimicrobial protection, (4) composite posts, pre-assembled post connectors & wedges, (8) Universal Traverses & (4) bags of 4 dovetails (8 left, 8 right), (4) premium swivel casters with total locking brake, speckled gray, NSF
Cambro	12	EXMU244270V4480	Camshelving® Elements XTRA Mobile Unit, 24"W x 42"L x 70-1/4"H, 4-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented reinforced polypropylene shelf plates with Camguard® antimicrobial protection, (4) composite posts, pre-assembled post connectors & wedges, (8) Universal Traverses & (4) bags of 4 dovetails (8 left, 8 right), (4) premium swivel casters with total locking brake, 750 lbs. max capacity, speckled gray, NSF
Cambro	10	EXMU244870V4480	Camshelving® Elements XTRA Mobile Unit, 24"W x 48"L x 70-1/4"H, 4-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented reinforced polypropylene shelf plates with Camguard® antimicrobial protection, (4) composite posts, pre-assembled post connectors & wedges, (8) Universal Traverses & (4) bags of 4 dovetails (8 left, 8 right), (4) premium swivel casters with total locking brake, 750 lbs. max capacity, speckled gray, NSF



Jefferson Middle School

11/29/2023

ITEM# 73 - ANTHONY REACH-IN DOORS (2 EA REQ'D)

ThermalRite

Anthony reach-in doors with lights. Included with Walk-In Cooler (Item #69). See item #69 and drawings for more information.



Jefferson Middle School

11/29/2023

ITEM# 74 - REMOTE CONDENSER, WALK-IN COOLER (1 REQ'D)

CUSTOMRF

Remote condenser, serving Walk-In Cooler (Item #69). Pre-built system to operate with refrigerant that meets or exceeds current Department of Energy Standards (such as: R-290, R-407A, R-407C, or R-448A) with all necessary controls. Outdoor, hermetic, air-cooled, coated condenser with stainless steel enclosure. Matching air defrost evaporator. Size condensers and evaporators for 35 degrees Fahrenheit holding temperature in cooler. Allow for operation in 100 degree ambient conditions with an 80% duty cycle.



Jefferson Middle School

11/29/2023

ITEM# 75 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 76 - SPARE NO.

<Spare No.>



Jefferson Middle School

11/29/2023

ITEM# 77 - HOT FOOD SERVING COUNTER / TABLE (4 EA REQ'D)

Vollrath 37057

(or District Approved equal)

4-Series Signature Server® Bain Marie Hot Food Station, 60"W x 28"D x 34"H, 4-Pan size, modular, wet or dry operation, single dial thermostat control, 625 watt heating element, 18/300 series stainless steel one-piece top, 18/400 series stainless steel enclosed base, drain hose on operator side, 4" swivel casters with brakes, includes cord & plug, cULus, Made in USA

ACCESSORIES

Mfr	Qty	Model	Spec
Vollrath	4		208v/60/1-ph
Vollrath	4	36693	All Stainless finish for 4-Series Signature Server® with stainless steel countertops Corner Station & 46"W models
Vollrath	4	N36302	NSF2 (2011) Classic Economy Buffet Breath Guard, for 60"W 4-Series Signature Server®, stainless steel uprights, clear acrylic with clear acrylic end panels
Vollrath	4	9879204	Upgrade to 14 gauge stainless steel work surface for, (4) well 60"W 4-Series Signature Server® Hot Food Base
Vollrath	4	NO LIGHT OR HEAT	No lights or heating, standard
Vollrath	4	375231450-2-O	4-Series Signature Server® V-rib Tray Slide, for operator side, 60"W x 12"D, fold-down/lift-off brackets, 14/300 series stainless steel
Vollrath	4	375231450-2-C	4-Series Signature Server® V-rib Tray Slide, for customer side, 60"W x 12"D, fold-down/lift-off brackets, 14/300 series stainless steel
Vollrath	4		Note: must add an "M" to model number when ordering any special fabrication option
Vollrath	4	98850	Work surface flange modified with line-up locks, Keyhole slots on diagonal corners with stainless slide attached to side of base
Vollrath	4	SS4CASTERS	4-Series Signature Server® Swivel Casters, 4"H, (2) braked, standard



Outperform every day.™

Project:

Item Number:

Quantity:

Signature Server® Bain Marie Hot Food Stations with Stainless Steel Counters



ITEMS

Item No.	Length	Height
37047		34" (86 cm)
36447	46" (117 cm)	30" (76 cm)
36347		27" (69 cm)
37057		34" (86 cm)
36457	60" (152 cm)	30" (76 cm)
36357		27" (69 cm)
37067		34" (86 cm)
36468	74" (188 cm)	30" (76 cm)
36367		27" (69 cm)
37077		34" (86 cm)
36477	88" (224 cm)	30" (76 cm)
36377		27" (69 cm)

STANDARD FEATURES

- Reinforced stainless steel unibody construction provides extra durability in a lightweight, mobile base
- Base is 18-gauge 300 series stainless steel with applied black laminate
- Top is one-piece 18-gauge 300 series stainless steel
- Well constructed of 18-gauge 300 series stainless steel

Well insulated with minimum a 1½" (3.8 cm) high-density glass fiber insulation for efficient operation

- Single dial control with thermostat control
- Single drain
- Energy efficient 625W elements
- Drain hose on operator side of base
- Heavy-duty 4" (10 cm) swivel casters with brakes
- 8 ft. (2.4 m) cord
- NSF4 listed

Note: Signature Server® equipment orders cannot be canceled or returned.

WARRANTY

All models shown come with Vollrath's standard warranty against defects in materials and workmanship. For full warranty details, please refer to www.Vollrath.com.

Approvals	Date

Due to continued product improvement, please consult www.vollrath.com for current product specifications.

OPTIONS

BASE COLOR

- Black Laminate (Standard)
- Matte Laminate. Specify manufacturer/color: _____
- Wood Grain. Specify manufacturer/color: _____

Stainless Steel

Vinyl Wrap

- Food Words Food Images
- Bubbles Checkerboard

COUNTERTOP MATERIAL

- 18 Ga Stainless Steel (Standard)
- 14 Ga Stainless Steel
- Textured Stainless Steel

BREATH GUARD STYLE

See Breath Guard Spec Sheet.

For Stainless Steel Countertops Only

- Classic Cafeteria, Single Shelf NSF Stnd
- Classic Cafeteria, Dbl. Shelf NSF Stnd
- Classic Economy Buffet NSF Stnd
- Access® - Adjustable NSF Stnd
- Access® - Non-Adjustable NSF Stnd

Traditional Style

- Double-Sided Buffet NSF Stnd
- Single-Sided Buffet NSF Stnd
- Single-Sided Buffet w/ Shelf NSF Stnd
- Cafeteria with Top Shelf NSF Stnd
- Vertical Cafeteria NSF Stnd

Progressive Style

- Double-Sided Buffet NSF Stnd
- Single-Sided Buffet w/ Shelf NSF Stnd
- Single-Sided Buffet NSF Stnd
- Cafeteria with Top Shelf NSF Stnd

Contemporary Style

- Double-Sided Buffet NSF Stnd
- Single-Sided Buffet w/ Shelf NSF Stnd
- Single-Sided Buffet NSF Stnd
- Cafeteria with Top Shelf NSF Stnd

BREATH GUARD COLOR

Progressive and Traditional

- Gray Hammer (Progressive Only)
- Aluminum (Traditional Only)
- Chrome Brass Powder Coat

BREATH GUARD COLOR (Cont.)

Progressive and Traditional (Cont.)

- Blk. 80% Gloss Blk. Hammer Semi-Gloss
- Copper Vein White Hammer
- Silver Vein Black/White

Contemporary

- Brushed Stainless Steel Black 80% Gloss
- Brass Powder Coat

LIGHTING

See Breath Guard Spec Sheet.

- Incandescent Heat Strips
- Infrared Heat Strips w/ Lights
- Fluorescent

CUSTOM OPTIONS

Contact Vollrath Representative for all options.

- Toe Kick Electrical Outlet
- Back Splash Custom

EXTENDED WARRANTY

Contact Vollrath Representative for details.

ACCESSORIES

See Signature Server Accessories Spec Sheet.

Plate Rest w/ Mounting Kit (Stainless Steel)

- Customer Side Plain Textured
- Operator Side Plain Textured

Tray Slide, V-rib (Stainless Steel)

- Customer Side 18 Ga 14 Ga
- Operator Side 18 Ga 14 Ga

Tray Slide, Tubular (Stainless Steel)

- Customer Side Operator Side

Cutting Board

- Maple Hardwood White Poly

End Shelf (Stainless Steel)

- Operator Left Operator Right
- Operator Left and Operator Right

Storage Module

- With Doors Without Doors

Bag in Box

- Stainless Steel With Doors
- Galvanized Without Doors

Stationary Legs

- Adjustable 4-5" 4" Fixed 6" Fixed

Line Locks

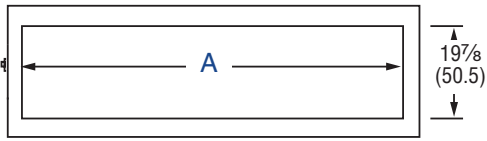
- Line Locks

Signature Server® Bain Marie Hot Food Stations with Stainless Steel Counters

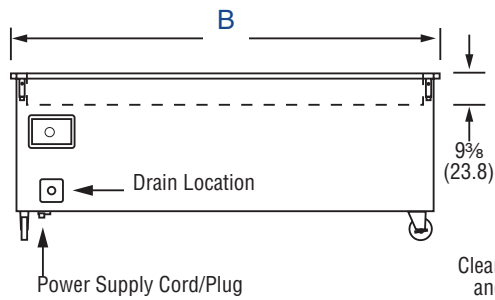
The Vollrath Company, L.L.C.

Signature Server® Bain Marie Hot Food Stations with Stainless Steel Counters

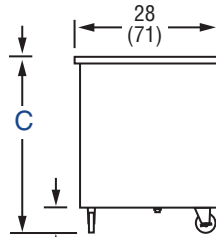
DIMENSIONS (Shown in inches (cm))



Top View



Operator Side View



End View

Clearance between base and floor 5 1/4 (13.3)

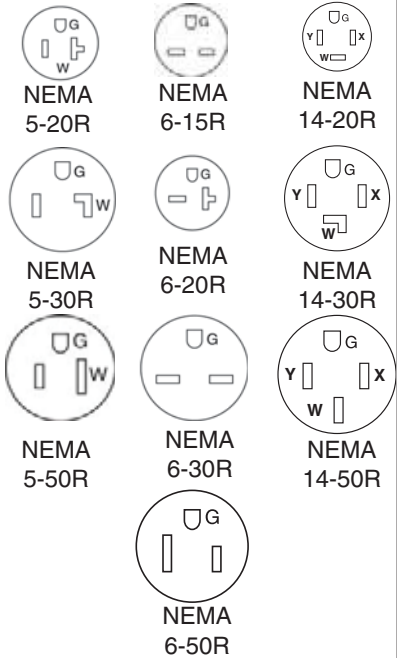
Item No.	(A) Pan Length	(B) Overall Length	(C) Height
37047			34 (86)
36447	37 1/2 (95.3)	46 (117)	30 (76)
36347			27 (69)
37057			34 (86)
36457	50 (127)	60 (152)	30 (76)
36357			27 (69)
37067			34 (86)
36468	63 (160)	74 (188)	30 (76)
36367			27 (69)
37077			34 (86)
36477	75 3/4 (192.4)	88 (224)	30 (76)
36377			27 (69)

For breath guard and accessory dimensions, see the breath guard and accessory spec sheets on vollrath.com

ELECTRICAL SPECIFICATIONS

Base Unit Voltage	Lighting/Heating Choice	Number of Wells							
		3 Well		4 Well		5 Well		6 Well	
		Total Amps	NEMA Plug	Total Amps	NEMA Plug	Total Amps	NEMA Plug	Total Amps	NEMA Plug
120	Heat Strip	20.8	5-30P	30.1	5-50P	Not available.			
	Heat Strip w/ Lights	22.3		31.6					
	Fluorescent	15.9		21.5	5-30P				
	Incandescent	17.2		22.9	5-50P				
	Infrared	21.9		29.2	5-50P				
	None	15.7		20.9	5-30P				
208	Heat Strip	14.3	6-20P	19	6-30P	24.6	6-50P	28.5	6-50P
	None	9.1	6-15P	12.1	6-15P	15.1	6-20P	18.1	6-30P
240	Heat Strip	11.3	6-15P	15.1	6-20P	19.4	6-30P	22.6	6-30P
	None	7.9		10.5	6-15P	13.1	6-20P	15.7	6-20P
120/208	Heat Strip w/ Lights	15.8	14-20P	21	14-30P	27.1	14-50P	31.5	14-50P
	Fluorescent	9.3		12.7	14-20P	15.7	14-20P	18.6	14-30P
	Incandescent	10.6		14.1	14-30P	17.6	14-50P	21.1	14-50P
	Infrared	15.3		20.4		25.5		30.6	
120/240	Heat Strip w/ Lights	12.8	14-20P	17.1	14-30P	21.9	14-30P	25.6	14-50P
	Fluorescent	8.1		11.1	14-20P	13.7	14-20P	16.2	14-30P
	Incandescent	9.4		12.5	14-30P	15.6	14-30P	18.7	14-50P
	Infrared	14.1		18.8		23.5		28.2	

Receptacles



Outperform every day.™

www.vollrath.com

The Vollrath Company, L.L.C.
 1236 North 18th Street
 Sheboygan, WI 53081-3201 U.S.A.
 Main Tel: 800.624.2051 or 920.457.4851
 Main Fax: 800.752.5620 or 920.459.6573
 Customer Service: 800.628.0830

Technical Services
techservices@vollrathco.com
 Induction Products: 800.825.6036
 Countertop Warming Products:
 800.354.1970
 All Other Products: 800.628.0832

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Form Number L35713 11/1/16
 Printed in USA

Rectangular Bases with Integrated Equipment (stainless tops only)



Hot Food Bases with Touch-Temp® Panel



Bain Marie Hot Station



NSF7 Cold Stations



Cold Food Stations



Hot/Cold Food Stations



Beverage Counters



Frost Top Stations



Utility Stations



Milk Stations



Tray and Flatware Cart



Universal Corner Station



Entrée Cart



Cashier Station

ITEM	DESCRIPTION	DIMENSIONS L X W: IN (CM)	NSF LISTED	UL LISTED	ITEM # H:34" (86 CM)	ITEM # H:30" (76 CM)	ITEM # H:27" (69 CM)
Hot food base with touch-temp panel	3-well	46 x 28 (117 x 71)	NSF	UL	37030	36130	36230
Hot food base with touch-temp panel	4-well	60 x 28 (152 x 71)	NSF	UL	37040	36140	36240
Hot food base with touch-temp panel	5-well	74 x 28 (188 x 71)	NSF	UL	37050	36150	36250
Hot food base with touch-temp panel	6-well	88 x 28 (224 x 71)	NSF	UL	98888	—	—
Bain marie hot station	3-well	46 x 28 (117 x 71)	—	UL	37047	36447	36347
Bain marie hot station	4-well	60 x 28 (152 x 71)	—	UL	37057	36457	36357
Bain marie hot station	5-well	74 x 28 (188 x 71)	—	UL	37067	36468	36367
Bain marie hot station	6-well	88 x 28 (224 x 71)	—	UL	37077	3647700	36377
Cold station	NSF7 refrigerated	46 x 28 (117 x 71)	NSF	UL	37046	36146	—
Cold station	NSF7 refrigerated	60 x 28 (152 x 71)	NSF	UL	37066	36166	—
Cold station	NSF7 refrigerated	74 x 28 (188 x 71)	NSF	UL	37076	36176	—
Cold station	NSF7 refrigerated	88 x 28 (224 x 71)	NSF	UL	98710	—	—
Cold station	Refrigerated	46 x 28 (117 x 71)	—	UL	37045	36145	36245
Cold station	Refrigerated	60 x 28 (152 x 71)	—	UL	37065	36165	36265
Cold station	Refrigerated	74 x 28 (188 x 71)	—	UL	37075	36175	36275
Cold station	Refrigerated	88 x 28 (224 x 71)	—	UL	98708	—	—
Cold station	Non-refrigerated	46 x 28 (117 x 71)	NSF	—	37043	36143	36243
Cold station	Non-refrigerated	60 x 28 (152 x 71)	NSF	—	37060	36160	36260
Cold station	Non-refrigerated	74 x 28 (188 x 71)	NSF	—	37070	36170	36270
Cold station	Non-refrigerated	88 x 28 (224 x 71)	NSF	—	98707	—	—
Hot/cold food station	Refrigerated	74 x 28 (188 x 71)	NSF	UL	37095	36195	36295
Hot/cold food station	Non-refrigerated	74 x 28 (188 x 71)	NSF	UL	37091	36191	36291
Utility station	Utility station	28 x 28 (71 x 71)	NSF	UL	37020	36120	36220
Utility station	Utility station	46 x 28 (117 x 71)	NSF	UL	37021	36121	36221
Utility station	Utility station	60 x 28 (152 x 71)	NSF	UL	37022	36122	36222
Utility station	Utility station	74 x 28 (188 x 71)	NSF	UL	37023	36123	36223
Utility station	Utility station	88 x 28 (224 x 71)	NSF	UL	98711	—	—
Beverage counter	Beverage counter	46 x 28 (117 x 71)	NSF	—	37025	36125	—
Beverage counter	Beverage counter	60 x 28 (152 x 71)	NSF	—	37026	36126	—
Beverage counter	Beverage counter	74 x 28 (188 x 71)	NSF	—	37027	36127	—
Universal corner station	Corner station	28 x 28 (71 x 71)	NSF	UL	37085	36185	36285
Entrée cart	Entrée cart	46 x 28 (117 x 71)	NSF	—	37080	—	—
Frost top station	Frost top	46 x 28 (117 x 71)	—	UL	37012	36112	36212
Frost top station	Frost top	60 x 28 (152 x 71)	—	UL	37013	36113	36213
Frost top station	Frost top	74 x 28 (188 x 71)	—	UL	37014	36114	36214
Frost top station	Frost top	88 x 28 (224 x 71)	—	UL	36115	36117	36116
Cashier station	Cashier station	28 x 28 (71 x 71)	NSF	UL	37015	—	—
Tray and flatware cart	Tray and flatware cart	38 x 22½ (96.5 x 57.2)	NSF	—	99305	—	—
Milk station	Milk station	60 x 28 (152 x 71)	NSF	UL	37001	—	—
Milk station	Milk station	74 x 28 (188 x 71)	NSF	UL	37002	—	—



Outperform every day.™

Project:

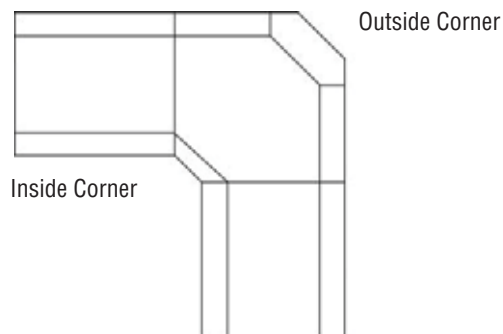
Item Number:

Quantity:

SIGNATURE SERVER® CORNER STATIONS WITH STAINLESS STEEL COUNTERS

FEATURES

- Reinforced stainless steel unibody construction provides extra durability in a lightweight, mobile base
- Base is 18-gauge 400 series stainless steel clad with black laminate. Optional colors and finishes are also available.
- Use as an inside or outside corner



Signature Server® Corner Station with Stainless Steel Counter

DESCRIPTION

Signature Server® is the choice when functionality and modular ease of use are your top priorities. Signature Server® Serving Equipment is an industry standard, with updated features to better serve the operator.

- Top is one-piece 16-gauge 300 series stainless steel
- Optional 14 gauge work surface available
- Heavy-duty 4" (10 cm) swivel casters with brakes

Note: Signature Server® equipment orders cannot be cancelled or returned.

WARRANTY: All models shown come with Vollrath's standard warranty against defects in materials and workmanship. For full warranty details, please refer to www.Vollrath.com.

BASES AND OPTIONS

Base			Options			Breath Guards	Lighting	Accessories
Height / Item No			Color (Black is standard)					
27" (69)	30" (76)	34" (86)	Matte Laminate	Wood Grain	Stainless Steel	Choose from: Progressive, Contemporary, Traditional, Classic Cafeteria, Classic Economy Buffet, Access® and Classic Speed Serve. See Breath Guard spec sheets on vollrath.com for selection information.	Choose from: Incandescent, infrared, fluorescent, heat strips and heat strips with lights. See Breath Guard spec sheets on vollrath.com for selection information.	Choose from: Plate rests, cutting boards, end shelf, tray slides, storage modules, false bottoms, bag in box, stationary legs. See Accessories spec sheet on vollrath.com for selection information.
36285	36185	37085	36680	36687	36693			

Use only Vollrath accessories, including breath guards. Vollrath is not responsible for the fit or installation of custom made accessories and components. Custom accessories and components may void agency listings.

Agency Certification



Due to continued product improvement, please consult www.vollrath.com for current product specifications.

Approvals	Date

Signature Server® Corner Stations with Stainless Steel Counters

The Vollrath Company, L.L.C.



Outperform every day.™

www.vollrath.com

Jefferson Middle School

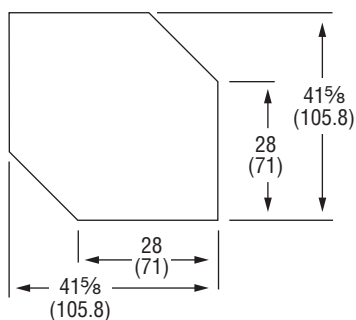
The Vollrath Company, L.L.C.
 1236 North 18th Street
 Sheboygan, WI 53081-3201 U.S.A.
 Customer Service: 800.628.0830
 Canada Customer Service: 800.695.8560
 Main Fax: 800.752.5620 or 920.459.6573

Orness Design Group

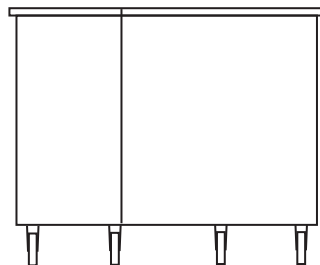
Technical Services: 800.628.0832
 Technical Services Fax: 920.459.5462

SIGNATURE SERVER® CORNER STATIONS WITH STAINLESS STEEL COUNTERS

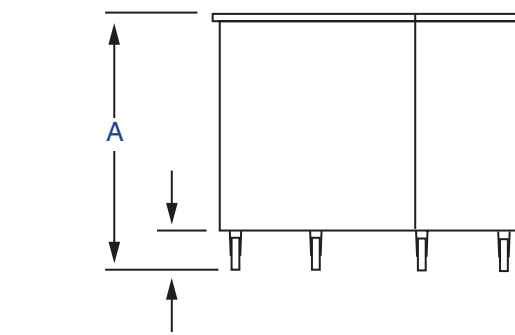
DIMENSIONS (Shown in inches (cm))



Top View



Front View



Clearance between base and floor 5 1/4 (13.3)

End View

Item No.	(A) Height
36285	27 (69)
36185	30 (76)
37085	34 (86)

For breath guard and accessory dimensions, see the breath guard and accessory spec sheets on vollrath.com

NOTE: Standard base with stainless steel countertop has a maximum load capacity of 250 LB (113.4 KG). Contact Vollrath for construction options to support heavier loads.



Outperform every day.™

www.vollrath.com

The Vollrath Company, L.L.C.
 1236 North 18th Street
 Sheboygan, WI 53081-3201 U.S.A.
 Customer Service: 800.628.0830
 Canada Customer Service: 800.695.8560
 Main Fax: 800.752.5620 or 920.459.6573

Technical Services: 800.628.0832
 Technical Services Fax: 920.459.5462

Determining Your COLOR & TEXTURE



Color and Texture Options

- All 4-Series base units come standard with 18-gauge stainless steel countertops and black laminate bases
- Endless optional-color laminates and vinyl veneer chips are available through local building supply vendors
- Formica®, Nevamar®, Pionite®, and Wilsonart® laminate finishes, among others
- Units can be ordered with all stainless steel construction
- Contemporary textured countertop and plate rest available on stainless steel construction

Visit the following websites to select from a wide variety of laminates and textures: formica.com, wilsonart.com, pionite.com, nevamar.com

MATTE LAMINATE ITEM #	WOODGRAIN ITEM #	STAINLESS ITEM #	TEXTURED STAINLESS ITEM #	DESCRIPTION
36680	36687	36693		Corner station and 46"-48" (177-122 cm) units
36681	36688	36694		60"-62" (152-157 cm) units
36682	36689	36695		74"-76" (188-193 cm) units
98835	98835	98836		88"-90" (224-229 cm) units
36683	36690	36696		28"-32" (71-81 cm) utility and entrée cart
36685	36691	36697		Cashier station
36686	36692	—		Tray and flatware
—	—	—	98616	Crescent textured countertop
—	—	—	98617	Crescent textured plate rest (each)

Choose from one of our four standard graphic packages designed or create your own for a custom look.



Defining Your COUNTERTOPS



STAINLESS STEEL

LAMINATE

ACRYLIC SOLID SURFACE

- Get the look you want with a wide range of countertop options designed to fit your durability requirements and budget.
- We will help you through the tough decisions to make sure your finished project exceeds your expectations.



Outperform every day.™

Project:

Item Number:

Quantity:

BREATH GUARDS FOR SIGNATURE SERVER® WITH STAINLESS STEEL TOPS ONLY



Classic Cafeteria Single Deck



Classic Economy

Classic Cafeteria Double Deck



Access®

DESCRIPTION

Four breath guard styles designed to fit Signature Server® bases with stainless steel top provide the versatility to meet almost any serving need. Accessories include lights and heat strips.

FEATURES

- Stainless steel construction
- 1 tubular stainless steel uprights and end caps
- ¼" (6.4 mm) acrylic breath guard panels
- Double-shelf Classic Cafeteria has adjustable front breath guard panels with middle acrylic shelf
- Classic Economy has a stainless steel reinforcing center bracket
- The adjustable Access® breath guard height can be adjusted without tools

Step 1 Select Base Item		
Length	Standard Item No.	NSF Item No.
Classic Cafeteria Single Deck*		
28" (71)	37310	N37310
46" (117)	37311	N37311
60" (152)	37312	N37312
74" (188)	37313	N37313
88" (224)	9861006	N9861006
Classic Cafeteria Double Deck *		
28" (71)	37320	N37320
46" (117)	37321	N37321
60" (152)	37322	N37322
74" (188)	37323	N37323
88" (224)	9861707	N9861707
Classic Economy		
28" (71)	36300	N36300
46" (117)	36301	N36301
60" (152)	36302	N36302
74" (188)	36303	N36303
88" (224)	98607	N98607
Access® Buffet – Adjustable		
28" (71)	36339	N36339
46" (117)	36343	N36343
60" (152)	36363	N36363
74" (188)	36373	N36373
88" (224)	N/A	
Access® Buffet – Non-Adjustable		
28" (71)	36337	N36337
46" (117)	36341	N36341
60" (152)	36361	N36361
74" (188)	36371	N36371
88" (224)	9860206	N9860206
Entree Cart		
28" (71)	36380	N/A

Optional Step 2 Select Accessories	
Length	Item No.
Fluorescent Lights	
46" (117)	36421
60" (152)	36422
74" (188)	36423
88" (224)	98622
Incandescent/Infrared Lights	
Entree unit	36440
46" (117)	36431
60" (152)	36432
74" (188)	36433
88" (224)	98625
Cayenne® Heat Strips	
46" (117)	36401
60" (152)	36402
74" (188)	36403
88" (224)	98623
Cayenne® Heat Strips w/ Lights	
46" (117)	36411
60" (152)	36412
74" (188)	36413
88" (224)	98624

Note: Signature Server® equipment orders cannot be canceled or returned.

WARRANTY: All models shown come with Vollrath's standard warranty against defects in materials and workmanship. For full warranty details, please refer to the Vollrath Equipment and Smallwares Catalog.

Approvals	Date

Due to continued product improvement, please consult www.vollrath.com for current product specifications.

Breath Guards for Signature Server® with Stainless Steel Tops Only The Vollrath Company, L.L.C.



Outperform every day.™

www.vollrath.com

Jefferson Middle School

The Vollrath Company, L.L.C.
1236 North 18th Street
Sheboygan, WI 53081-3201 U.S.A.
Customer Service: 800.628.0830
Canada Customer Service: 800.695.8560
Main Fax: 800.752.5620 or 920.459.6573

Orness Design Group

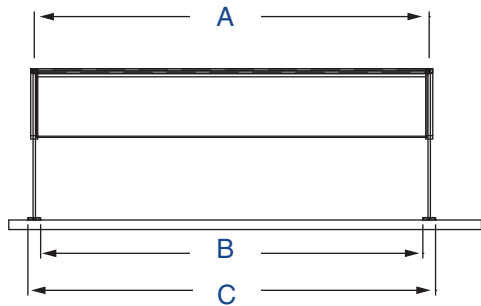
Technical Services: 800.628.0832
Technical Services Fax: 920.459.5462

BREATH GUARDS FOR SIGNATURE SERVER® WITH STAINLESS STEEL TOPS

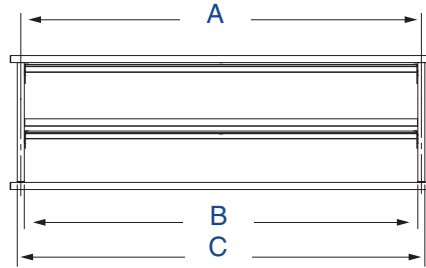
DIMENSIONS

Dimensions shown in inches (cm).

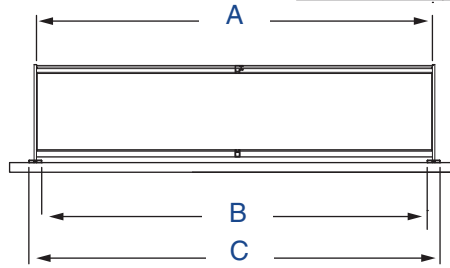
Front View



Classic Economy Buffet and Access®



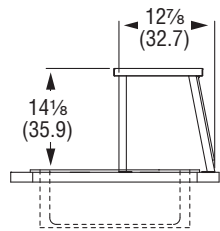
Classic Cafeteria Double Shelf



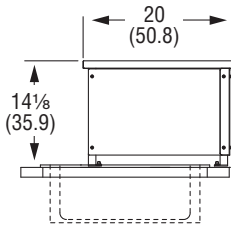
Classic Cafeteria Single Shelf

Style	(A) Center Line to Center Line	(B) Inside of Flange to Inside of Flange	(C) Outside of Flange to Outside of Flange
Economy, Cafeteria Single Shelf, Cafeteria Double Shelf			
Two-Well/Pan	25 (63.5)	24 (61)	26 (66)
Three-Well/Pan	43 (109.2)	42 (106.7)	44 (111.8)
Four-Well/Pan	57 (144.8)	56 (142.2)	58 (147.3)
Five-Well/Pan	71 (180.3)	70 (177.8)	72 (182.9)
Six-Well/Pan	85 (215.9)	84 (213.4)	86 (218.4)
Access®			
Two-Well/Pan	25 (63.5)	23 ³ / ₈ (60)	26 ³ / ₈ (67)
Three-Well/Pan	43 (109.2)	41 ¹ / ₈ (105.7)	44 ³ / ₈ (112.7)
Four-Well/Pan	57 (144.8)	55 ⁵ / ₈ (141.3)	58 ³ / ₈ (148.3)
Five-Well/Pan	71 (180.3)	69 ⁵ / ₈ (176.8)	72 ³ / ₈ (183.8)
Six-Well/Pan	85 (215.9)	83 ³ / ₈ (212.4)	86 ³ / ₈ (219.4)

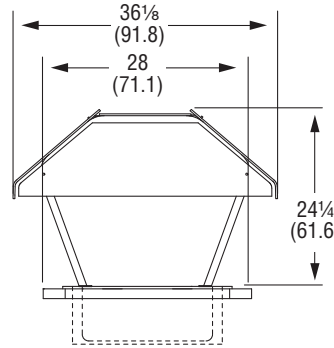
Side View



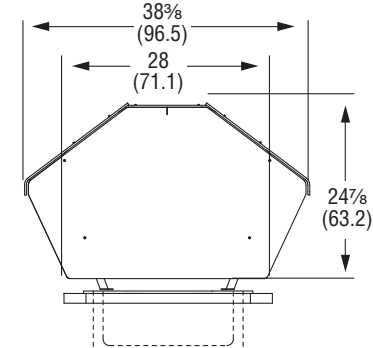
*Single Shelf
Cafeteria Standard*



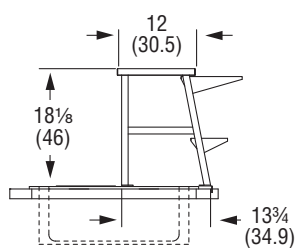
*Single Shelf
Cafeteria NSF*



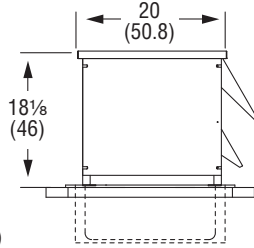
*Classic Economy
Buffet Standard*



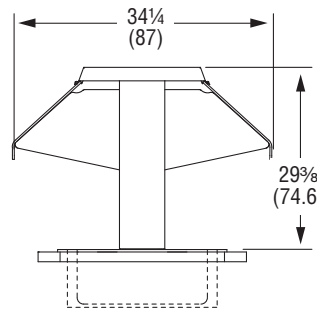
*Classic Economy
Buffet NSF*



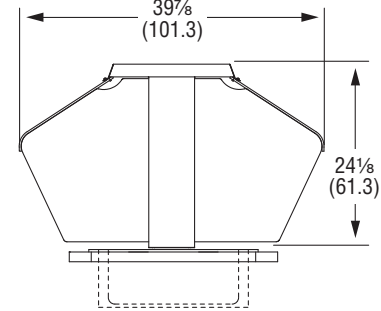
*Double Shelf
Cafeteria Standard*



*Double Shelf
Cafeteria NSF*



Access® Standard



Access® NSF



Outperform every day.™

www.vollrath.com

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1236 North 18th Street
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Main Fax: 800.752.5620 or 920.459.6573

Technical Services: 800.628.0832
Technical Services Fax: 920.459.5462

Breath Guards for Stainless Steel Counters Only

- Stainless steel construction
- ¼" (.6 cm) acrylic breath guard panels
- Cafeteria guards have 300 series stainless steel top shelf, and double-shelf model has adjustable front breath guard panels with middle acrylic shelf
- Access® adjustable breath guards have 9" to 15" (22.9 to 38.1 cm) serving opening height adjustment



Single-Shelf Cafeteria



Double-Shelf Cafeteria



Economy Buffet



Access® Buffet

DESCRIPTION	ITEM # L: 28 IN L: 71 CM	ITEM # L: 46 IN L: 117 CM	ITEM # L: 60 IN L: 152 CM	ITEM # L: 74 IN L: 188 CM	ITEM # L: 88 IN L: 224 CM
CLASSIC CAFETERIA BREATH GUARDS					
Single-shelf cafeteria	37310	37311	37312	37313	9861006
NSF2 single-shelf cafeteria	N37310	N37311	N37312	N37313	N9861006
Double-shelf cafeteria	37320	37321	37322	37323	9861707
CLASSIC ECONOMY BUFFET BREATH GUARDS					
Buffet breath guard	36300	36301	36302	36303	98607
NSF2 buffet breath guard	N36300	N36301	N36302	N36303	N98607
ACCESS® BREATH GUARDS					
Access® buffet, adjustable*	36339	36343	36363	36373	—
NSF2 Access® buffet, adjustable*	N36339	N36343	N36363	N36373	—
Access® buffet, non-adjustable	36337	36341	36361	36371	9860206
NSF2 Access® buffet, non-adjustable	N36337	N36341	N36361	N36371	N9860206

Note: To order stand-alone breath guards, add "RPL" to end of item number.

Light and Heat Strips



- Master on/off switch
- Stainless steel mounting assembly
- Incandescent/infrared accepts standard base incandescent bulbs or heat lamps up to 250W; cone-shaped reflector shields concentrate heat over well
- Clear plastic tube shield for fluorescent lights
- Heat strips cannot be specified for double-shelf cafeteria breath guard
- Access® adjustable breath guards have 9" to 15" (22.9 to 38.1 cm) serving opening height adjustment

DESCRIPTION	ITEM # ENTRÉE UNIT	ITEM # L: 46 IN L: 117 CM	ITEM # L: 60 IN L: 152 CM	ITEM # L: 74 IN L: 188 CM	ITEM # L: 88 IN L: 224 CM
Incandescent/infrared*	36440	36431	36432	36433	98625
Fluorescent*		36421	36422	36423	98622
Heat strip		36401	36402	36403	98623
Heat strip with lights*		36411	36412	36413	98624

*Bulbs and lamps not supplied – order separately.
White 250W Bulb – Item 72242. Red 500W Bulb – Item 72241

Classic Speed-Serve Options

- Angled serving shelves
- 1" (2.5 cm) stainless steel tubing
- Frame welded at each seam



Baskets not included

ITEM #	DESCRIPTION
36392	46" (117 cm) two-shelf
36393	60" (162 cm) two-shelf
36394	74" (188 cm) two-shelf
36395	88" (224 cm) two-shelf
36396	46" (117 cm) single-shelf with lights
36397	60" (162 cm) single-shelf with lights
36398	74" (188 cm) single-shelf with lights
36390	88" (224 cm) single-shelf with lights



Jefferson Middle School

11/29/2023

ITEM# 77.1 - SNEEZE GUARDS (4 EA REQ'D)

Vollrath

(or District Approved equal)

Included with Hot Food Serving Carts (Item #77). See Item #77 for more information.



Jefferson Middle School

11/29/2023

ITEM# 78 - SERVING COUNTER, COLD FOOD (4 EA REQ'D)

Vollrath 37066

(or District Approved equal)

4-Series Signature Server® Stainless Steel Countertop with NSF7 Cold Station, self contained refrigeration, 60"W x 28"D x 34"H, Bloomington-style recessed well displays pans 3" below work surface, coils surround sidewalls, accommodates 6" deep pans, polyurethane foam insulation, standard well drains, seamless display pan well opening 19-7/8" x 50-1/4" x 6-5/8" deep, 1/4 HP, 5.2amps, NEMA 5-15P, 120v/60/1-ph, cULus, NSF, Made in USA

ACCESSORIES

Mfr	Qty	Model	Spec
Vollrath	4	SS4CASTERS	4-Series Signature Server® Swivel Casters, 4"H, (2) braked, standard
Vollrath	4		120v/60/1-ph
Vollrath	4	36694	All Stainless finish for 4-Series Signature Server® with stainless steel countertops, 60"W models
Vollrath	4	N36302	NSF2 (2011) Classic Economy Buffet Breath Guard, for 60"W 4-Series Signature Server®, stainless steel uprights, clear acrylic with clear acrylic end panels
Vollrath	4	9879304	Upgrade to 14 gauge stainless steel work surface for, 60"W 4-Series Signature Server® Cold Pan
Vollrath	4	NO LIGHT OR HEAT	No lights or heating, standard
Vollrath	4	375231450-2-O	4-Series Signature Server® V-rib Tray Slide, for operator side, 60"W x 12"D, fold-down/lift-off brackets, 14/300 series stainless steel
Vollrath	4	375231450-2-C	4-Series Signature Server® V-rib Tray Slide, for customer side, 60"W x 12"D, fold-down/lift-off brackets, 14/300 series stainless steel
Vollrath	4	36915-2	Perforated False Bottom for 4-Series Signature Server® with Stainless Steel Countertops 60" Cold Food Pan Station
Vollrath	4		Note: must add an "M" to model number when ordering any special fabrication option
Vollrath	4	98850	Work surface flange modified with line-up locks, Keyhole slots on diagonal corners with stainless slide attached to side of base



Project:

Item Number:

Quantity:

Signature Server® NSF7 Refrigerated Stations with Stainless Steel Counters



ITEMS

Item No.	Width	Height
37046	46" (117 cm)	34" (86 cm)
36146		30" (76 cm)
37066	60" (152 cm)	34" (86 cm)
36166		30" (76 cm)
37076	74" (188 cm)	34" (86 cm)
36176		30" (76 cm)
98710	88" (224 cm)	34" (86 cm)

STANDARD FEATURES

- Holds food temperatures between 33°F and 41°F (0.6°C and 5°C)
- Reinforced stainless steel unibody construction provides extra durability in a lightweight, mobile base
- Base is 18-gauge 400 series stainless steel with applied black laminate
- Top is one-piece 18-gauge 300 series stainless steel
- Recessed display well constructed of 18-gauge 300 series stainless steel
- Refrigeration coils surround sides of recess and display well
- Uses R513A, a non-flammable low Global Warming Potential (GWP) refrigerant
- Foamed-in-place polyurethane insulation
- 1" (2.5 cm) drain standard
- Drain hose and valve on operator side of base
- Heavy-duty 4" (10 cm) swivel casters with brakes
- 8 ft. (2.4 m) cord

Note: Signature Server® equipment orders cannot be canceled or returned.

WARRANTY

All models shown come with Vollrath's standard warranty against defects in materials and workmanship. For full warranty details, please refer to www.Vollrath.com.

Approvals	Date

Due to continued product improvement, please consult www.vollrath.com for current product specifications.

OPTIONS

BASE

- Black Laminate (Standard)
- Matte Laminate. Specify manufacturer/color: _____
- Wood Grain. Specify manufacturer/color: _____

- Stainless Steel
- Food Word Wrap Food Images Wrap
- Bubbles Wrap Checkerboard Wrap
- Toe Kick
- Electrical Outlet
- Line Locks

COUNTERTOP

- 18 Ga Stainless Steel (Standard)
- 14 Ga Stainless Steel
- Textured Stainless Steel

BREATH GUARD

See Breath Guard Spec Sheet.

For Stainless Steel Countertops Only

- Classic Cafeteria, Single Shelf NSF Stnd
- Classic Cafeteria, Dbl. Shelf NSF Stnd
- Classic Economy Buffet NSF Stnd
- Access® - Adjustable NSF Stnd
- Access® - Non-Adjustable NSF Stnd

Traditional Style

- Double-Sided Buffet NSF Stnd
- Single-Sided Buffet NSF Stnd
- Single-Sided Buffet w/ Shelf NSF Stnd
- Cafeteria with Top Shelf NSF Stnd
- Vertical Cafeteria NSF Stnd

Progressive Style

- Double-Sided Buffet NSF Stnd
- Single-Sided Buffet w/ Shelf NSF Stnd
- Single-Sided Buffet NSF Stnd
- Cafeteria with Top Shelf NSF Stnd

Contemporary Style

- Double-Sided Buffet NSF Stnd
- Single-Sided Buffet w/ Shelf NSF Stnd
- Single-Sided Buffet NSF Stnd
- Cafeteria with Top Shelf NSF Stnd

BREATH GUARD COLOR

Progressive and Traditional

- Gray Hammer (Progressive Only)
- Aluminum (Traditional Only)
- Chrome Brass Powder Coat
- Blk. 80% Gloss Blk. Hammer Semi-Gloss

Progressive and Traditional (Cont.)

- Copper Vein White Hammer
- Silver Vein Black/White

Contemporary

- Brushed Black 80% Gloss
- Stainless Steel Brass Powder Coat

LIGHTING

See Breath Guard Spec Sheet.

- Incandescent Fluorescent LED

ADDITIONAL CUSTOM OPTIONS

Contact Vollrath Representative.

EXTENDED WARRANTY

Contact Vollrath Representative for details.

ACCESSORIES

See Signature Server Accessories Spec Sheet. Some options require a custom quote.

Plate Rest w/ Mounting Kit (Stainless Steel)

- Customer Side Plain Textured
- Operator Side Plain Textured

Tray Slide, V-rib (Stainless Steel)

- Customer Side 18 Ga 14 Ga
- Operator Side 18 Ga 14 Ga

Tray Slide, Tubular (Stainless Steel)

- Customer Side Operator Side

Cutting Board

- Maple Hardwood White Poly

End Shelf (Stainless Steel)

- Operator Left Operator Right
- Operator Left and Operator Right

False Bottom

- False Bottom

Storage Module

- With Doors Without Doors

Bag in Box

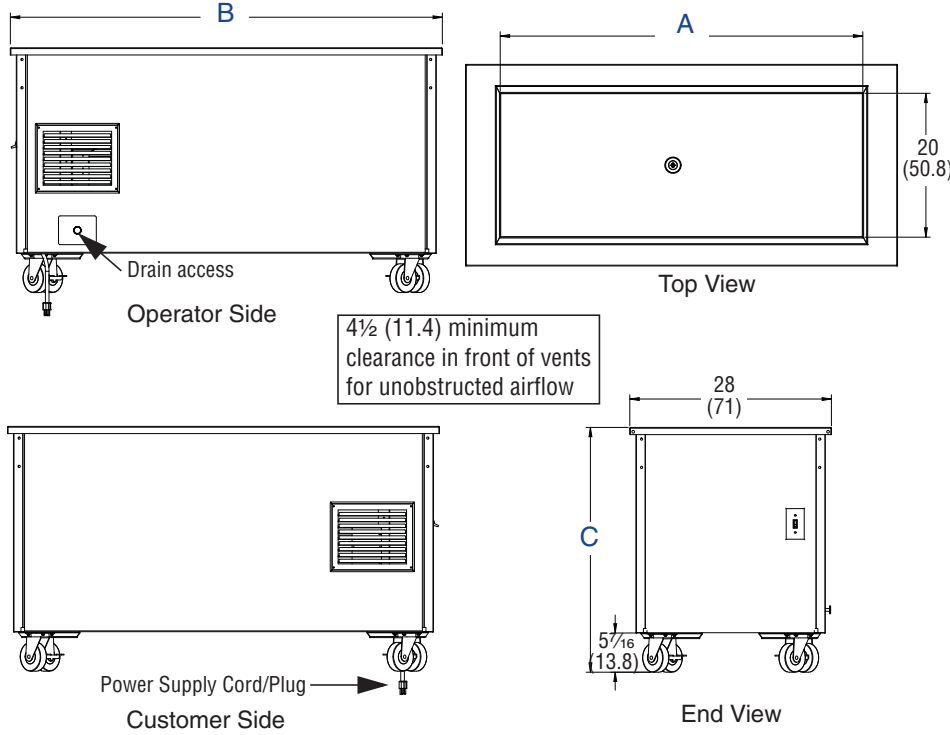
- Stainless Steel With Doors
- Galvanized Without Doors

Stationary Legs

- Adjustable 4-5" Adjustable 6-7"

Signature Server® NSF7 Refrigerated Stations with Stainless Steel Counters

DIMENSIONS (Shown in inches (cm))



Item No.	(A) Pan Width	(B) Overall Width	(C) Height
37046	37 5/8	46	34 (86)
36146	(95.5)	(117)	30 (76)
37066	50 3/8	60	34 (86)
36166	(127.9)	(152)	30 (76)
37076	63 1/8	74	34 (86)
36176	(160.3)	(188)	30 (76)
98710	75 7/8	88 (224)	34 (86)

Note: For breath guard and accessory dimensions, see the breath guard and accessory spec sheets on vollrath.com

SPECIFICATIONS

Overall Width IN (CM)	Base Unit Voltage	Comp (HP)	Peak Heat of Rejection (BTUH)	Refrig. Charge (OZ)	Lighting	Total Amps	Plug	Receptacle
46 (117)	120	1/5	2800	7	Fluorescent	4.1	NEMA 5-15P	 120V NEMA 5-15R
					Incandescent	4.4		
					None	3.8		
Fluorescent					8.1			
Incandescent					8.6			
None					7.8			
60 (152)		7.5	4800	7.5	Fluorescent	8.1		
					Incandescent	8.8		
					None	7.8		
74 (188)	8	4800	8	Fluorescent	8.1			
				Incandescent	8.8			
				None	7.8			
88 (224)								



www.vollrath.com

The Vollrath Company, L.L.C.
 1236 North 18th Street
 Sheboygan, WI 53081-3201 U.S.A.
 Main Tel: 800.624.2051 or 920.457.4851
 Main Fax: 800.752.5620 or 920.459.6573
 Customer Service: 800.628.0830

Technical Services
 techservicereps@vollrathco.com
 Induction Products: 800.825.6036
 Countertop Warming Products:
 800.354.1970
 All Other Products: 800.628.0832

Rectangular Bases with Integrated Equipment (stainless tops only)



Hot Food Bases with Touch-Temp® Panel



Bain Marie Hot Station



NSF7 Cold Stations



Cold Food Stations



Hot/Cold Food Stations



Beverage Counters



Frost Top Stations



Utility Stations



Milk Stations



Tray and Flatware Cart



Universal Corner Station



Entrée Cart



Cashier Station

ITEM	DESCRIPTION	DIMENSIONS L X W: IN (CM)	NSF LISTED	UL LISTED	ITEM # H:34" (86 CM)	ITEM # H:30" (76 CM)	ITEM # H:27" (69 CM)
Hot food base with touch-temp panel	3-well	46 x 28 (117 x 71)	NSF	UL	37030	36130	36230
Hot food base with touch-temp panel	4-well	60 x 28 (152 x 71)	NSF	UL	37040	36140	36240
Hot food base with touch-temp panel	5-well	74 x 28 (188 x 71)	NSF	UL	37050	36150	36250
Hot food base with touch-temp panel	6-well	88 x 28 (224 x 71)	NSF	UL	98888	—	—
Bain marie hot station	3-well	46 x 28 (117 x 71)	—	UL	37047	36447	36347
Bain marie hot station	4-well	60 x 28 (152 x 71)	—	UL	37057	36457	36357
Bain marie hot station	5-well	74 x 28 (188 x 71)	—	UL	37067	36468	36367
Bain marie hot station	6-well	88 x 28 (224 x 71)	—	UL	37077	3647700	36377
Cold station	NSF7 refrigerated	46 x 28 (117 x 71)	NSF	UL	37046	36146	—
Cold station	NSF7 refrigerated	60 x 28 (152 x 71)	NSF	UL	37066	36166	—
Cold station	NSF7 refrigerated	74 x 28 (188 x 71)	NSF	UL	37076	36176	—
Cold station	NSF7 refrigerated	88 x 28 (224 x 71)	NSF	UL	98710	—	—
Cold station	Refrigerated	46 x 28 (117 x 71)	—	UL	37045	36145	36245
Cold station	Refrigerated	60 x 28 (152 x 71)	—	UL	37065	36165	36265
Cold station	Refrigerated	74 x 28 (188 x 71)	—	UL	37075	36175	36275
Cold station	Refrigerated	88 x 28 (224 x 71)	—	UL	98708	—	—
Cold station	Non-refrigerated	46 x 28 (117 x 71)	NSF	—	37043	36143	36243
Cold station	Non-refrigerated	60 x 28 (152 x 71)	NSF	—	37060	36160	36260
Cold station	Non-refrigerated	74 x 28 (188 x 71)	NSF	—	37070	36170	36270
Cold station	Non-refrigerated	88 x 28 (224 x 71)	NSF	—	98707	—	—
Hot/cold food station	Refrigerated	74 x 28 (188 x 71)	NSF	UL	37095	36195	36295
Hot/cold food station	Non-refrigerated	74 x 28 (188 x 71)	NSF	UL	37091	36191	36291
Utility station	Utility station	28 x 28 (71 x 71)	NSF	UL	37020	36120	36220
Utility station	Utility station	46 x 28 (117 x 71)	NSF	UL	37021	36121	36221
Utility station	Utility station	60 x 28 (152 x 71)	NSF	UL	37022	36122	36222
Utility station	Utility station	74 x 28 (188 x 71)	NSF	UL	37023	36123	36223
Utility station	Utility station	88 x 28 (224 x 71)	NSF	UL	98711	—	—
Beverage counter	Beverage counter	46 x 28 (117 x 71)	NSF	—	37025	36125	—
Beverage counter	Beverage counter	60 x 28 (152 x 71)	NSF	—	37026	36126	—
Beverage counter	Beverage counter	74 x 28 (188 x 71)	NSF	—	37027	36127	—
Universal corner station	Corner station	28 x 28 (71 x 71)	NSF	UL	37085	36185	36285
Entrée cart	Entrée cart	46 x 28 (117 x 71)	NSF	—	37080	—	—
Frost top station	Frost top	46 x 28 (117 x 71)	—	UL	37012	36112	36212
Frost top station	Frost top	60 x 28 (152 x 71)	—	UL	37013	36113	36213
Frost top station	Frost top	74 x 28 (188 x 71)	—	UL	37014	36114	36214
Frost top station	Frost top	88 x 28 (224 x 71)	—	UL	36115	36117	36116
Cashier station	Cashier station	28 x 28 (71 x 71)	NSF	UL	37015	—	—
Tray and flatware cart	Tray and flatware cart	38 x 22½ (96.5 x 57.2)	NSF	—	99305	—	—
Milk station	Milk station	60 x 28 (152 x 71)	NSF	UL	37001	—	—
Milk station	Milk station	74 x 28 (188 x 71)	NSF	UL	37002	—	—



Outperform every day.™

Project:

Item Number:

Quantity:

Signature Server® Cold Food Stations with Stainless Steel Counters

The Vollrath Company, L.L.C.

SIGNATURE SERVER® COLD FOOD STATIONS WITH STAINLESS STEEL COUNTERS



Signature Server® Cold Food Station with Stainless Steel Counters

FEATURES

- Vollrath's Signature Server® Cold Food Stations with Stainless Steel Counters are available in non-refrigerated and refrigerated models
- Reinforced stainless steel unibody construction provides extra durability in a lightweight, mobile base
- Base is 18-gauge 400 series stainless steel clad with black laminate. Optional colors and finishes are also available.
- Top is one-piece 18-gauge 300 series stainless steel
- Optional 14 gauge work surface available
- Well constructed of 18-gauge 300 series stainless steel
- Foamed-in-place polyurethane insulation
- R134A refrigerant
- Drain hose on operator side of base
- Heavy-duty 4" (10 cm) swivel casters with brakes
- 8 ft. (2.4 m) cord
- Non-refrigerated models are NSF2
- Refrigerated models are not NSF
- Storage not available on 46" models

Note: Signature Server® equipment orders cannot be cancelled or returned.

WARRANTY: All models shown come with Vollrath's standard warranty against defects in materials and workmanship. For full warranty details, please refer to www.Vollrath.com.

DESCRIPTION

Signature Server® is the choice when functionality and modular ease of use are your top priorities. Signature Server® Serving Equipment is an industry standard, with updated features to better serve the operator.

MODELS AND OPTIONS

Base					Options			Breath Guards	Lighting	Accessories
Length	Style	Height / Item No			Color (Black is standard)					
		27 (69)	30 (76)	34 (86)	Matte Laminate	Wood Grain	Stainless Steel			
46" (117)	Non-Refrig	36243	36143	37043	36680	36687	36693	Choose from: Progressive, Contemporary, Traditional, Classic Cafeteria, Classic Economy Buffet, Access® and Classic Speed Serve. See Breath Guard spec sheets on vollrath.com for selection information.	Choose from: Incandescent, or fluorescent lights. See Breath Guard spec sheets on vollrath.com for selection information.	Choose from: Plate rests, cutting boards, end shelf, tray slides, storage modules, false bottoms, bag in box, stationary legs. See Accessories spec sheet on vollrath.com for selection information.
	Refrig	36245	36145	37045						
60" (152)	Non-Refrig	36260	36160	37060	36681	36688	36694			
	Refrig	36265	36165	37065						
74" (188)	Non-Refrig	36270	36170	37070	36682	36689	36695			
	Refrig	36275	36175	37075						
88" (224)	Non-Refrig	-	-	98707	98835	98835	93836			
	Refrig	-	-	98708						

Use only Vollrath accessories, including breath guards. Vollrath is not responsible for the fit or installation of custom made accessories and components. Custom accessories and components may void agency listings.

Agency Certifications



Refrigerated models are not NSF

Due to continued product improvement, please consult www.vollrath.com for current product specifications.

Approvals	Date



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Jefferson Middle School

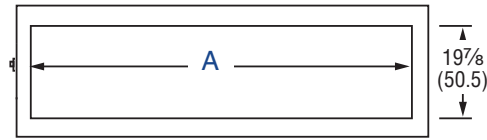
The Vollrath Company, L.L.C.
 1236 North 18th Street
 Sheboygan, WI 53081-3201 U.S.A.
 Customer Service: 800.628.0830
 Canada Customer Service: 800.695.8560
 Main Fax: 800.752.5620 or 920.459.6573

Orness Design Group

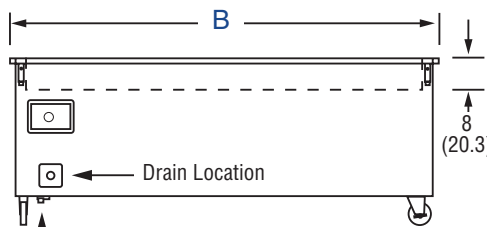
Technical Services: 800.628.0832
 Technical Services Fax: 920.459.5462

SIGNATURE SERVER® COLD FOOD STATIONS WITH STAINLESS STEEL COUNTERS

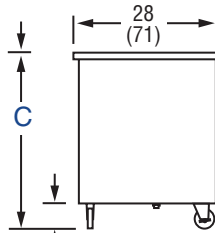
DIMENSIONS (Shown in inches (cm))



Top View



Operator Side View



End View

Clearance between base and floor 5 1/4 (13.3)

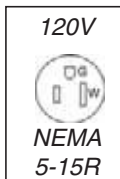
Item No.		(A) Pan Length	(B) Overall Length	(B) Height
Non-Refrig	Refrig			
36243	36245	37 3/4 (95.9)	46 (117)	27 (69)
36143	36145			30 (76)
37043	37045			34 (86)
36260	36265	50 1/4 (127.6)	60 (152)	27 (69)
36160	36165			30 (76)
37060	37065			34 (86)
36270	36275	63 (160)	74 (188)	27 (69)
36170	36175			30 (76)
37070	37075			34 (86)
-	-	75 3/4 (192.4)	88 (224)	27 (69)
-	-			30 (76)
98707	98708			34 (86)

For breath guard and accessory dimensions, see the breath guard and accessory spec sheets on vollrath.com

NON-REFRIGERATED ELECTRICAL SPECIFICATIONS

Base Unit Voltage	Lighting Choice	Length / Total Amps				Plug
		46 (117)	60 (152)	74 (188)	88 (224)	
120	Fluorescent	0.6	0.5	0.5	0.3	NEMA 5-15P
	Incandescent	0.6	0.8	1	1.3	
	None	-	-	-	-	

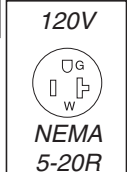
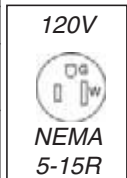
Receptacle



REFRIGERATED ELECTRICAL SPECIFICATIONS

Base Unit Voltage	Lighting Choice	Length											
		46 (117)			60 (152)			74 (188)			88 (224)		
		Total Amps	Plug	Compressor (HP)	Total Amps	Plug	Compressor (HP)	Total Amps	Plug	Compressor (HP)	Total Amps	Plug	Compressor (HP)
120	Fluorescent	4.1	NEMA 5-15P	1/5	5.2	NEMA 5-15P	1/4	5.2	NEMA 5-15P	1/4	7.8	NEMA 5-20P	1/3
	Incandescent	4.4			5.7			5.9			8.4		
	None	3.8			4.9			4.9			7.2		

Receptacles



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 Canada Customer Service: 800.695.8560
 Main Fax: 800.752.5620 or 920.459.6573


Technical Services: 800.628.0832
 Technical Services Fax: 920.459.5462

Determining Your COLOR & TEXTURE



Color and Texture Options

- All 4-Series base units come standard with 18-gauge stainless steel countertops and black laminate bases
- Endless optional-color laminates and vinyl veneer chips are available through local building supply vendors
- Formica®, Nevamar®, Pionite®, and Wilsonart® laminate finishes, among others
- Units can be ordered with all stainless steel construction
- Contemporary textured countertop and plate rest available on stainless steel construction

 Visit the following websites to select from a wide variety of laminates and textures: formica.com, wilsonart.com, pionite.com, nevamar.com

MATTE LAMINATE ITEM #	WOODGRAIN ITEM #	STAINLESS ITEM #	TEXTURED STAINLESS ITEM #	DESCRIPTION
36680	36687	36693		Corner station and 46"-48" (177-122 cm) units
36681	36688	36694		60"-62" (152-157 cm) units
36682	36689	36695		74"-76" (188-193 cm) units
98835	98835	98836		88"-90" (224-229 cm) units
36683	36690	36696		28"-32" (71-81 cm) utility and entrée cart
36685	36691	36697		Cashier station
36686	36692	—		Tray and flatware
—	—	—	98616	Crescent textured countertop
—	—	—	98617	Crescent textured plate rest (each)

Choose from one of our four standard graphic packages designed or create your own for a custom look.



Defining Your COUNTERTOPS



STAINLESS STEEL

LAMINATE

ACRYLIC SOLID SURFACE

- Get the look you want with a wide range of countertop options designed to fit your durability requirements and budget.
- We will help you through the tough decisions to make sure your finished project exceeds your expectations.



Outperform every day.™

Project:

Item Number:

Quantity:

Breath Guards for Signature Server® with Stainless Steel Tops Only

The Vollrath Company, L.L.C.

BREATH GUARDS FOR SIGNATURE SERVER® WITH STAINLESS STEEL TOPS ONLY



Classic Cafeteria Single Deck



Classic Economy

Classic Cafeteria Double Deck



Access®

DESCRIPTION

Four breath guard styles designed to fit Signature Server® bases with stainless steel top provide the versatility to meet almost any serving need. Accessories include lights and heat strips.

FEATURES

- Stainless steel construction
- 1 tubular stainless steel uprights and end caps
- ¼" (6.4 mm) acrylic breath guard panels
- Double-shelf Classic Cafeteria has adjustable front breath guard panels with middle acrylic shelf
- Classic Economy has a stainless steel reinforcing center bracket
- The adjustable Access® breath guard height can be adjusted without tools

Step 1 Select Base Item		
Length	Standard Item No.	NSF Item No.
Classic Cafeteria Single Deck*		
28" (71)	37310	N37310
46" (117)	37311	N37311
60" (152)	37312	N37312
74" (188)	37313	N37313
88" (224)	9861006	N9861006
Classic Cafeteria Double Deck *		
28" (71)	37320	N37320
46" (117)	37321	N37321
60" (152)	37322	N37322
74" (188)	37323	N37323
88" (224)	9861707	N9861707
Classic Economy		
28" (71)	36300	N36300
46" (117)	36301	N36301
60" (152)	36302	N36302
74" (188)	36303	N36303
88" (224)	98607	N98607
Access® Buffet – Adjustable		
28" (71)	36339	N36339
46" (117)	36343	N36343
60" (152)	36363	N36363
74" (188)	36373	N36373
88" (224)	N/A	
Access® Buffet – Non-Adjustable		
28" (71)	36337	N36337
46" (117)	36341	N36341
60" (152)	36361	N36361
74" (188)	36371	N36371
88" (224)	9860206	N9860206
Entree Cart		
28" (71)	36380	N/A

Optional Step 2 Select Accessories	
Length	Item No.
Fluorescent Lights	
46" (117)	36421
60" (152)	36422
74" (188)	36423
88" (224)	98622
Incandescent/Infrared Lights	
Entree unit	36440
46" (117)	36431
60" (152)	36432
74" (188)	36433
88" (224)	98625
Cayenne® Heat Strips	
46" (117)	36401
60" (152)	36402
74" (188)	36403
88" (224)	98623
Cayenne® Heat Strips w/ Lights	
46" (117)	36411
60" (152)	36412
74" (188)	36413
88" (224)	98624

Note: Signature Server® equipment orders cannot be canceled or returned.

WARRANTY: All models shown come with Vollrath's standard warranty against defects in materials and workmanship. For full warranty details, please refer to the Vollrath Equipment and Smallwares Catalog.

Approvals	Date

Due to continued product improvement, please consult www.vollrath.com for current product specifications.



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Orness Design Group

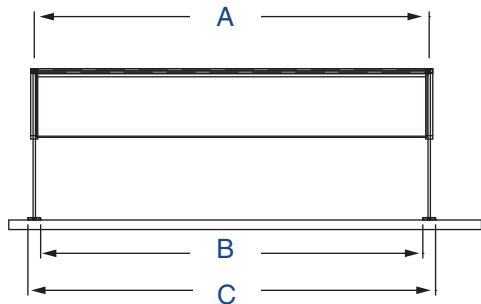
Technical Services: 800.628.0832
 Technical Services Fax: 920.459.5462

BREATH GUARDS FOR SIGNATURE SERVER® WITH STAINLESS STEEL TOPS

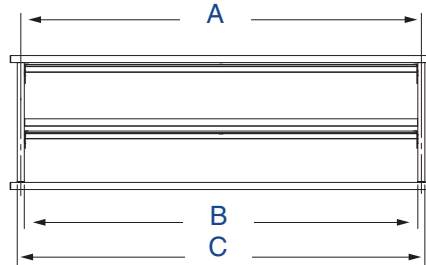
DIMENSIONS

Dimensions shown in inches (cm).

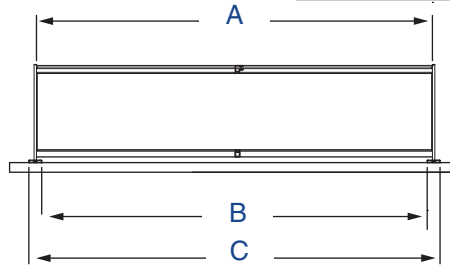
Front View



Classic Economy Buffet and Access®

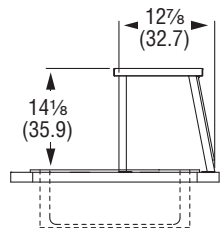


Classic Cafeteria Double Shelf

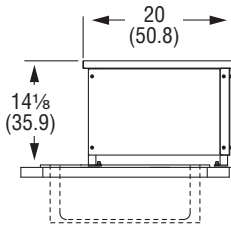


Classic Cafeteria Single Shelf

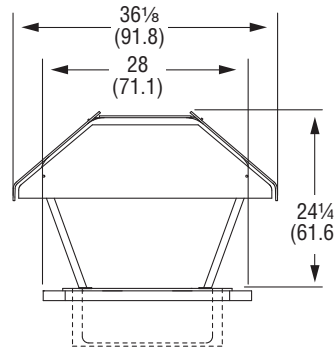
Side View



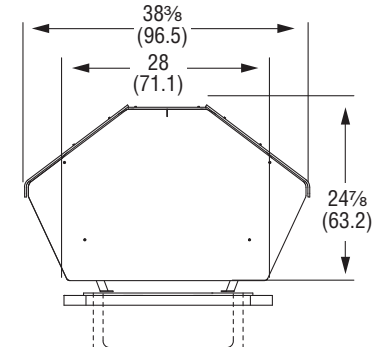
Single Shelf Cafeteria Standard



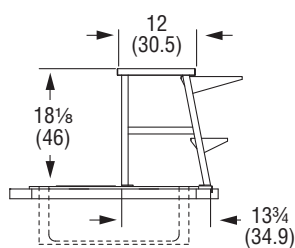
Single Shelf Cafeteria NSF



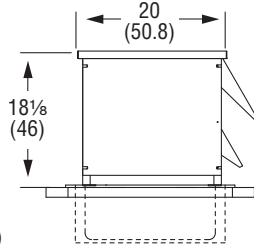
Classic Economy Buffet Standard



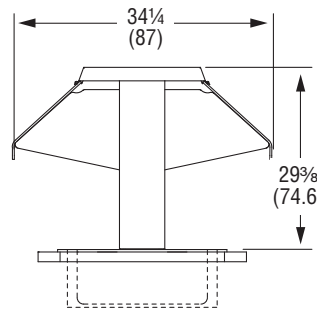
Classic Economy Buffet NSF



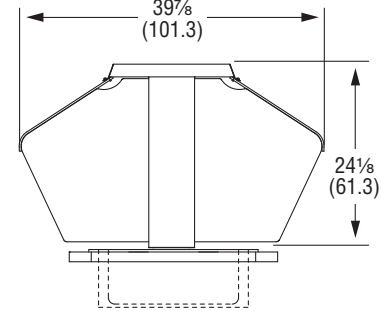
Double Shelf Cafeteria Standard



Double Shelf Cafeteria NSF



Access® Standard



Access® NSF

Style	(A) Center Line to Center Line	(B) Inside of Flange to Inside of Flange	(C) Outside of Flange to Outside of Flange
Economy, Cafeteria Single Shelf, Cafeteria Double Shelf			
Two-Well/Pan	25 (63.5)	24 (61)	26 (66)
Three-Well/Pan	43 (109.2)	42 (106.7)	44 (111.8)
Four-Well/Pan	57 (144.8)	56 (142.2)	58 (147.3)
Five-Well/Pan	71 (180.3)	70 (177.8)	72 (182.9)
Six-Well/Pan	85 (215.9)	84 (213.4)	86 (218.4)
Access®			
Two-Well/Pan	25 (63.5)	23 3/8 (60)	26 3/8 (67)
Three-Well/Pan	43 (109.2)	41 1/8 (105.7)	44 3/8 (112.7)
Four-Well/Pan	57 (144.8)	55 5/8 (141.3)	58 3/8 (148.3)
Five-Well/Pan	71 (180.3)	69 5/8 (176.8)	72 3/8 (183.8)
Six-Well/Pan	85 (215.9)	83 3/8 (212.4)	86 3/8 (219.4)



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Canada Customer Service: 800.695.8560
Main Fax: 800.752.5620 or 920.459.6573

Technical Services: 800.628.0832
Technical Services Fax: 920.459.5462

Breath Guards for Stainless Steel Counters Only

- Stainless steel construction
- ¼" (.6 cm) acrylic breath guard panels
- Cafeteria guards have 300 series stainless steel top shelf, and double-shelf model has adjustable front breath guard panels with middle acrylic shelf
- Access® adjustable breath guards have 9" to 15" (22.9 to 38.1 cm) serving opening height adjustment



Single-Shelf Cafeteria



Double-Shelf Cafeteria



Economy Buffet



Access® Buffet

DESCRIPTION	ITEM # L: 28 IN L: 71 CM	ITEM # L: 46 IN L: 117 CM	ITEM # L: 60 IN L: 152 CM	ITEM # L: 74 IN L: 188 CM	ITEM # L: 88 IN L: 224 CM
CLASSIC CAFETERIA BREATH GUARDS					
Single-shelf cafeteria	37310	37311	37312	37313	9861006
NSF2 single-shelf cafeteria	N37310	N37311	N37312	N37313	N9861006
Double-shelf cafeteria	37320	37321	37322	37323	9861707
CLASSIC ECONOMY BUFFET BREATH GUARDS					
Buffet breath guard	36300	36301	36302	36303	98607
NSF2 buffet breath guard	N36300	N36301	N36302	N36303	N98607
ACCESS® BREATH GUARDS					
Access® buffet, adjustable*	36339	36343	36363	36373	—
NSF2 Access® buffet, adjustable*	N36339	N36343	N36363	N36373	—
Access® buffet, non-adjustable	36337	36341	36361	36371	9860206
NSF2 Access® buffet, non-adjustable	N36337	N36341	N36361	N36371	N9860206

Note: To order stand-alone breath guards, add "RPL" to end of item number.

Light and Heat Strips



- Master on/off switch
- Stainless steel mounting assembly
- Incandescent/infrared accepts standard base incandescent bulbs or heat lamps up to 250W; cone-shaped reflector shields concentrate heat over well
- Clear plastic tube shield for fluorescent lights
- Heat strips cannot be specified for double-shelf cafeteria breath guard
- Access® adjustable breath guards have 9" to 15" (22.9 to 38.1 cm) serving opening height adjustment

DESCRIPTION	ITEM # ENTRÉE UNIT	ITEM # L: 46 IN L: 117 CM	ITEM # L: 60 IN L: 152 CM	ITEM # L: 74 IN L: 188 CM	ITEM # L: 88 IN L: 224 CM
Incandescent/infrared*	36440	36431	36432	36433	98625
Fluorescent*		36421	36422	36423	98622
Heat strip		36401	36402	36403	98623
Heat strip with lights*		36411	36412	36413	98624

*Bulbs and lamps not supplied – order separately.
White 250W Bulb – Item 72242. Red 500W Bulb – Item 72241

Classic Speed-Serve Options

- Angled serving shelves
- 1" (2.5 cm) stainless steel tubing
- Frame welded at each seam



Baskets not included

ITEM #	DESCRIPTION
36392	46" (117 cm) two-shelf
36393	60" (162 cm) two-shelf
36394	74" (188 cm) two-shelf
36395	88" (224 cm) two-shelf
36396	46" (117 cm) single-shelf with lights
36397	60" (162 cm) single-shelf with lights
36398	74" (188 cm) single-shelf with lights
36390	88" (224 cm) single-shelf with lights



Outperform every day.™

Project:

Item Number:

Quantity:

SIGNATURE SERVER® COUNTER ACCESSORIES AND OPTIONS



Signature Server® 4-Well Hot Food Station with optional: Access® Buffet Breath Guard with lights, storage, end shelf and plate rests.

Signature Server® Counter Accessories And Options

The Vollrath Company, L.L.C.

See Accessories and Options on the following pages for selection information.

Signature Server®		Counter Accessories and Options										
		Counter Accessories for Signature Server®						Options for Signature Server®				
		Tray Slide		Plate Rest	Cutting Board		End Shelf	Storage Module*	Bag in Box	Cash Drawer	False Bottom	Stationary Leg
V-Rib	Tubular	Wood	Poly									
Hot Food Stations	3 Well	X	X	X	X	X	X	X	X	-	-	X
	4 Well	X	X	X	X	X	X	X	X	-	-	X
	5 Well	X	X	X	X	X	X	X	X	-	-	X
	6 Well	X	X	X	X	X	X	X	X	-	-	X
Hot/Cold Food Stations	74"	X	X	X	X	X	X	*	X	-	X	X
Cold Food Stations	46"	X	X	X	X	X	X	X	X	-	X	X
	60"	X	X	X	X	X	X	X	X	-	X	X
	74"	X	X	X	X	X	X	X	X	-	X	X
	88"	X	X	X	X	X	X	X	X	-	X	X
NSF7 Cold Food Stations	46"	X	X	X	X	X	X	*	X	-	X	X
	60"	X	X	X	X	X	X	*	X	-	X	X
	74"	X	X	X	X	X	X	*	X	-	X	X
	88"	X	X	X	X	X	X	*	X	-	X	X
Frost Top Stations	46"	X	X	X	X	X	X	*	X	-	-	X
	60"	X	X	X	X	X	X	*	X	-	-	X
	74"	X	X	X	X	X	X	*	X	-	-	X
	88"	X	X	X	X	X	X	*	X	-	-	X
Bain Marie Stations	46"	X	X	X	X	X	X	X	X	-	-	X
	60"	X	X	X	X	X	X	X	X	-	-	X
	74"	X	X	X	X	X	X	X	X	-	-	X
	88"	X	X	X	X	X	X	X	X	-	-	X
Beverage Counters	46"	X	X	X	X	X	X	X	X	-	-	X
	60"	X	X	X	X	X	X	X	X	-	-	X
	74"	X	X	X	X	X	X	X	X	-	-	X
Milk Stations	60"	X	X	X	X	X	X	-	-	-	-	X
	74"	X	X	X	X	X	X	-	-	-	-	X
Utility Stations	28"	X	X	X	X	X	X	-	X	-	-	X
	46"	X	X	X	X	X	X	X	X	-	-	X
	60"	X	X	X	X	X	X	X	X	-	-	X
	74"	X	X	X	X	X	X	X	X	-	-	X
	88"	X	X	X	X	X	X	X	X	-	-	X
Cashier Station		X	X	X	X	X	-	X	-	X	-	X
Entree Cart		X	X	X	X	X	-	-	X	-	-	X
Corner Stations		X	X	X	-	-	X	X	X	-	-	X
Tray and Flatware Cart		-	-	-	-	-	-	-	-	-	-	X

* Non-standard option. Contact Vollrath for availability. Not available on Signature Server Curved Bases.



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Orness Design Group

Technical Services
techservicereps@vollrathco.com
Induction Products: 800.825.6036
Countertop Warming Products: 800.354.1970
All Other Products: 800.628.0832

SIGNATURE SERVER® COUNTER ACCESSORIES AND OPTIONS

COUNTER ACCESSORIES FOR SIGNATURE SERVER®

Tray Slide – V-Rib



- 400 Series stainless steel with 4 inverted “V” ribs.
- Bracket provides 4¾”(12.1 cm) tray slide height adjustment.
- Turned down flange is 12” (30.5 cm) wide with 1” (2.5 cm).
- Locking brackets on each end to join stations together.
- Adds 4” (10.2 cm) to width of unit in folded position.
- Removable for easy transport.

Width / Gauge / Item Number						
28" (71 cm)	46" (117 cm)	60" (152 cm)	74" (188 cm)	88" (224 cm)	Corner	
					Inside	Outside
18 Gauge						
37521	37522	37523	37524	98831	37519	37520
14 Gauge						
N/A	270280114-2	270290114-2	270300114-2	270310114-2	N/A	N/A

Tray Slide – Tubular



- 300 Series stainless steel.
- Bracket provides 4¾”(12.1 cm) tray slide height adjustment.
- Turned down flange is 12” (30.5 cm) wide with 1” (2.5 cm).
- Locking brackets on each end to join stations together.
- Adds 4” (10.2 cm) to width of unit in folded position.
- Removable for easy transport.

Width / Gauge / Item Number						
28" (71 cm)	46" (117 cm)	60" (152 cm)	74" (188 cm)	88" (224 cm)	Corner	
					Inside	Outside
18 Gauge						
9882001	9882003	9882004	9882005	9882006	9882007	9882008

Plate Rest



- 18-gauge 400 series stainless steel with fold-down style mounting bracket.
- Turned down flange is 7” (17.8 cm) wide with 1” (2.5 cm).
- Locking brackets on each end to join stations together.
- Adds 4” (10.2 cm) to width of unit in folded position.
- Removable without tools for easy transport.
- NSF

Width / Item Number						
28" (71 cm)	46" (117 cm)	60" (152 cm)	74" (188 cm)	88" (224 cm)	Corner	
					Inside	Outside
37511	37512	37513	37514	98829	37509	37510

Cutting Board – Wood



- Maple construction with fold-down style mounting brackets.
- Turned down flange is 8” (20.3 cm) wide with 1” (2.5 cm).
- Adds 4” (10.2 cm) to width of unit in folded position.

Width / Item Number					
28" (71 cm)	46" (117 cm)	60" (152 cm)	74" (188 cm)	88" (224 cm)	Corner
N/A	37551	37552	37553	98851	N/A

Cutting Board – Poly



- Polyethylene construction with fold-down style mounting brackets.
- Turned down flange is 8” (20.3 cm) wide with 1” (2.5 cm).
- Adds 4” (10.2 cm) to width of unit in folded position.

Width / Item Number					
28" (71 cm)	46" (117 cm)	60" (152 cm)	74" (188 cm)	88" (224 cm)	Corner
N/A	37561-2	37562	37563	98852	N/A

End Shelf



- 400 Series stainless steel with fold-down style mounting bracket.
- 18" x 28" (46 x 71 cm). 40 lb. (18.2 kg) capacity.
- Adds 4½”(11.4 cm) to length of unit in folded position.
- Must be factory installed.
- Not recommended for attachment to entree cart, cashier station or 28" utility station.
- NSF

Item Number
37570

SIGNATURE SERVER® COUNTER ACCESSORIES AND OPTIONS

OPTIONS FOR SIGNATURE SERVER®

Storage Module



- 400 Series stainless steel and formed to allow flange to fit over exterior surface of server base.
- Doors are stainless steel, clad with black laminate or optional finish.
- With doors includes key lock.
- Opening height of module is 16½" (42 cm).
- Depth is 25½" (64.8 cm).
- Not available on Signature Server® curved bases.
- NSF.

Fits	Width In (CM)	With Doors	Without Door
3-Well Hot, 60" Cold, 46" Beverage	24 (61)	36930	36931
4-Well Hot, 46" Utility, 74" Cold, 60" Beverage	36 (91.4)	36936	36937
5-Well Hot, 60" Utility, 74" Beverage	50 (127)	36938	36939
6-Well Hot, 74" Utility	64 (162.6)	36940	36941
88" Utility	64 (162.6)	36938-2	36939-2

Bag in Box



- Available in stainless steel or galvanized shelf options.
- Stainless steel door frame.
- Open storage without doors provides easy access.
- Access Concept Configurator™ at www.vollrath.com for a full list of accessories, including intermediate shelves.

Material	28" (71 cm)	46" (117 cm)	60" (152 cm)	74" (188 cm)	88" (224 cm)
Stainless Steel	N/A	36981	36983	36985	98790

Cash Drawer



Cash Drawer	
Drawer - steel, black powder coat finish (15 ⁷ / ₁₆ x 16 ³ / ₄ x 4 ¹ / ₂)	36945
Duplex Receptacle, 120V AC, 10A	36946

False Bottoms



- 18 gauge 400 Series stainless steel.
- Helps maintain ice longer.
- Sits 1" (2.5 cm) above well bottom.
- Perforated for easy draining.

Hot/Cold Food Stations	Cold Food Stations			
	46" (117 cm)	60" (152 cm)	74" (188 cm)	88" (224 cm)
36913	36914	36915	36916	98855-2

Stationary Legs



- Constructed of plated metal.
- Threaded insert with height adjustment of 1" (2.54 cm).

Leg	
Adjustable 4"- 5"	36921
4" Leg	2897451-2
6" Leg	2897452-2

Due to continued product improvement, please consult www.vollrath.com for current product specifications.

WARRANTY: All models shown come with Vollrath's standard warranty against defects in materials and workmanship. For full warranty details, please refer to www.Vollrath.com.

Approvals	Date

SIGNATURE SERVER® COUNTER ACCESSORIES AND OPTIONS

NOTES:



Outperform every day.™

www.vollrath.com

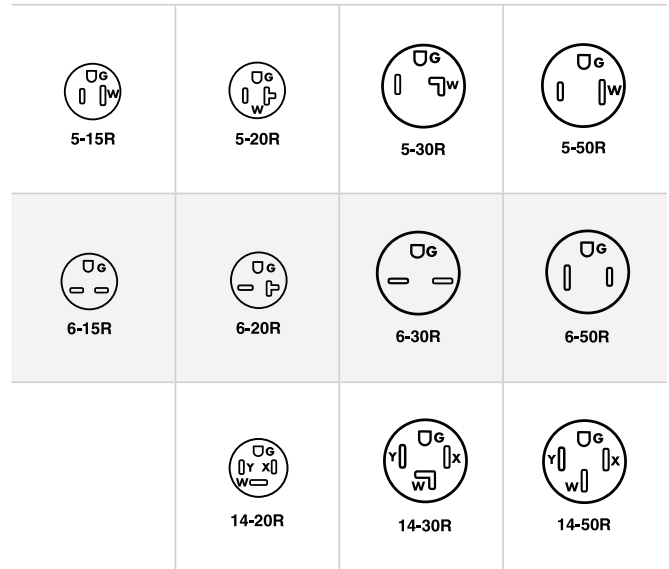
The Vollrath Company, L.L.C.

1236 North 18th Street
Sheboygan, WI 53081-3201 U.S.A.
Main Tel: 800.624.2051 or 920.457.4851
Main Fax: 800.752.5620 or 920.459.6573
Customer Service: 800.628.0830
Canada Customer Service: 800.695.8560

Technical Services
techservicereps@vollrathco.com
Induction Products: 800.825.6036
Countertop Warming Products: 800.354.1970
All Other Products: 800.628.0832

Specifying Your ELECTRICAL NEEDS

Receptacle Configurations



Adding Your ACCESSORIES

False Bottoms

- 300 series stainless steel
- Maintains ice longer
- 1" (2.5 cm) above well bottom
- Perforated for easy draining



ITEM #	DESCRIPTION
36913-2	Perforated false bottom, combination hot/cold food station
36914-2	Perforated false bottom, 46" (116.8 cm) cold food station
36915-2	Perforated false bottom, 60" (152.4 cm) cold food station
36916-2	Perforated false bottom, 74" (188 cm) cold food station
98855-5	Perforated false bottom, 88" (224 cm) cold food station

Storage Modules

- 300 series stainless steel
- Available with 34" (86.4 cm) high bases only
- With or without doors; key lock for sliding doors standard
- Opening height of module is: 16½" (42 cm)
- Depth: 25½" (64.8 cm)
- Sizing may vary based on unit size and modifications



DESCRIPTION	WIDTH IN (CM)	ITEM# W/ DOORS	ITEM# W/O DOORS
Fits 3-well hot, 60" (152.4 cm) cold, 46" (116.8 cm) beverage	24 (61)	36930	36931
Fits 4-well hot, 46" (116.8 cm) utility, 74" (188 cm) cold, 60" (152.4 cm) beverage	36 (91.4)	36936	36937
Fits 5-well hot, 60" (152.4 cm) utility, 74" (188 cm) beverage	50 (127)	36938	36939
Fits 6-well hot, 74" (188 cm) utility station	64 (162.6)	36940	36941
Fits 88" (224 cm) utility station	64 (162.6)	36938-2	36939-2



Jefferson Middle School

11/29/2023

ITEM# 78.1 - SNEEZE GUARDS (4 EA REQ'D)

Vollrath

(or District Approved equal)

Included with Cold Food Serving Carts (Item #78). See Item #78 for more information.



Jefferson Middle School

11/29/2023

ITEM# 79 - MILK COOLER (2 EA REQ'D)

Beverage Air SM34HC-S

(or District Approved equal)

School Milk Cooler, cold wall, normal temperature, 34"W x 30-5/8"D x 41-1/8"H, 12.73 cu. ft., single access, flat top carton capacities, (8) 13" x 13" x 11" or (4) 19" x 13" x 11" case capacity, self-latching doors/lids with safety bumpers, cylinder lock, wire floor racks, floor drain, electronic control, manual defrost, stainless steel interior & exterior, R290 Hydrocarbon refrigerant, 1/3 HP, cULus, UL EPH Classified, UL-Sanitation, Made in USA

ACCESSORIES

Mfr	Qty	Model	Spec
Beverage Air	2		Self-Contained refrigeration
Beverage Air	2		115v/60/1-ph, 2.2 amps, cord with NEMA 5-15P
Beverage Air	2		4" Heavy duty casters, (2) with brakes, standard



BEVERAGE-AIR

Project: _____	AIA#
Item: _____	SIS#
Location: _____	
Approved: _____	

SCHOOL MILK COLD WALL COOLER

SM34HC Single Access Cooler
Hydrocarbon Series

MODEL:
SM34HC-S



5 Year Parts/Labor Warranty Available
7 Year Compressor Warranty

CABINET CONSTRUCTION

- Stainless steel exterior and interior
- Stainless steel lids, hinged door and door latches
- Self-latching doors/lids with safety bumpers
- Full electronic control
- Heavy-duty epoxy coated steel wire floor racks standard
- Floor drain is centrally located for easy cleaning and connecting to drain hose with hose adapter
- Flexible compression door gaskets, ensures a tight seal
- Exterior thermometer
- Cylinder lock
- 4" Heavy-duty plate casters (2 with locks)
- Cold wall milk coolers are designed to hold product temperature during service. Product should be removed at the end of service and moved to long-term, refrigerated storage

OPTIONS & ACCESSORIES

- 3 Year parts/labor standard, additional 2 year warranty available
- Corner bumpers
- Cafeteria tray slides
- Graphics

REFRIGERATION SYSTEM

- Uses environmentally friendly, energy efficient R290 refrigerant, and meets all regulatory requirements for CARB, SNAP, DOE & more
- Maintains product temperature between 36°F to 40°F

SM34HC SINGLE ACCESS, COLD WALL: SCHOOL MILK SERIES



Please verify qualifying units by visiting:
www.energystar.gov/cfs

3779 Champion Blvd., Winston-Salem, NC 27105
1-888-845-9800 Fax: 1-336-245-6453
Beverage-Air.com Sales@bevair.com

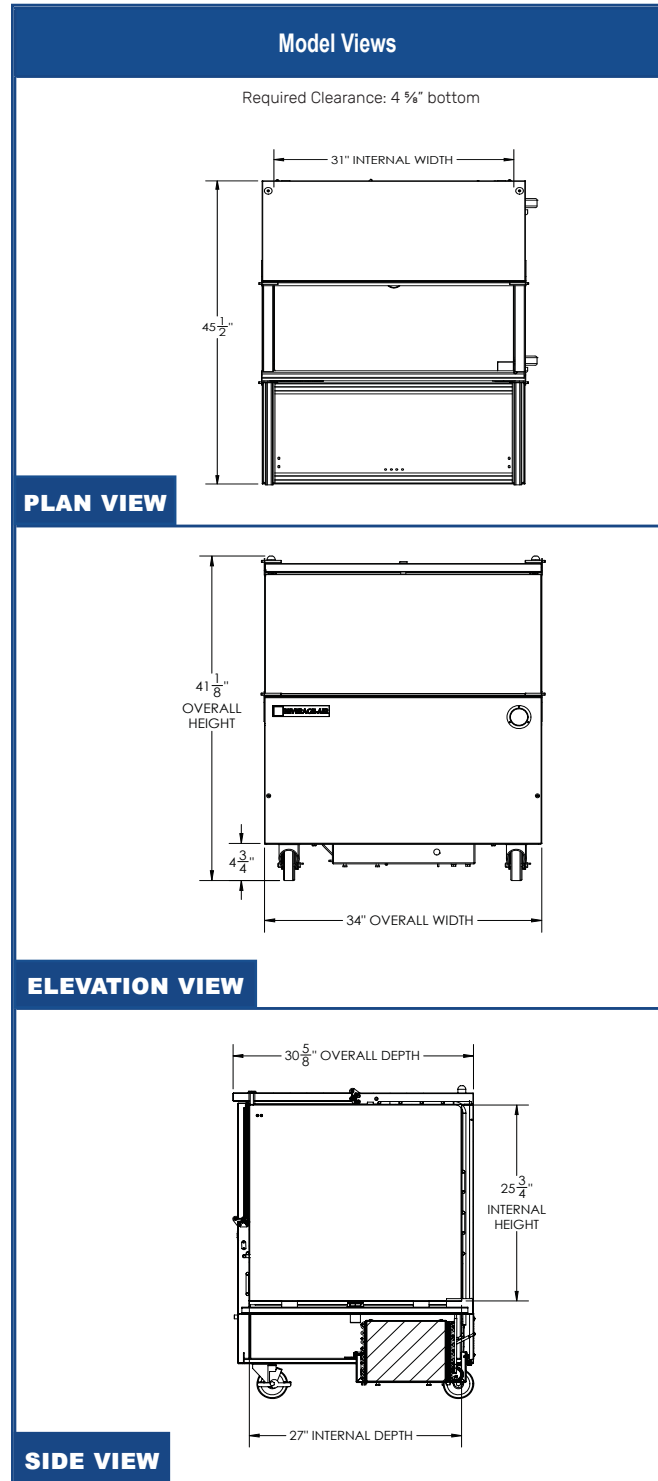


BEVERAGE-AIR®

MODEL	SM34HC-S
EXTERNAL DIMENSIONAL DATA	
Width Overall (in)	34"
Depth Overall (in)	30 ⁵ / ₈ "
Height Overall with Casters (in)	41 ¹ / ₈ "
Number of Lids/Doors	Single Access
Depth with Door Open 90° (in)	45 ¹ / ₂ "
INTERNAL DIMENSIONAL DATA	
NET Capacity (cubic ft.)	12.73
Internal Width Overall (in)	31"
Internal Depth Overall (in)	27"
Internal Height Overall (in)	25 ³ / ₄ "
CASE CAPACITY	
13" X 13" X 11"	8
19" X 13" X 11"	4
ELECTRICAL DATA	
Full Load Amperes	2.2
REFRIGERATION DATA	
Horsepower	1/3
Capacity (BTU/Hr)	1224
Heat Rejection (BTU/Hr)	1836
Charge (lbs/grams)	0.1323/60
SHIPPING DATA	
Gross Weight - Crated	252 lbs
Height - Crated	48"
Width - Crated	37"
Depth - Crated	34"

School Milk Cooler - Single Access

Model: SM34HC-S



ELECTRICAL CONNECTION



115/60/1
NEMA 5-15P

Unit pre-wired at factory and include 8' long cord and plug set.





Jefferson Middle School

11/29/2023

ITEM# 80 - P.O.S. STATION (1 EA REQ'D)

Vollrath M37021

(or District Approved equal)

4-Series Signature Server® Utility Serving Counter, 46"W x 28"D x 34"H, 16/300 series stainless steel top with 1" turndown on all sides, enclosed base, 18/400 series stainless steel unibody construction, cULus, NSF, Made in USA

ACCESSORIES

Mfr	Qty	Model	Spec
Vollrath	1	2YRWARR	Two Year Warranty on Signature Server Units - extension of standard warranty by (1) year
Vollrath	1	SS4CASTERS	4-Series Signature Server® Swivel Casters, 4"H, (2) braked, standard
Vollrath	1	36693	All Stainless finish for 4-Series Signature Server® with stainless steel countertops Corner Station & 46"W models
Vollrath	1	9879503	Upgrade to 14 gauge stainless steel work surface for, 46"W 4-Series Signature Server® Utility Station
Vollrath	1		smooth stainless counter, standard
Vollrath	1	M36981	***MODIFY FOR WHEELCHAIR ACCESS*** Opening Minimum size: 30"W x 19"D x 27"H (AFF)
Vollrath	1	36945	4-Series Signature Server® Cash Drawer, locking, drawer bell, steel construction, black powder coated finish, includes: ABS plastic removable money tray, with (5) coins & (5) bills capacity, stainless steel bill clips/hold downs, aluminum coin breaking plate



Outperform every day.™

Project:

Item Number:

Quantity:

Signature Server® Utility Stations with Stainless Steel Counters



ITEMS

Item No.	Length	Height
37020		34" (86 cm)
36120	28" (71 cm)	30" (76 cm)
36220		27" (76 cm)
37021		34" (86 cm)
36121	46" (117 cm)	30" (76 cm)
36221		27" (76 cm)
37022		34" (86 cm)
36122	60" (152 cm)	30" (76 cm)
36222		27" (76 cm)
37023		34" (86 cm)
36123	74" (188 cm)	30" (76 cm)
36223		27" (76 cm)
98711	88" (224 cm)	34" (86 cm)

STANDARD FEATURES

- Reinforced stainless steel unibody construction provides extra durability in a lightweight, mobile base
- Base is 18-gauge 400 series stainless steel with applied black laminate
- Top is one-piece 16-gauge 300 series stainless steel
- Heavy-duty 4" (10 cm) swivel casters with brakes

Note: Signature Server® equipment orders cannot be canceled or returned.

WARRANTY

All models shown come with Vollrath's standard warranty against defects in materials and workmanship. For full warranty details, please refer to www.Vollrath.com.

OPTIONS

BASE COLOR

- Black Laminate (Standard)
- Matte Laminate. Specify manufacturer/color:

- Wood Grain. Specify manufacturer/color:

- Stainless Steel

Vinyl Wrap

- Food Words Food Images
- Bubbles Checkerboard

COUNTERTOP MATERIAL

- 18 Ga Stainless Steel (Standard)
- 14 Ga Stainless Steel
- Textured Stainless Steel

BREATH GUARD STYLE

See Breath Guard Spec Sheet.

For Stainless Steel Countertops Only

- Classic Cafeteria, Single Shelf NSF Stnd
- Classic Cafeteria, Dbl. Shelf NSF Stnd
- Classic Economy Buffet NSF Stnd
- Access® - Adjustable NSF Stnd
- Access® - Non-Adjustable NSF Stnd

Traditional Style

- Double-Sided Buffet NSF Stnd
- Single-Sided Buffet NSF Stnd
- Single-Sided Buffet w/ Shelf NSF Stnd
- Cafeteria with Top Shelf NSF Stnd
- Vertical Cafeteria NSF Stnd

Progressive Style

- Double-Sided Buffet NSF Stnd
- Single-Sided Buffet w/ Shelf NSF Stnd
- Single-Sided Buffet NSF Stnd
- Cafeteria with Top Shelf NSF Stnd

Contemporary Style

- Double-Sided Buffet NSF Stnd
- Single-Sided Buffet w/ Shelf NSF Stnd
- Single-Sided Buffet NSF Stnd
- Cafeteria with Top Shelf NSF Stnd

BREATH GUARD COLOR

Progressive and Traditional

- Gray Hammer (Progressive Only)
- Aluminum (Traditional Only)
- Chrome Brass Powder Coat
- Blk. 80% Gloss Blk. Hammer Semi-Gloss
- Copper Vein White Hammer
- Silver Vein Black/White

Contemporary

- Brushed Black 80% Gloss
- Stainless Steel Brass Powder Coat

CUSTOM OPTIONS

Contact Vollrath Representative for all options.

- Toe Kick Electrical Outlet
- Back Splash Custom

EXTENDED WARRANTY

Contact Vollrath Representative for details.

ACCESSORIES

See Signature Server Accessories Spec Sheet.

Plate Rest w/ Mounting Kit (Stainless Steel)

- Customer Side Plain Textured
- Operator Side Plain Textured

Tray Slide, V-rib (Stainless Steel)

- Customer Side 18 Ga 14 Ga
- Operator Side 18 Ga 14 Ga

Tray Slide, Tubular (Stainless Steel)

- Customer Side Operator Side

Cutting Board

- Maple Hardwood White Poly

End Shelf (Stainless Steel)

- Operator Left Operator Right
- Operator Left and Operator Right

Storage Module

- With Doors Without Doors

Bag in Box

- Stainless Steel With Doors
- Galvanized Without Doors

Stationary Legs

- Adjustable 4-5" 4" Fixed 6" Fixed

Line Locks

- Line Locks

Approvals	Date

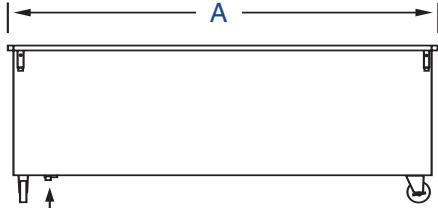
Due to continued product improvement, please consult www.vollrath.com for current product specifications.

Signature Server® Utility Stations with Stainless Steel Counters

DIMENSIONS (Shown in inches (cm))

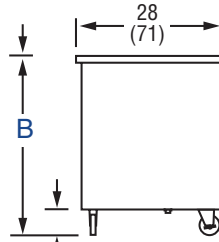


Top View



Power Supply Cord/Plug

Operator Side View



Clearance between base and floor 5 1/4 (13.3)

End View

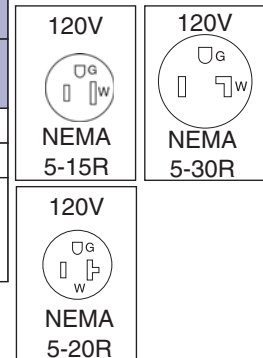
Item No.	(A) Length	(B) Height
37020	28 (71)	34 (86)
36120		30 (76)
36220		27 (69)
37021	46 (117)	34 (86)
36121		30 (76)
36221		27 (69)
37022	60 (152.4)	34 (86)
36122		30 (76)
36222		27 (69)
37023	74 (188)	34 (86)
36123		30 (76)
36223		27 (69)
98711	88 (224)	34 (86)

Note: For breath guard and accessory dimensions, see the breath guard and accessory spec sheets on vollrath.com

ELECTRICAL SPECIFICATIONS

Base Unit Voltage	Lighting/Heating Choice	Length In (cm)									
		28 (71)		46 (117)		60 (117)		74 (188)		88 (224)	
		Total Amps	NEMA Plug	Total Amps	Plug	Total Amps	Plug	Total Amps	Plug	Total Amps	Plug
120	Heat Strip	4.7	5-15P	5.1	5-15P	9.2	5-15P	12.6	5-15P	13.9	5-20P
	Heat Strip w/ Lights	5.7		7.1		11.2		15.6	5-20P	16.9	5-30P
	Fluorescent	0.2		0.3		0.6		0.6	5-15P	0.6	5-15P
	Incandescent	1		2		2		2.5		3	
	Infrared	4.2		6.3		8.4		10.5		12.5	

Receptacles



Note: Electrical specifications apply to utility stations that include a lighting option or heat strips. Base units do not have electrical power.

Note: Standard base with stainless steel countertop has a maximum load capacity of 250 LB (113.4 KG). Contact Vollrath for construction options to support heavier loads.



Outperform every day.™

www.vollrath.com

The Vollrath Company, L.L.C.

1236 North 18th Street
Sheboygan, WI 53081-3201 U.S.A.
Main Tel: 800.624.2051 or 920.457.4851
Main Fax: 800.752.5620 or 920.459.6573
Customer Service: 800.628.0830

Technical Services
techservicereps@vollrathco.com
Induction Products: 800.825.6036
Countertop Warming Products:
800.354.1970
All Other Products: 800.628.0832

Rectangular Bases with Integrated Equipment (stainless tops only)



Hot Food Bases with Touch-Temp® Panel



Bain Marie Hot Station



NSF7 Cold Stations



Cold Food Stations



Hot/Cold Food Stations



Beverage Counters



Frost Top Stations



Utility Stations



Milk Stations



Tray and Flatware Cart



Universal Corner Station



Entrée Cart



Cashier Station

ITEM	DESCRIPTION	DIMENSIONS L X W: IN (CM)	NSF LISTED	UL LISTED	ITEM # H:34" (86 CM)	ITEM # H:30" (76 CM)	ITEM # H:27" (69 CM)
Hot food base with touch-temp panel	3-well	46 x 28 (117 x 71)	NSF	UL	37030	36130	36230
Hot food base with touch-temp panel	4-well	60 x 28 (152 x 71)	NSF	UL	37040	36140	36240
Hot food base with touch-temp panel	5-well	74 x 28 (188 x 71)	NSF	UL	37050	36150	36250
Hot food base with touch-temp panel	6-well	88 x 28 (224 x 71)	NSF	UL	98888	—	—
Bain marie hot station	3-well	46 x 28 (117 x 71)	—	UL	37047	36447	36347
Bain marie hot station	4-well	60 x 28 (152 x 71)	—	UL	37057	36457	36357
Bain marie hot station	5-well	74 x 28 (188 x 71)	—	UL	37067	36468	36367
Bain marie hot station	6-well	88 x 28 (224 x 71)	—	UL	37077	3647700	36377
Cold station	NSF7 refrigerated	46 x 28 (117 x 71)	NSF	UL	37046	36146	—
Cold station	NSF7 refrigerated	60 x 28 (152 x 71)	NSF	UL	37066	36166	—
Cold station	NSF7 refrigerated	74 x 28 (188 x 71)	NSF	UL	37076	36176	—
Cold station	NSF7 refrigerated	88 x 28 (224 x 71)	NSF	UL	98710	—	—
Cold station	Refrigerated	46 x 28 (117 x 71)	—	UL	37045	36145	36245
Cold station	Refrigerated	60 x 28 (152 x 71)	—	UL	37065	36165	36265
Cold station	Refrigerated	74 x 28 (188 x 71)	—	UL	37075	36175	36275
Cold station	Refrigerated	88 x 28 (224 x 71)	—	UL	98708	—	—
Cold station	Non-refrigerated	46 x 28 (117 x 71)	NSF	—	37043	36143	36243
Cold station	Non-refrigerated	60 x 28 (152 x 71)	NSF	—	37060	36160	36260
Cold station	Non-refrigerated	74 x 28 (188 x 71)	NSF	—	37070	36170	36270
Cold station	Non-refrigerated	88 x 28 (224 x 71)	NSF	—	98707	—	—
Hot/cold food station	Refrigerated	74 x 28 (188 x 71)	NSF	UL	37095	36195	36295
Hot/cold food station	Non-refrigerated	74 x 28 (188 x 71)	NSF	UL	37091	36191	36291
Utility station	Utility station	28 x 28 (71 x 71)	NSF	UL	37020	36120	36220
Utility station	Utility station	46 x 28 (117 x 71)	NSF	UL	37021	36121	36221
Utility station	Utility station	60 x 28 (152 x 71)	NSF	UL	37022	36122	36222
Utility station	Utility station	74 x 28 (188 x 71)	NSF	UL	37023	36123	36223
Utility station	Utility station	88 x 28 (224 x 71)	NSF	UL	98711	—	—
Beverage counter	Beverage counter	46 x 28 (117 x 71)	NSF	—	37025	36125	—
Beverage counter	Beverage counter	60 x 28 (152 x 71)	NSF	—	37026	36126	—
Beverage counter	Beverage counter	74 x 28 (188 x 71)	NSF	—	37027	36127	—
Universal corner station	Corner station	28 x 28 (71 x 71)	NSF	UL	37085	36185	36285
Entrée cart	Entrée cart	46 x 28 (117 x 71)	NSF	—	37080	—	—
Frost top station	Frost top	46 x 28 (117 x 71)	—	UL	37012	36112	36212
Frost top station	Frost top	60 x 28 (152 x 71)	—	UL	37013	36113	36213
Frost top station	Frost top	74 x 28 (188 x 71)	—	UL	37014	36114	36214
Frost top station	Frost top	88 x 28 (224 x 71)	—	UL	36115	36117	36116
Cashier station	Cashier station	28 x 28 (71 x 71)	NSF	UL	37015	—	—
Tray and flatware cart	Tray and flatware cart	38 x 22½ (96.5 x 57.2)	NSF	—	99305	—	—
Milk station	Milk station	60 x 28 (152 x 71)	NSF	UL	37001	—	—
Milk station	Milk station	74 x 28 (188 x 71)	NSF	UL	37002	—	—



Outperform every day.™

Project:

Item Number:

Quantity:

SIGNATURE SERVER® COUNTER ACCESSORIES AND OPTIONS



Signature Server® 4-Well Hot Food Station with optional: Access® Buffet Breath Guard with lights, storage, end shelf and plate rests.

Signature Server® Counter Accessories And Options

The Vollrath Company, L.L.C.

See Accessories and Options on the following pages for selection information.

Signature Server®		Counter Accessories and Options										
		Counter Accessories for Signature Server®						Options for Signature Server®				
		Tray Slide		Plate Rest	Cutting Board		End Shelf	Storage Module*	Bag in Box	Cash Drawer	False Bottom	Stationary Leg
V-Rib	Tubular	Wood	Poly									
Hot Food Stations	3 Well	X	X	X	X	X	X	X	X	-	-	X
	4 Well	X	X	X	X	X	X	X	X	-	-	X
	5 Well	X	X	X	X	X	X	X	X	-	-	X
	6 Well	X	X	X	X	X	X	X	X	-	-	X
Hot/Cold Food Stations	74"	X	X	X	X	X	X	*	X	-	X	X
Cold Food Stations	46"	X	X	X	X	X	X	X	X	-	X	X
	60"	X	X	X	X	X	X	X	X	-	X	X
	74"	X	X	X	X	X	X	X	X	-	X	X
	88"	X	X	X	X	X	X	X	X	-	X	X
NSF7 Cold Food Stations	46"	X	X	X	X	X	X	*	X	-	X	X
	60"	X	X	X	X	X	X	*	X	-	X	X
	74"	X	X	X	X	X	X	*	X	-	X	X
	88"	X	X	X	X	X	X	*	X	-	X	X
Frost Top Stations	46"	X	X	X	X	X	X	*	X	-	-	X
	60"	X	X	X	X	X	X	*	X	-	-	X
	74"	X	X	X	X	X	X	*	X	-	-	X
	88"	X	X	X	X	X	X	*	X	-	-	X
Bain Marie Stations	46"	X	X	X	X	X	X	X	X	-	-	X
	60"	X	X	X	X	X	X	X	X	-	-	X
	74"	X	X	X	X	X	X	X	X	-	-	X
	88"	X	X	X	X	X	X	X	X	-	-	X
Beverage Counters	46"	X	X	X	X	X	X	X	X	-	-	X
	60"	X	X	X	X	X	X	X	X	-	-	X
	74"	X	X	X	X	X	X	X	X	-	-	X
Milk Stations	60"	X	X	X	X	X	X	-	-	-	-	X
	74"	X	X	X	X	X	X	-	-	-	-	X
Utility Stations	28"	X	X	X	X	X	X	-	X	-	-	X
	46"	X	X	X	X	X	X	X	X	-	-	X
	60"	X	X	X	X	X	X	X	X	-	-	X
	74"	X	X	X	X	X	X	X	X	-	-	X
	88"	X	X	X	X	X	X	X	X	-	-	X
Cashier Station		X	X	X	X	X	-	X	-	X	-	X
Entree Cart		X	X	X	X	X	-	-	X	-	-	X
Corner Stations		X	X	X	-	-	X	X	X	-	-	X
Tray and Flatware Cart		-	-	-	-	-	-	-	-	-	-	X

* Non-standard option. Contact Vollrath for availability. Not available on Signature Server Curved Bases.



Outperform every day.™

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Jefferson Middle School

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Customer Service: 800.628.0830
Canada Customer Service: 800.695.8560

Orness Design Group

Technical Services
techservicereps@vollrathco.com
Induction Products: 800.825.6036
Countertop Warming Products: 800.354.1970
All Other Products: 800.628.0832

SIGNATURE SERVER® COUNTER ACCESSORIES AND OPTIONS

COUNTER ACCESSORIES FOR SIGNATURE SERVER®

Tray Slide – V-Rib



- 400 Series stainless steel with 4 inverted “V” ribs.
- Bracket provides 4¾”(12.1 cm) tray slide height adjustment.
- Turned down flange is 12” (30.5 cm) wide with 1” (2.5 cm).
- Locking brackets on each end to join stations together.
- Adds 4” (10.2 cm) to width of unit in folded position.
- Removable for easy transport.

Width / Gauge / Item Number						
28" (71 cm)	46" (117 cm)	60" (152 cm)	74" (188 cm)	88" (224 cm)	Corner	
					Inside	Outside
18 Gauge						
37521	37522	37523	37524	98831	37519	37520
14 Gauge						
N/A	270280114-2	270290114-2	270300114-2	270310114-2	N/A	N/A

Tray Slide – Tubular



- 300 Series stainless steel.
- Bracket provides 4¾”(12.1 cm) tray slide height adjustment.
- Turned down flange is 12” (30.5 cm) wide with 1” (2.5 cm).
- Locking brackets on each end to join stations together.
- Adds 4” (10.2 cm) to width of unit in folded position.
- Removable for easy transport.

Width / Gauge / Item Number						
28" (71 cm)	46" (117 cm)	60" (152 cm)	74" (188 cm)	88" (224 cm)	Corner	
					Inside	Outside
18 Gauge						
9882001	9882003	9882004	9882005	9882006	9882007	9882008

Plate Rest



- 18-gauge 400 series stainless steel with fold-down style mounting bracket.
- Turned down flange is 7” (17.8 cm) wide with 1” (2.5 cm).
- Locking brackets on each end to join stations together.
- Adds 4” (10.2 cm) to width of unit in folded position.
- Removable without tools for easy transport.
- NSF

Width / Item Number						
28" (71 cm)	46" (117 cm)	60" (152 cm)	74" (188 cm)	88" (224 cm)	Corner	
					Inside	Outside
37511	37512	37513	37514	98829	37509	37510

Cutting Board – Wood



- Maple construction with fold-down style mounting brackets.
- Turned down flange is 8” (20.3 cm) wide with 1” (2.5 cm).
- Adds 4” (10.2 cm) to width of unit in folded position.

Width / Item Number					
28" (71 cm)	46" (117 cm)	60" (152 cm)	74" (188 cm)	88" (224 cm)	Corner
N/A	37551	37552	37553	98851	N/A

Cutting Board – Poly



- Polyethylene construction with fold-down style mounting brackets.
- Turned down flange is 8” (20.3 cm) wide with 1” (2.5 cm).
- Adds 4” (10.2 cm) to width of unit in folded position.

Width / Item Number					
28" (71 cm)	46" (117 cm)	60" (152 cm)	74" (188 cm)	88" (224 cm)	Corner
N/A	37561-2	37562	37563	98852	N/A

End Shelf



- 400 Series stainless steel with fold-down style mounting bracket.
- 18" x 28" (46 x 71 cm). 40 lb. (18.2 kg) capacity.
- Adds 4½”(11.4 cm) to length of unit in folded position.
- Must be factory installed.
- Not recommended for attachment to entree cart, cashier station or 28" utility station.
- NSF

Item Number
37570

SIGNATURE SERVER® COUNTER ACCESSORIES AND OPTIONS

OPTIONS FOR SIGNATURE SERVER®

Storage Module



- 400 Series stainless steel and formed to allow flange to fit over exterior surface of server base.
- Doors are stainless steel, clad with black laminate or optional finish.
- With doors includes key lock.
- Opening height of module is 16½" (42 cm).
- Depth is 25½" (64.8 cm).
- Not available on Signature Server® curved bases.
- NSF.

Fits	Width In (CM)	With Doors	Without Door
3-Well Hot, 60" Cold, 46" Beverage	24 (61)	36930	36931
4-Well Hot, 46" Utility, 74" Cold, 60" Beverage	36 (91.4)	36936	36937
5-Well Hot, 60" Utility, 74" Beverage	50 (127)	36938	36939
6-Well Hot, 74" Utility	64 (162.6)	36940	36941
88" Utility	64 (162.6)	36938-2	36939-2

Bag in Box



- Available in stainless steel or galvanized shelf options.
- Stainless steel door frame.
- Open storage without doors provides easy access.
- Access Concept Configurator™ at www.vollrath.com for a full list of accessories, including intermediate shelves.

Material	28" (71 cm)	46" (117 cm)	60" (152 cm)	74" (188 cm)	88" (224 cm)
Stainless Steel	N/A	36981	36983	36985	98790

Cash Drawer



Cash Drawer	
Drawer - steel, black powder coat finish (15 ⁷ / ₁₆ x 16 ³ / ₄ x 4 ¹ / ₂)	36945
Duplex Receptacle, 120V AC, 10A	36946

False Bottoms



- 18 gauge 400 Series stainless steel.
- Helps maintain ice longer.
- Sits 1" (2.5 cm) above well bottom.
- Perforated for easy draining.

Hot/Cold Food Stations	Cold Food Stations			
	46" (117 cm)	60" (152 cm)	74" (188 cm)	88" (224 cm)
36913	36914	36915	36916	98855-2

Stationary Legs



- Constructed of plated metal.
- Threaded insert with height adjustment of 1" (2.54 cm).

Leg	
Adjustable 4"- 5"	36921
4" Leg	2897451-2
6" Leg	2897452-2

Due to continued product improvement, please consult www.vollrath.com for current product specifications.

WARRANTY: All models shown come with Vollrath's standard warranty against defects in materials and workmanship. For full warranty details, please refer to www.Vollrath.com.

Approvals	Date

SIGNATURE SERVER® COUNTER ACCESSORIES AND OPTIONS

NOTES:



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Induction Products: 800.825.6036
Countertop Warming Products: 800.354.1970
All Other Products: 800.628.0832



Jefferson Middle School

11/29/2023

ITEM# 81 - CARD READERS & P.O.S. SYSTEM (2 LT REQ'D)

NIKEC

Furnished and installed by District.

<By Other>



Jefferson Middle School

11/29/2023

ITEM# 82 - AIR CURTAIN (2 EA REQ'D)

Mars Air Systems LPN242-1UA-OB

(or District Approved equal)

LoPro Series 2 air curtain for 42"W door, sanitation certified to ANSI/NSF 37 standards, unheated, galvanized steel cabinet with Obsidian Black powder coat finish, (1) 1/6 HP motor, 115v/60/1-ph, cETLus

ACCESSORIES

Mfr	Qty	Model	Spec
Mars Air Systems	2	99-014	Door limit switch, plunger/roller type for indoor applications, single pole double throw, 1 HP max, 250v, 20.0 amps, NEMA 2 (remote mounted)

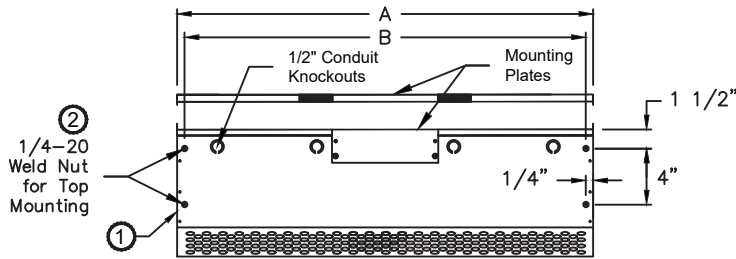
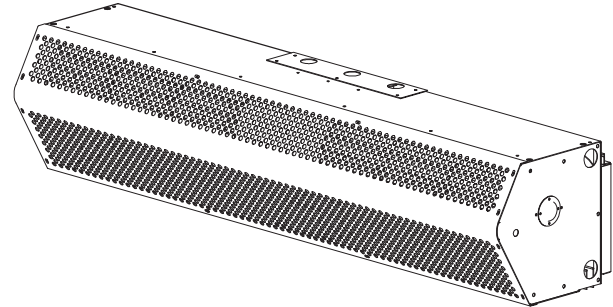


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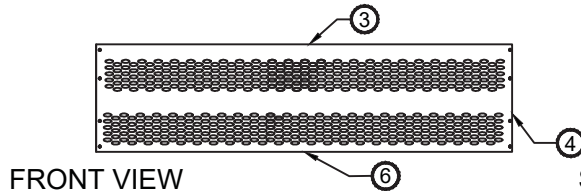
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TITLE			
COMMENTS		DATE 3/31/15	PAGE
		REV. NO	
MODEL NO. LP2 Series	DRAWING NO LPN2U-F	DRAWN BY FRC	CHECKED BY
		FILE NAME	

Unheated Drawing

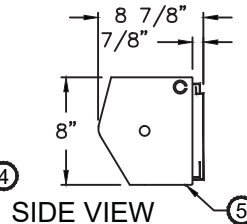
LPN2
 (LoPro2 Sanitation)
 Series



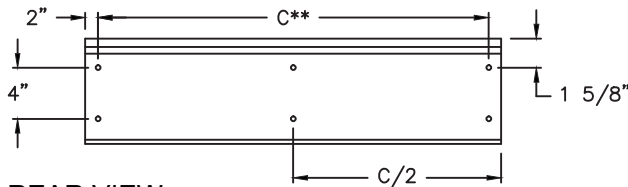
TOP VIEW



FRONT VIEW



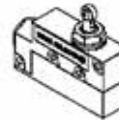
SIDE VIEW



REAR VIEW



⑧ Recommended Accessories



Door Limit Switches



Brackets

*- Use corresponding letters in "Electrical Data" columns to complete the model numbers.

**- "C" only applies to single units up to 72" units. Dims are not applicable for units 84" and longer.

MODEL NUMBER	OVERALL LENGTH A (in)	MOUNTING LENGTH B (in)	REAR MOUNTING CENTER C (in)
LPN225-1U*-OB	25	24 1/2	21
LPN236-1U*-OB	36	35 1/2	32
LPN242-1U*-OB	42	41 1/2	38
LPN248-1U*-OB	48	47 1/2	44
LPN260-1U*-OB	60	59 1/2	56
LPN272-1U*-OB	72	71 1/2	68
LPN284-2U*-OB	86	85 1/2	N/A
LPN296-2U*-OB	98	97 1/2	N/A
LPN2108-2U*-OB	110	109 1/2	N/A
LPN2120-2U*-OB	122	121 1/2	N/A
LPN2144-2U*-OB	146	145 1/2	N/A

Notes:

- This product is designed to meet the National Electric Code (NEC), ETL (UL 507 and CSA 22.2) and ETL Sanitation (NSF/ANSI 37).
- 1/4" mounting holes provided for wall mounting (4) and overhead mounting (4), (2) on each end.
- All units have a self contained one piece cabinet up to 72", fire retardant and corrosion proof paint lock metal double protected with baked on Obsidian Black color, rust preventative electrostatic polyurethane powder coating.
- Cabinet has sufficient strength for fastening to wall on both ends without intermediate support. LPN225 comes with Aluminum washable filter standard.
- Unit is to be installed such that air flow is unobstructed. Air discharge nozzle containing an adjustable air directional vane with 40° sweep front to back.
- Units greater than 72" are double units joined with a 2" mounting bracket located in the center and must be center supported, field installed.
- Circuit protection as per NEC by others.
- Optional door limit switch and mounting brackets are field installed and/or wired by others. The door limit switch is to be mounted such that the air curtain turns on as door begins to open. To prevent unit damage, the mounting brackets must be installed such that the bottom of the air curtain is not below the door header.



LPN2 (LoPro2 Sanitation) Series

Unheated

Model Lengths 25" – 144"

atmosphere is everything

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Unheated Data Sheet

Applications: Insect Control (up to 7')

LPN2 (Low Profile Sanitation 2) Series 2	Mechanical Data						Lab Data	
Model Number	Nozzle Length (in)	Length (in)	Depth (in)	Height (in)	Motor (hp)	Weight (lbs)	Max Velocity (fpm)	Max Volume (cfm)
LPN225-1U*-OB	25	25	9	8	1/6	20	1800	625
LPN236-1U*-OB	36	36	9	8	1/6	32	1800	900
LPN242-1U*-OB	42	42	9	8	1/6	35	1800	1050
LPN248-1U*-OB	48	48	9	8	1/6	40	1800	1200
LPN260-1U*-OB	60	60	9	8	1/6	48	1800	1500
LPN272-1U*-OB	72	72	9	8	1/6	58	1800	1800
LPN284-2U*-OB	86	86	9	8	Two 1/6	75	1800	2100
LPN296-2U*-OB	98	98	9	8	Two 1/6	83	1800	2400
LPN2108-2U*-OB	110	110	9	8	Two 1/6	92	1800	2700
LPN2120-2U*-OB	122	122	9	8	Two 1/6	102	1800	3000
LPN2144-2U*-OB	146	146	9	8	Two 1/6	122	1800	3600

* - Use corresponding letters in "Electrical Data" columns to complete the model numbers.

Note: ETL Sanitation models available in 60 Hz only.

Features:

- ❖ 1/6 HP continuous duty motors
- ❖ Sleek self-contained one piece heavy gauge corrosion proof paint lock metal design
- ❖ Very low profile design, 8" (H) x 8 7/8" (D)
- ❖ ETL Certified to conform to ANSI/NSF 37 Standards for Service Windows up to 4' above the counter top (filters required) and for Customer Entrances up to 7'
- ❖ ETL Certified to conform to UL 507 (US) and CSA 22.2 (Canada) Standards (Indoor/Outdoor Use)
- ❖ Wall mounting bracket removable for easy installation
- ❖ Top mounting well nuts provided (1/4")
- ❖ Cabinet has sufficient strength for fastening to wall on both ends without intermediate support up to 72". (Models 84" to 144" require intermediate support in the center.)
- ❖ Adjustable air directional vanes with 40° sweep front to back
- ❖ Standard color is Obsidian Black
- ❖ Rust preventative electrostatic polyurethane powder coating
- ❖ 5 year parts warranty
- ❖ Freight Included (FOB Continental USA)
- ❖ Proudly Made in the USA

Electrical Data (FLA)	Unit Voltage (Voltage Code)	
	115v/1Ø (A)	208/230v/1Ø (D)
LPN225-1U*-OB	2.4	1.2
LPN236-1U*-OB	2.4	1.2
LPN242-1U*-OB	2.4	1.2
LPN248-1U*-OB	2.4	1.2
LPN260-1U*-OB	2.6	1.4
LPN272-1U*-OB	2.6	1.4
LPN284-2U*-OB	4.8	2.4
LPN296-2U*-OB	4.8	2.4
LPN2108-2U*-OB	5.0	2.6
LPN2120-2U*-OB	5.2	2.8
LPN2144-2U*-OB	5.2	2.8

* - Use corresponding letters in "Electrical Data" columns to complete the model numbers.

Note: For Ampacity Multiply FLA X 1.25

Options and Accessories: (see Accessories Brochure)

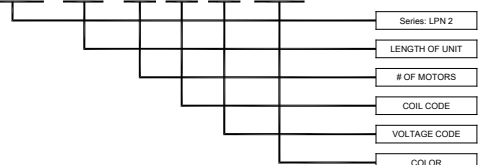
- ❖ Door Limit Switches
- ❖ Wall and Overhead Bracket
- ❖ Custom colors and finishes (304SS, 316SS)

Sound Levels: (measured at 10' in an open field)

(25" & 36") - 49 dBA, (42") - 50 dBA, (48") - 52 dBA, (60"-96") - 53 dBA & (108"-144") - 54dBA

EXAMPLE

LPN2 72 - 1 U A -OB



Intertek Intertek

NOTE: MARS AIR SYSTEMS, LLC reserves the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions or replacements for previously purchased equipment.

Door Limit Switches



NEMA1 to NEMA9 Models

atmosphere is everything

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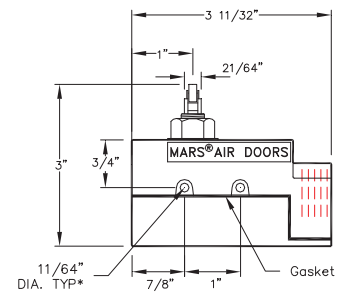
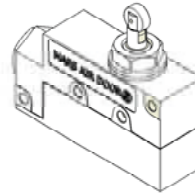
Door Limit Switches

Door Switch Number	Description	Voltage	Phase	HP	Amperage	Poles	NEMA Rating
99-013	Standard Roller Type	250V	1	1	20	1	NEMA 1
99-014	Standard Combination Plunger/Roller Type	250V	1	1	20	1	NEMA 1
99-270	Washdown Roller Type	250V	1	1	20	1	NEMA 4X
99-016	Explosion Resistant 1 Roller Type	250V	1	3/4	15	1	NEMA 7 & 9

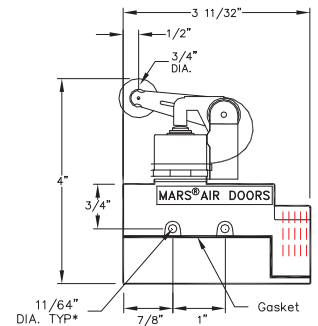
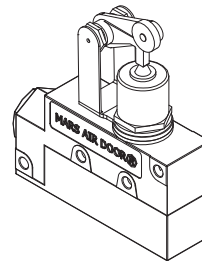
Note: DO NOT GROUND the COM terminal. This is the common terminal and not ground or neutral. Please see the wiring instructions for the switches.

Features:

- ❖ UR (UL Recognized) and rated for NEMA 1 (field installed by others)
- ❖ Combination plunger/Roller (99-014) & Roller Type (99-013) door limit switches available to suit various applications
- ❖ Only available for 115V, 208V or 230V, 1 ϕ power (If any of the ratings are exceeded, an optional motor control panel must be used)
- ❖ Maximum ratings of 1 HP, 250V and 20A. See model specs
- ❖ Single pole terminal (1P) normally closed (NC) and normally opened (NO) contact. Only the NC terminals are used and provided with terminal screws
- ❖ Used when automatic control of an air curtain(s) is required
- ❖ Turns the air curtain on when the door opens and off when the door closes
- ❖ 1 year parts warranty
- ❖ Requires less than 1/8" of travel or 2 lbs. of force on the switch plunger to energize and de-energize the air curtain
- ❖ 1/2" FPT conduit connection (field wired by others)
- ❖ (2) 11/64" mounting holes provided*
*Do not use a fastener larger than a #6 sheet metal screw or a #8 Machine screw to mount this door limit switch. Forcing larger screws through the mounting holes may destroy the switch and void the warranty.



99-014 – Combination Plunger/Roller Type

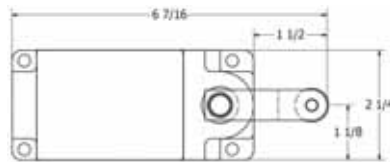
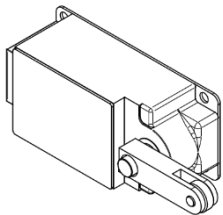


99-013 - Roller Type

Options and Accessories: (see Accessories Brochure)

Washdown

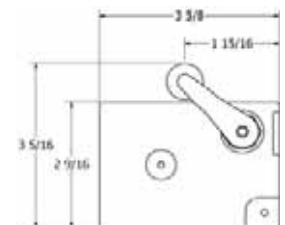
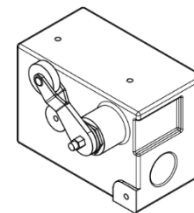
- ❖ UR (UL Recognized) and rated for NEMA4X/IP55 (field installed by others)
- ❖ Roller Type 99-270 are rated for 250V, 20A, 1 HP



99-270 – Washdown Roller Type

Explosion Resistant

- ❖ UR (UL Recognized) and rated for NEMA 7 & 9 (Class 1, Division 1, Group D) (field installed by others)
- ❖ Roller Types 99-016 are rated for 250V, 15A, 3/4 HP



99-016 – Explosion Resistant Roller Type

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