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ADDENDUM NO. 2 DATE: 09/26/24

PROJECT:
Child Nutrition Kitchen
726 South Pine St.
Madera, California 93637

OWNER:
Madera Unified School District
1902 Howard Dr.
Madera, California 93637

ARCHITECT:
DARDEN ARCHITECTS, INC.
Attention:
6790 N. West Avenue
Fresno, California 93711
T. (559) 448-8051
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DARDEN PROJECT NO. 2310
City of Madera Application #19876

It will be the responsibility of the General Contractor to submit the information contained in this addendum to all its subcontractors and suppliers. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

The following additions, deletions, and revisions to the SHEETS and Project Manual are hereby made and do become a part of these Contract Documents.

ARCHITECTURE
PLANNING
INTERIORS

Robert L. Petithomme AIA LEED® AP
Antonio J. Avila AIA LEED® AP BD+C
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Grant E. Dodson AIA
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Michael J. Nelson
Sean P. Mendoza AIA
William Brandle AIA

INDEX OF ADDENDA TRANSMITTED HEREWITH

SPECS:

CHANGES TO SPECS:

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SHEETS:

CHANGES TO SHEETS:

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PLUMBING.....AD2-P01 THRU P02
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SPECIFICATIONS SECTION 01 64 00.....(Pages 1 - 5)
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SHEETS:

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MECHANICAL.....AD2-MX01 thru AD2-MX04
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PROJECT MANUAL:

SPECIFICATIONS:

CHANGES TO SPECIFICATIONS:

AD2-SP01 Refer to Specification Section 01 33 00, SUBMITTAL PROCEDURES:

1. Replace specification with attached revised specification marked AD2-SPX01

AD2-SP02 Refer to Specification Section 01 64 00, OWNER-FURNISHED ITEMS:

1. Replace specification with attached revised specification marked AD2-SPX02

AD2-SP03 Refer to Specification Section 06 41 23, MODULAR CASEWORK:

1. Refer to section 2.1 Manufacturers, Article 1 "Specified Manufacturers"
   i. Delete Item g. Translucent panels – Not used in revised casework design
2. Refer to section 2.3 FABRICATION
   i. Delete paragraph G Translucent Panels – Not used in revised casework design

AD2-SP04 Refer to Specification Section 07 72 00, ROOF ACCESSORIES:

1. Replace specification with attached revised specification marked AD2-SPX04

AD2-SP05 Refer to Specification Section 08 41 13, FOLDING DOOR SYSTEM:

1. Replace specification with attached revised specification marked AD2-SPX05

AD2-SP06 Refer to Specification Section 09 30 00, TILE:

1. Replace specification with attached revised specification marked AD2-SPX06

AD2-SP07 Refer to Specification Section 10 44 00, FIRE PROTECTION SPECIALTIES:

1. Replace specification with attached revised specification marked AD2-SPX07

AD2-SP08 Refer to Specification Section 11 40 00, FOOD SERVICE EQUIPMENT:

1. Replace specification with attached revised specification marked AD2-SPX08

AD2-SP09 Refer to Specification Section APPENDIX B, INTERIOR COLOR SCHEDULE:

1. Under Modular Casework, delete Translucent panel from schedule. Not used for modular casework in revised design
2. Under Modular Casework, Plastic laminate, Change Countertop/Splash ref # to 1573-60 and description to "Frosty White"
3. Delete Item "Millwork" from schedule. No longer used in revised casework design

SHEETS:

CHANGES TO SHEETS:

ARCHITECTURAL:

AD2-A01 Refer to Sheet G000, COVER SHEET:

4. Replace sheet with attached exhibit AD2-AX01
   - Fire Alarms & Fire Sprinklers added to the Deferred Item list.
   - Sheet "X/A410 Hardware" removed from sheet list.

AD2-A02 Refer to Sheet A100, DEMOLITION FLOOR PLAN:

1. Replace sheet with attached exhibit AD2-AX02
   - Keynote F12 added to demolition notes.
   - F12 tag added to plan, room 119.

AD2-A03 Refer to Sheet A101, FLOOR PLAN:

1. Replace sheet with attached exhibit AD2-AX03
   - CMU & Concrete wall symbols removed from legend.
   - Fire rating line types removed from floor plan legend.
   - Notes 1 & 2 wall assembly type tag revised.
   - Removed "Option 1" from drawing title.

AD2-A04 Refer to Sheet A/A102, KITCHEN EQUIPMENT PLAN:

1. Replace sheet with attached exhibit AD2-AX04
   - CMU & Concrete wall symbols removed from legend.
   - Fire rating line types removed from floor plan legend.
   - Notes 1 & 2 wall assembly type tag revised.
   - Removed "Option 1" from drawing title.
   - Wall type tags added to plan.
   - FEC changed to WB-1.
   - Equipment #2 & #3 changed to OFVI.

AD2-A05 Refer to Sheet A/A103, ENLARGED OFFICE PLANS:

1. Replace sheet with attached exhibit AD2-AX05
    - CMU & Concrete wall symbols removed from legend.
    - Fire rating line types removed from floor plan legend.
    - Notes 1 & 2 wall assembly type tag revised.
    - Wall type tags added to plans.

AD2-A06 Refer to Sheet A/A200, DEMOLITION REFLECTED CEILING PLAN:

1. Replace sheet with attached exhibit AD2-AX06
    - Keynote C06 added to Demolition Notes.
    - C06 tag added to plan.
    - Existing gypsum board ceiling tagged.

AD2-A07 Refer to Sheet A/A201, REFLECTED CEILING PLAN:

1. Replace sheet with attached exhibit AD2-AX07
    - Fire rating line types removed from floor plan legend.
    - Mechanical duct second floor penetration note and locations added.
    - Existing gypsum board ceiling tagged.

AD2-A08 Refer to Sheet A/A300, DEMOLITION ROOF PLAN:

1. Replace sheet with attached exhibit AD2-AX08
    - Added portions of roof to be demolished.
    - Changed note R1 in Demolition Notes.
    - Added note R2 & R3 to Demolition Notes.

AD2-A09 Refer to Sheet A/A301, ROOF PLAN:

1. Replace sheet with attached exhibit AD2-AX09
    - Added extended roof platform to plan.
    - Added reference to Platform detail G9/X/A501.

AD2-A10 Refer to Sheet A/A501, SECTIONS:

1. Replace sheet with attached exhibit AD2-AX10
    - Detail reference A7/X/A603 added to N11/X/A501.

AD2-A11 Refer to Sheet A/A601, INTERIOR ELEVATIONS:

1. Replace sheet with attached exhibit AD2-AX11
    - FEC & FEBC symbols removed from Interior.
    - Revised 102 Open Office South.
    - Revised 104 Break Room North, added callout for lower microwave cabinet.

AD2-A12 Refer to Sheet A/A602, INTERIOR ELEVATIONS:

1. Replace sheet with attached exhibit AD2-AX12
    - Bracket and Extinguisher shown on 106 – EAST.
    - FEC & FEBC symbols removed from Interior.
    - Revised base cabinets in 119 Open Office.

AD2-A13 Refer to Sheet A/A801, INTERIOR DESIGN – ACCENT PAINT PLAN:

1. Replace sheet with attached exhibit AD2-AX13
    - Revised Accent Paint Plan.

AD2-A14 Refer to Sheet X/A101, WALL ASSEMBLIES:

1. Replace sheet with attached exhibit AD2-AX14
    - Special wall assemblies removed.
    - Exterior & Interior wall assemblies revised.

AD2-A15 Refer to Sheet X/A301, MODULAR CASEWORK SCHEDULE AND DETAILS:

1. Replace sheet with attached exhibit AD2-AX15
    - Revisions to M1 Modular Casework Schedule.

AD2-A16 Refer to Sheet X/A311, CUSTOM CASEWORK DETAILS:

1. Replace sheet with attached exhibit AD2-AX16
    - Added details P18, A1 & A5.

AD2-A17 Refer to Sheet X/A401, EXTERIOR DETAILS:

1. Replace sheet with attached exhibit AD2-AX17
    - Revised door thickness of door 119 a.
    - Revised Head/Jamb/Threshold of door 106 a.
    - Revised comments column of Opening Schedule – Doors.
    - Revised General Notes and Opening Schedule Comments.

AD2-A18 Refer to Sheet X/A501, EXTERIOR DETAILS:

1. Replace sheet with attached exhibit AD2-AX18
    - Revisions to details M14, G14 & A14.
    - Addition of Details G9 & A6.

AD2-A19 Refer to Sheet X/A601, INTERIOR DETAILS:

1. Replace sheet with attached exhibit AD2-AX19
    - Vinyl Covered Tackboard Detail J7 removed.
    - Fire Extinguisher Cabinets Detail A1 removed.

AD2-A20 Refer to Sheet X/A603, INTERIOR DETAILS:

1. Replace sheet with attached exhibit AD2-AX20
    - Cubicle Curtain Track @ Ceiling Detail E11 removed.
    - Fire Extinguisher Cabinets Detail A1 removed.
    - Detail A7, added "See Mechanical Drawings" to note.

AD2-A21 Refer to Sheet X/A604, KITCHEN EQUIPMENT DETAILS:

1. Replace sheet with attached exhibit AD2-AX21
    - Details J14, E14 and A14 title revised to "2 Compartment Sink".
    - Wall Shelf Attachment Detail L11 removed.

MECHANICAL:

AD2-M01 Refer to Sheet A/M302, ENLARGED PROPOSED MECHANICAL FLOOR PLAN:

1. Replace sheet with attached exhibit AD2-MX01
    - Revision of Keynotes & General Notes.

AD2-M02 Refer to Sheet A/M310, PARTIAL MECHANICAL SECOND FLOOR PLAN:

1. Replace sheet with attached exhibit AD2-MX02
    - Revision of Keynotes & General Notes.

AD2-M03 Refer to Sheet A/M500, MECHANICAL PARTIAL ROOF PLAN:

1. Replace sheet with attached exhibit AD2-MX03
    - Addition of notes 7, 8 & 9.
    - Revised Notes 1 & 5.

AD2-M04 Refer to Sheet X/M800, MECHANICAL DETAILS:

1. Replace sheet with attached exhibit AD2-MX04
    - Addition of details N4, J4 & A7
    - Revised detail E14

PLUMBING:

AD2-P01 Refer to Sheet X/P001, ENLARGED PROPOSED KITCHEN PLUMBING PLAN:

1. Replace sheet with attached exhibit AD2-PX01
    - Revised description of TP-1.

AD2-P02 Refer to Sheet A/P310, ENLARGED PROPOSED KITCHEN PLUMBING PLAN:

1. Replace sheet with attached exhibit AD2-PX02
    - Revised route of sewer line.

ELECTRICAL:

AD2-E01 Refer to Sheet X/E101, Electrical Systems-Symbol Legend, Abbreviations, and Notes:

1. Replace sheet with attached exhibit AD2-EX01
    - Revised Utility Company Service Notes.

AD2-E02 Refer to Sheet X/E104, Electrical Systems-Electrical Single Line Diagram:

1. Replace sheet with attached exhibit AD2-EX02
    - Added Owner Provided Contractor Installed Electrical Distribution Equipment Notes.

AD2-E03 Refer to Sheet X/E106, Electrical Systems-Panel Schedules:

1. Replace sheet with attached exhibit AD2-EX03
    - Revision to panel M1 and R1.

AD2-E04 Refer to Sheet X/E107, Electrical Systems-Typical Electrical Details:

1. Replace sheet with attached exhibit AD2-EX04
    - Revision to Detail 3, 5/8 inch diameter changed to 3/4 inch diameter.

AD2-E05 Refer to Sheet X/E114, Electrical Systems-Power and Signal Floor Plan – First Floor:

1. Replace sheet with attached exhibit AD2-EX05
    - Addition of 2 – "M1-14 / TP-1" and 2 "TV RECP. UP HIGH / R1-37".

END OF ADDENDUM NO. 2

Prebid Request for Information Log

Project: 2310 Madera USD Child Nutrition Kitchen

Item #	Trade	Drawing / Spec	Questions	From	Date	Addenda	Responder	Response to Bidder	Date
001		GENERAL	The prequalification package indicates that all submissions need to be mailed to the following: Madera Unified School District, Purchasing Department, Attention: Susan Harautuneian, 1205 S Madera Avenue, Madera CA 93637. Is there an option to hand-deliver the prequalification package in person at the noted address?	BURKE CONSTRUCTION CO.	9/13/2024	AD1	DARDEN	Yes, you may hand deliver prequalification packages to the Madera USD Purchasing Dept., at 1205 S. Madera Ave, Madera CA 93637, during normal business hours.	9/16/2024
002		GENERAL	Has the due date been clarified and finalized for Monday, September 16 or Wednesday, September 18?		9/13/2024	AD1	DARDEN	Prequals will be due Wednesday September 18. @ 10:00 a.m.	9/16/2024
003		11 40 00 - FOOD SERVICE EQUIPMENT	The written FS specs from the project manual do not coincide with the kitchen equipment floor plan. Can we expect revised foodservice specs or should we move forward with quoting per plan (A/A102) with standard accessories?	BURKE CONSTRUCTION CO.	9/18/2024	AD2	DARDEN	The written specs are being updated to match the equipment schedule on A/A102, moving forward with that schedule is acceptable. The updated specs will be included in Addendum 2.	9/26/2024
004		A/A102	Items #2 and #3 on the floor plan are listed as OFCI. This specific piece of equipment requires installation to be performed by a local authorized service agent and is purchased through the manufacturer. Whoever is purchasing this equipment will need to purchase the installation along with it. Please confirm that Items #2 and #3 are to be marked as OFOI.		9/18/2024	AD2	DARDEN	Items #2 and #3 will be changed to Owner Furnished Vendor Installed (OFVI) This change will be reflected in Addendum 2 in the specs and A/A102 equipment schedule.	9/26/2024
005		08 41 13 - FOLDING DOOR SYSTEM	There are no specs for door 106A on page X/A401. Please Provide.	Ardent General Inc.	9/23/2024	AD2	DARDEN	Specification for door 106a added, see 08 41 13 - FOLDING DOOR SYSTEM.	9/26/2024
006		SPECS	The contract in the spec book is listed for the UTK Buildings at Lincoln Elementary School. Please confirm if the conditions of the contract will be the same for this project.	SIMILE CONSTRUCTION	9/24/2024	AD2	GEORGE	Conditions will be the same for this project. Corrected contract issued in addenda 02	9/26/2024
007		SPECS	Please confirm if any of the new wall construction will be fire rated walls		9/24/2024	AD2	DARDEN	No new wall construction will be fire rated. Per CBC 2022 Table 601, Type IIA, Nonbearing walls and partitions Interior.	9/26/2024
008		SPECS	The kitchen equipment in both the Equipment Schedule and spec section 11 40 00 are different. Please advise which takes precedence.		9/24/2024	AD2	DARDEN	11 40 00 - FOOD SERVICE EQUIPMENT & 01 64 00 - OWNER-FURNISHED ITEMS Updated to match A/A102 Equipment Schedule.	9/26/2024
009		SPECS	The following specifications are found within the spec book, but is unclear where they apply on the plans. Please advise if the following still apply: a. 07 21 00 Insulation (plan shows only walls called out having no insulation per wall assemblies) b. 09 68 40 Carpet c. 10 05 00 Miscellaneous Specialties (projector) d. 31 31 00 Soil treatment		9/24/2024	AD2	DARDEN	a. Still applies, X/A101 Wall Assemblies updated to include insultation. b. No longer applies. c. No longer applies, removed from specification. d. No longer applies All specs that do not apply removed in addenda 02	9/26/2024
010		SPECS	General Conditions- Article 23- Item b and c state contractor is responsible for the NOI. The NOI must be completed by the LRP (Legally Responsible Person) for the owner. Please confirm the owner is responsible for the SWPPP and all state mandated direction of the state water board		9/24/2024	AD2	GEORGE	Because this project will disturb less than one acre, it is exempt from swppp reporting	9/26/2024
011		SPECS	Please update the boiler plate schedule for submittals		9/24/2024	AD2	DARDEN	Updated in Addenda 02	9/26/2024
012		SPECS	How long is the submittal process		9/24/2024	AD2	DARDEN	No fixed time requirement for submittals. Contractor to provide submittals in a timely manner to allow district's rep to review submittals as needed to allow construciton to proceed without delay	9/26/2024
013		SPECS	spec section 01 50 00 3.3 B.4.a-b and B.5.a-b, please clarify who will pay for construction utilities (water, electrical supply & services)		9/24/2024	AD2	DARDEN	See section 3.3, Article B. Temporary Utilities. Contractor reposnisble for cost of utilities used for construction	9/26/2024
014		SPECS	spec section 01 50 00- will a direct phone line be required?		9/24/2024	AD2	DARDEN	No	9/26/2024
015		SPECS	Spec Section 01 64 00- Schedule appears to be for a different project. Please udpate Drawings		9/24/2024	AD2	DARDEN	Schedule updated in addenda 02	9/26/2024
016		G000	On G000- G14- Deferred approvals is marked as none. Please confirm the fire sprinkler and fire alarm are deferred approvals		9/24/2024	AD2	DARDEN	Fire Alarm & Fire Sprinklers added to Deferred Approval List.	9/26/2024

017		X/A101	X/A101- the exterior details on this page are for CMU and stucco exterior walls. The existing building is a metal building. Please provide exterior wall details for a metal building		9/24/2024	AD2	DARDEN	Wall types corrected on X/A101, wall tags on plan views corrected on A/A102 & A/A103. No exterior work being done.	9/26/2024
018		A/A101 - A/A103	Please confirm there is no work, demolition or repair of the exterior wall or any components of the exterior wall of the metal building		9/24/2024	AD2	DARDEN	No work being done to the existing exterior walls.	9/26/2024
019		A/A101 - A/A103	In the Symbols legend on these sheets, all symbols indicate CMU, concrete, or stucco walls. Please provide correct symbols for this project		9/24/2024	AD2	DARDEN	CMU/Concrete/Stucco wall legend items removed.	9/26/2024
020		A/A101 - A/A103	There are five symbols for rated walls. Please provide locations, none shown		9/24/2024	AD2	DARDEN	No fire rated wall being used, line types in legend have been removed.	9/26/2024
021		A/A101 - A/A103	Notes 1 and 2 refer to wall assembly type 6.B'E.M and 6.B1.M. Wall assembly details not found. Please provide		9/24/2024	AD2	DARDEN	Notes revised, callouts changed to 6.A'/E.M & 6.E/I.M. Assemblies shown on X/A101.	9/26/2024
022		X/A401	Details on page X/A410 are not numbered or named. Please provide the needed information		9/24/2024	AD2	DARDEN	Sheet X/A410 removed.	9/26/2024
023		X/A401	The General Notes section is overwritten with "Legend must be edited for each project" making the legend unreadable. Please provide a readable legend		9/24/2024	AD2	DARDEN	See addenda 02 - Sheet will be reisuued with corrected legend	9/26/2024
024		X/A401	In the door opening schedule, door 106a is a storefront assembly. Should this door be in the glazing opening schedule?		9/24/2024	AD2	DARDEN	Door 106a is a sliding door system. Spec will be provided in addenda 02	9/26/2024
025		X/A401	Door 119a shows the door thickness as 4 feet. Please confirm the thickness of this door		9/24/2024	AD2	DARDEN	Door 119a thickness revised to 1 3/4".	9/26/2024
026		X/A410	There are two types of doors tops details on this page, and are different than what is shown on detail E4/A601. Hardware group on X/A401 calls out "F18S" doors stops. Please confirm which are to be installed and location for each type of door stop.		9/24/2024	AD2	DARDEN	Ives F18S door stop is the only door dtop to be used, sheet X/A410 removed, see detail E4/X/A601.	9/26/2024
027		X/A601	Detail N11 shows both wood and metal stud framing. Please confirm which is to be installed or indicate if it is either or.		9/24/2024	AD2	DARDEN	Metal framing only this project. Detail revised to indicate metal framing	9/26/2024
028		X/A601	There is a sign design for Assistive Listening System. Is the ALS an OFOI item?	SIMILE CONSTRUCTION	9/24/2024	AD2	DARDEN	No assisted listening devices required this project. Detail modified in addenda 02 to remove sign type.	9/26/2024
029		X/A601	Detail J7 is for vinyl-covered tackboard. Please provide specification and locations		9/24/2024	AD2	DARDEN	Vinyl covered tackboard not being used, detail removed.	9/26/2024
030		X/A603	Detail 11 is for cubicle curtain tracks. Please provide locations and specifications or confirm they are not in this contract		9/24/2024	AD2	DARDEN	Cubicle Curtain Tracks not used, detail removed.	9/26/2024
031		X/A603	Details A1-E1-J1-N-1 are all for a folding door system. Please provide locations and specifications or confirm they are not in this contract		9/24/2024	AD2	DARDEN	Specification for door 106a added, see 08 41 13 - FOLDING DOOR SYSTEM, La Cantina. Details A1-E1-J1-N1/X/A603 noted in the Head/Jamb/threshold column of the Opening Schedule - Doors on row 106a.	9/26/2024
032		X/A603	Detail A7 is metal framing for mechanical duct floor deck opening. Please provide locations and specifications or confirm they are not in this contract		9/24/2024	AD2	DARDEN	Mechanical Duct Second Floor Penetrations locations and A7/X/A603 detail reference added to Sheet A/A201, Reflected Ceiling Plan.	9/26/2024
033		X/A604	There are details for several kitchen equipment items on this page that are not in the equipment item schedule on A/A102. Please advise which items on this page are to be installed in this contract and add them to the equipment schedule on A/A102		9/24/2024	AD2	DARDEN	Detail L11 removed. Details J14-E14-A14/X/A604 updated to "2 Compartment Sink"	9/26/2024
034		A/A102	Detail A1 is noted as the kitchen equipment plan Option 1. No other options found. Please confirm this is the only option		9/24/2024	AD2	DARDEN	No other options, "Option 1" removed from title.	9/26/2024
035		A/A200	Demolition note CO4 indicates removal of a gypboard ceiling. The demolition plan detail A1, points to a wall at lines 6&C. Please confirm what the demolitions is for this location		9/24/2024	AD2	DARDEN	Keynote changed to "C06 - SELECTIVE DEMOLITION, Remove Portion of Soffit Wall."	9/26/2024
036		A/A201	In room 119, Open Office, between lines C & D and 8 & 9, please identify the "black line square".		9/24/2024	AD2	DARDEN	"Black line square" indicated new ACT to infill space left from the closet being demolished. "ACT-1 8'-10"" tag is noted above the box.	9/26/2024
037		A/A201	Room 119, please advise if there is a gypboard soffit at the north wall of this room. If yes, please provide details		9/24/2024	AD2	DARDEN	Existing gypboard soffit above the existing casework noted on A/A200 & A/A201.	9/26/2024

038		A/A300	Please confirm the roof is a metal roof and provide specification for patch back	SIMILE CONSTRUCTION	9/24/2024	AD2	DARDEN	existing roof is type R panel metal roof. No specific patchback required, as the only scope at roof is cutting in for new curbs/platforms. See updated details and updated roof accessories specification in addenda 02 for clarification of requirements at roof work	9/26/2024
039		A/A300	Please provide details for roof infill where the mechanical unit is being moved to another location		9/24/2024	AD2	DARDEN	See updated roof plans, addenda 02. New unit will be mounted on new platform in same location as existing.	9/26/2024
040		A/A602	Please provide locations for the type FEC and FEBC fire extinguishers and cabinets shown in the Symbols		9/24/2024	AD2	DARDEN	FEC and FEBC Symbols removed from Interior Elevation Legend. Bracket and Extinguisher shown on 106 - EAST.	9/26/2024
041		A/A801	Accent paint legend and accent paint plan calls out for paint colors 1-3. Please provide the colors		9/24/2024	AD2	DARDEN	Paint colors listed in Appendix B of Specifications.	9/26/2024

SECTION 01 33 00 – SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Provide all material, labor, equipment and services necessary to completely provide all required submittals and other related items necessary to complete the Project as indicated by the Contract Documents.

B. Related Sections: The following Project Manual Sections contain requirements that relate to this section:
   1. DIVISION 00 SPECIFICATION SECTIONS.
   2. DIVISION 01 SPECIFICATION SECTIONS.
   3. SPECIFICATION SECTIONS IN THE FACILITY CONSTRUCTION SUBGROUP.
   4. SPECIFICATION SECTIONS IN THE FACILITY SERVICES SUBGROUP.
   5. SPECIFICATION SECTIONS IN THE SITE AND INFRASTRUCTURE SUBGROUP.

1.2 SUBMITTALS

A. Contractor's responsibilities:
   1. The Contractor shall check, verify, and be responsible for all field measurements.
   2. The Contractor shall submit a schedule indicating when the required shop drawings and submittals will be submitted to the Architect.
      a. Submit schedule within the amount of days as indicated in Specification Section - CONSTRUCTION SCHEDULES.
   3. Submit copies as scheduled below, checked and approved by the Contractor for all submittals required for the work of the various trades. Deliver submittals promptly to avoid delays in delivery of materials or execution of the work.
      a. The Contractor (or Subcontractor) shall mark-up the submittals as to project specifics. If the specifications contains a schedule prepared by the Architect (i.e. paint symbols such as DW-1, M-1, CB-1, etc., or tile symbols such as CT-1, CT-2, or IWA, IWB, IWC, etc.), then the submittal will also contain those designations. Submittals without project specifics will be returned to the Contractor as not being properly prepared.
      b. The Contractor shall stamp the Submittals utilizing any language requested by the Owner in the General Conditions and the following minimum language:

"This submittal has been reviewed by (Name of Contractor) and approved with respect to the means, methods, techniques, sequences, and procedures of construction, and safety precautions and programs incidental thereto. The Contractor has reviewed and approved not only the field dimensions, but the construction criteria, and has also made written notation regarding any information in the Shop Drawings that does not conform to the Contract Documents. The Contractor has reviewed this submittal and coordinated with all other Shop Drawings received to date by the Contractor and this duty of coordination has not been delegated to subcontractors, material suppliers, the Architect, or the design consultants on this project. The Contractor shall also have indicated that it has not relied upon the dimensions shown on the drawings, specifications and schedules, and that the Contractor has double-checked all dimensions for accuracy and fit. (Name of Contractor) also warrants that this submittal complies with the Contract Documents and comprises no variation thereto."

By: _____ Contractor's Signature

_____ Contractor's Typed Name

c. Substitutions on shop drawings or in product submittals will not be considered without prior approval in accordance with Specification Section - SUBSTITUTION PROCEDURES. Submittals containing unacceptable items will be rejected.

d. The Contractor shall make any corrections required by the Architect during the Architect's initial review, and re-submit the required corrected copies for final review and distribution.

B. Architect's responsibilities:

1. The Architect will make any desired corrections with reasonable promptness, and return the submittal to the Contractor.

2. The Architect's review of such drawings or schedules shall not relieve the Contractor of responsibility for deviations from the drawings or specifications, unless he has, in writing, called the Architect's attention to such deviations at the time of submission, and secured written acceptance.

a. The Architect's review shall be for general conformance with the design concept for the project and general compliance with the information given in the Contract Documents.

b. The Architect's review shall not be construed as an "approval," or to relieve the Contractor(s) and material suppliers of responsibility for errors or omissions in the submitted documents.

c. Modifications or comments made on the submittals or shop drawings during this review do not relieve the Contractor from compliance with the requirements of the drawings and specifications.

d. Acceptance of a specific item does not include acceptance of the assembly of which the item is a component.

C. The following list of items, definitions and required quantities is a minimum required for this project. Verify with FACILITY SERVICES SUBGROUP sections for additional quantities required within those divisions.

1. Product Data: Illustrations, standard schedules, performance charts, instructions, brochures, diagrams, other product information, color choices and/or manufacturer's catalog sheets shall be specially prepared for the Project (marked-up with project specifics) and shall be submitted in sequential sets for each category of work:

a. Quantity:

1) Unless otherwise indicated in the Contract Documents, provide Six (6) sets.

b. Material Safety Data Sheets (MSDS): MSDS are not required, but it is recognized that applicable federal and state laws require the submission of these data sheets to an Owner. MSDS shall be turned over to the Owner (without review by the Architect or it's consultants) in compliance with federal and state laws.

2. Shop Drawings: Newly prepared information, drawn to accurate scale, consisting of drawings, diagrams, schedules, and other data specifically prepared for the Project by the Contractor, a Subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Project. Do not reproduce Contract Documents or copy Standard information as the basis of Shop Drawings. Standard information prepared without specific reference to the Project is not considered Shop Drawings.

a. Quantity: Provide One (1) reproducible original (vellum, sepia or mylar) and Three (3) opaque (blue-line or black-line xerographic) prints for each sheet or detail.

1) The contractor shall receive the marked-up reproducibles and copy the required number of sets to the subcontractor, manufacturer's and/or material suppliers.

b. Contractor's use of Architect's Electronic CAD Files.

1) Upon written request by Contractor, copies of the Architect's electronic CAD files may be available for Contractor's use in connection with this Project.
   a) Contractor's written request shall be on the Architect's "Contractor's Document Usage Agreement for Requested Documents" and may include an additional Architect's Consultant's Agreements, outlining conditions for providing files.
   b) Contractor's request shall be limited to drawings directly applicable to the Shop Drawings the Contractor wishes to create for submittal.
   c) Contractor shall pay the Architect for work incurred for providing the requested files. Payment shall be submitted with the request.
2) The Architect's electronic CAD files are limited to files that already exist and that not all files may be available at the Architect's and Architect's Consultant's discretion.
3) The Architect's electronic CAD files are not part of the Contract Documents and have limitations to the accuracy, incorporating modifications, CAD system formats, CAD entity attributes and layering.
4) The Architect's electronic CAD files have restrictions on Contractor's use, transmittal and delivery of files.

3. Samples: Physical examples specially prepared for the Project (marked-up with project specifics) which illustrate materials, equipment, or workmanship and establish standards by which the Work will be judged.
   a. Quantity:
      1) Unless otherwise indicated in the Contract Documents, provide Four (4) sets.
   b. Color samples shall be submitted on 8-1/2" x 11" cards for all colors scheduling paint types specified utilizing the paint symbols designated by the Architect in the drawings and specifications.
   c. Manufactured devices or equipment items:
      1) Quantity: One (1) sample, returned to supplier and which, when approved, may be incorporated into the Project.
4. Quality Assurance/Control submittals: Consists of design data, test reports, certificates, manufacturers instructions, and /or manufacturer's field reports.
   a. Quantity:
      1) Unless otherwise indicated in the Contract Documents, provide Six (6) sets.
5. Closeout submittals: Maintenance data, operating manuals, project documents, engineering calculations, and/or warranties shall be submitted when required in the various specification sections:
   a. Quantity:
      1) Unless otherwise indicated in the Contract Documents, provide Two (2) sets.
6. Field Samples: Sample panels of in place construction, or selected area of completed substrates or work showing the anticipated compliance with specified characteristics in order to establish a standard of quality.
   a. Quantity:
      1) See specific specification section requirements.
7. Mockups: Full-sized erected assemblies, used for coordination purposes or for testing in a laboratory, or required for approval in a finish form before the actual Project construction begins.
   a. Quantity:
      1) See specific specification section requirements.

D. Substitution, Dispute or Claim Submittals:

1. Any substitution, dispute or claim submittals relating to this contract, or any Contract breach, which are not disposed of by agreement shall be promptly submitted in accordance with the GENERAL CONDITIONS, as a claim to and decided by the Architect who shall issue a written decision on the dispute.
2. Adequate supporting data shall include, but is not limited; a statement of the reasons for the asserted entitlement, the certified payroll, invoice for material and equipment rental, and an itemized breakdown of any adjustment sought.
3. If no "SUBMISSION UNDER PENALTY OF PERJURY" clause is provided within the GENERAL CONDITIONS, then the Contractor shall certify, at the time of submission of a substitution, dispute or claim, as follows:

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SUBMISSION UNDER PENALTY OF PERJURY

I _____, being the _____(Must be an officer), declare under penalty of perjury under the laws of the State of California, and do personally certify and attest that: I have thoroughly reviewed the attached substitution, dispute or claim for additional compensation and/or extension of time, and know its contents, and said claim is made in good faith; the supporting data is truthful and accurate; that the amount required accurately reflects the contract adjustment for which the Contractor believes the Owner is liable; and further, that I am familiar with California Government Code Section 12650, et seq, pertaining to false claims, and further know and understand that submission of certification of a false claim may lead to fines, imprisonment and/or other severe legal consequences.

By: _____Contractor's Signature

_____Contractor's Typed Name

Date: _____

Submission of a substitution, dispute or claim, properly certified, with all required supporting documentation, and written rejection or denial or all or part of the claim by Owner, is a condition precedent to any action, proceeding, litigation, suit or demand for arbitration by Contractor.

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PART 2 - PRODUCTS

NOT APPLICABLE

PART 3 - EXECUTION

3.1 SCHEDULES

A. The following schedule was prepared to assist the Contractor in knowing the required submittals for this project, but may not be complete. Specific submittal information as to what is required is contained within the individual specification sections and those individual sections shall govern in the event of a question.

B. SUBMITTAL SCHEDULE

1. 01 11 13 - SUMMARY OF WORK
   a. QUALITY ASSURANCE/ CONTROL SUBMITTALS
2. 01 25 00 - SUBSTITUTION PROCEDURES
   a. SUBSTITUTION REQUEST FORMS
3. 01 29 73 - SCHEDULE OF VALUES
   a. SCHEDULE OF VALUES
4. 01 32 16 - CONSTRUCTION SCHEDULES
   a. CONSTRUCTION SCHEDULE, SHOP DRAWING SUBMITTAL SCHEDULE, CRITICAL PATH SCHEDULES, FRAGNETS.
5. 01 32 26 - FORMS AND REPORTS
   a. AS REQUIRED BY THIS SPECIFICATION SECTION AND OTHER SPECIFICATION SECTIONS.
6. 01 33 00 - SUBMITTAL PROCEDURES
   a. SHOP DRAWING AND SUBMITTAL SCHEDULE, COLOR SAMPLES OF ALL FINISH MATERIALS FOR COLOR BOARD SELECTION.
7. 01 45 29 - TESTING LABORATORY SERVICES
   a. TESTING SCHEDULE, TEST REPORTS
8. 01 71 23 - FIELD ENGINEERING
   a. COORDINATION DRAWINGS, QUALITY ASSURANCE/CONTROL SUBMITTALS, CLOSEOUT SUBMITTALS.
9. 01 77 20 - PROJECT CLOSEOUT
   a. ANOTATED CONTRACTOR’S AND ARCHITECT’S PUNCH LIST. ALL OPERATIONAL DATA, ALL MAINTENANCE MANUALS, ALL EXTRA MATERIALS.
10. 01 78 36 - WARRANTIES
    a. ALL GUARANTEES AND WARRANTIES
11. 01 78 39 - PROJECT DOCUMENTS
    a. PROJECT "AS-BUILT" DOCUMENTS, PROJECT "RECORD" DOCUMENTS AND PROJECT "CERTIFICATION" DOCUMENTS.
12. 03 11 01 - CONCRETE FORMWORK
    a. PRODUCT DATA, SAMPLES, QUALITY ASSURANCE/CONTROL SUBMITTALS, CLOSEOUT SUBMITTALS.
13. 03 15 14 - DRILLED ANCHORS
    a. PRODUCT DATA, ICC EVALUATION SERVICE REPORTS, DSA APPROVAL LETTERS.
14. 03 20 00 - REINFORCEMENT
    a. SHOP DRAWINGS, QUALITY ASSURANCE/CONTROL SUBMITTALS, CLOSEOUT SUBMITTALS.
15. 03 30 00 - CAST-IN-PLACE CONCRETE

a. PRODUCT DATA, QUALITY ASSURANCE/CONTROL SUBMITTALS, CLOSEOUT SUBMITTALS.

16. 03 35 10 - POLISHED CONCRETE FINISHING
    a. PRODUCT DATA, SHOP DRAWINGS, QUALITY ASSURANCE/ CONTROL SUBMITTALS, CLOSEOUT SUBMITTALS.
17. 05 12 00 - STEEL AND FABRICATIONS
    a. PRODUCT DATA, SHOP DRAWINGS, SAMPLES, QUALITY ASSURANCE/CONTROL SUBMITTALS, CLOSEOUT SUBMITTALS.
    b. SUBMITTALS, CLOSEOUT SUBMITTALS.
18. 06 10 00 - ROUGH CARPENTRY
    a. PRODUCT DATA, CERTIFIACTES OF COMPLIANCE, AND WARRANTIES.
19. 06 41 23 - MODULAR CASEWORK
    a. SHOP DRAWINGS, MANUFACTURER'S SPECIFICATIONS, COLOR SAMPLES, MOCK-UP, WI CERTIFICATION.
20. 06 61 16 - SOLID SURFACING
    a. SHOP DRAWINGS, MANUFACTURER'S SPECIFICATIONS, COLOR SAMPLES, MOCK-UP, WI CERTIFICATION.
21. 07 21 00 - INSULATION
    a. PRODUCT DATA, INSTALLATION INSTRUCTIONS, CLOSEOUT SUBMITTALS.
    b. PRODUCT DATA, SHOP DRAWINGS, SAMPLES, CLOSOUT SUBMITTALS.

22. 07 60 00 - SHEET METAL
    a. SHOP DRAWINGS
23. 07 72 00 - ROOF ACCESSORIES
    a. PRODUCT DATA, SHOP DRAWINGS, SAMPLES AND WARRANTIES.
24. 07 81 16 - FIREPROOFING
    a. MATERIALS LIST, COLORS, MANUFACTURER'S DATA, TEST DATA AND SAMPLES.
25. 07 84 00 - FIRESTOPPING
    a. PRODUCT DATA, CERTIFICATIONS, SHOP DRAWINGS QUALIFICATION DATA ON INSTALLERS.
26. 07 92 00 - SEALANTS
    a. PRODUCT DATA, COLORS AND WARRANTIES.
27. 08 11 00 - METAL DOORS AND FRAMES
    a. PRODUCT DATA AND SHOP DRAWINGS.
28. 08 15 13 - LAMINATE-FACED WOOD DOORS
    a. PRODUCT DATA AND SHOP DRAWINGS.
29. 08 13 73 – SLIDING DOOR SYSTEMS
    a. PRODUCT DATA, SHOP DRAWINGS AND WARRANTIES.
30. 08 70 00 - HARDWARE
    a. HARDWARE SCHEDULE AND CERTIFICATES.
31. 08 80 00 - GLASS
    a. PRODUCT DATA, MATERIALS LIST, SAMPLES AND CERTIFICATES.
32. 09 22 16 - METAL FRAMING
    a. PRODUCT DATA (INCLUDING INSTALLATION METHODS) AND MATERIALS LIST.
    b. MATERIALS LIST.
33. 09 29 00 - GYPSUM BOARD
    a. PRODUCT DATA, FASTENING SCHEDULE AND SAMPLES.
34. 09 30 00 - TILE
    a. PRODUCT DATA, COLORS, SAMPLES, CERTIFICATES, MAINTENANCE MATERIAL AND WARRANTIES.

35. 09 51 00 - ACOUSTICAL CEILINGS
    a. ACOUSTICAL TILE SAMPLES, SUSPENSION SYSTEM SAMPLES AND DSA APPROVED CEILING BRACING DRAWINGS.
    b. SUBMITTALS, CLOSEOUT SUBMITTALS AND WARRANTIES.
36. 09 65 10 - RESILIENT BASE AND ACCESSORIES
    a. PRODUCT DATA, SHOP DRAWINGS, QUALITY ASSURANCE/CONTROL SUBMITTALS, CLOSEOUT SUBMITTALS AND WARRANTIES.
37. 09 67 23 - RESINOUS FLOORING
    a. PRODUCT DATA, SHOP DRAWINGS, QUALITY ASSURANCE/CONTROL SUBMITTALS, CLOSEOUT SUBMITTALS AND WARRANTIES.
38. 09 72 00 - WALL COVERINGS
    a. PRODUCT DATA, SHOP DRAWINGS, QUALITY ASSURANCE/CONTROL SUBMITTALS, CLOSEOUT SUBMITTALS AND WARRANTIES.
39. 09 91 00 - PAINTING
    a. PRODUCT DATA, MATERIALS LIST, COLORS, MAINTENANCE INFORMATION AND WARRANTIES.
40. 10 05 00 - MISCELLANEOUS SPECIALTIES
    a. PRODUCT DATA, COLORS AND SAMPLES (WHERE APPLICABLE) FOR ALL ITEMS.
41. 10 14 00 - IDENTIFYING DEVICES
    a. PRODUCT DATA, SHOP DRAWINGS, QUALITY ASSURANCE/CONTROL SUBMITTALS, CLOSEOUT SUBMITTALS AND WARRANTIES.
42. 10 26 00 - WALL AND CORNER GUARDS
    a. PRODUCT DATA, SHOP DRAWINGS, QUALITY ASSURANCE/CONTROL SUBMITTALS, CLOSEOUT SUBMITTALS AND WARRANTIES.
43. 10 44 00 - FIRE PROTECTION SPECIALTIES
    a. PRODUCT DATA, SHOP DRAWINGS, QUALITY ASSURANCE/CONTROL SUBMITTALS, CLOSEOUT SUBMITTALS AND WARRANTIES.

44. 11 40 00 - FOOD SERVICE EQUIPMENT
    a. PRODUCT DATA, SHOP DRAWINGS, QUALITY ASSURANCE/CONTROL SUBMITTALS, CLOSEOUT SUBMITTALS AND WARRANTIES.
45. DIV 21 - FIRE SUPPRESSION SECTIONS
    a. REFER TO APPROPRIATE SPECIFICATION SECTION REQUIREMENTS.
46. DIV. 22 - PLUMBING SECTIONS
    a. REFER TO APPROPRIATE SPECIFICATION SECTION REQUIREMENTS.
47. DIV. 23 -HEATING, VENTILATING AND AIR CONDITIONING SECTIONS
    a. REFER TO APPROPRIATE SPECIFICATION SECTION REQUIREMENTS.
48. DIV. 25- INTEGRATED AUTOMATION SECTIONS
    a. REFER TO APPROPRIATE SPECIFICATION SECTION REQUIREMENTS.
49. DIV. 26- ELECTRICAL SECTIONS
    a. REFER TO APPROPRIATE SPECIFICATION SECTION REQUIREMENTS.
50. DIV. 27 -COMMUNICATIONS SECTIONS
    a. REFER TO APPROPRIATE SPECIFICATION SECTION REQUIREMENTS.
51. DIV. 28- ELECTRONIC SAFETY AND SECURITY SECTIONS
    a. REFER TO APPROPRIATE SPECIFICATION SECTION REQUIREMENTS.
52. 31 20 00 - EARTHWORK
    a. PRODUCT DATA, SHOP DRAWINGS, QUALITY ASSURANCE/CONTROL SUBMITTALS, PROJECT RECORD DOCUMENTS, AND WARRANTIES, AND DRAWINGS SHOWING KNOWLEDGE OF THE EXTENT OF ENGINEERED PADS.
53. 32 12 00- PAVEMENT

a. PRODUCT DATA, SHOP DRAWINGS, QUALITY ASSURANCE/CONTROL SUBMITTALS, PROJECT RECORD DOCUMENTS, AND WARRANTIES.

54. 33 40 00- STORM DRAINAGE

a. PRODUCT DATA, SHOP DRAWINGS, QUALITY ASSURANCE/CONTROL SUBMITTALS, PROJECT RECORD DOCUMENTS, AND WARRANTIES.

END OF SECTION

SECTION 01 64 00 – OWNER-FURNISHED ITEMS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Provide all materials, labor, equipment, and services necessary to prepare for installation for those items, noted or scheduled within the Contract Documents, indicated as follows:
      a. CFCI - Contractor Furnished, Contractor Installed
      b. OFCI - Owner Furnished, Contractor Installed
      c. OFOI - Owner Furnished, Owner Installed
      d. OFVI - Owner Furnished, Vendor Installed

B. Related Sections: The following Project Manual Sections contain requirements that relate to this section:
   1. DIVISION 00 SPECIFICATION SECTIONS.
   2. DIVISION 01 SPECIFICATION SECTIONS.
   3. SPECIFICATION SECTIONS IN THE FACILITY CONSTRUCTION SUBGROUP.
   4. SPECIFICATION SECTIONS IN THE FACILITY SERVICES SUBGROUP.
   5. SPECIFICATION SECTIONS IN THE SITE AND INFRASTRUCTURE SUBGROUP.

1.2 DEFINITIONS

A. Unless otherwise defined in the GENERAL CONDITIONS, the following definitions apply for this project:
   1. CFCI: CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
      a. When and if the indication "CFCI" is noted on the drawings or listed in the specifications, such items are shown or listed for information and will be furnished by and installed by the Contractor. Such a designation is listed only for clarity, in order to set the item(s) apart from the OFCI, OFOI, and OFVI related item(s).
      b. All item(s) shown or listed in the drawings and specifications without any indication are in the Contract and are part of the Work unless specifically noted otherwise.
   2. OFCI: OWNER FURNISHED, CONTRACTOR INSTALLED
      a. When and if the indication "OFCI" is noted on the drawings or listed in the specifications, such item(s) are shown or listed for information and will be furnished by Owner and installed by the Contractor. The Contractor shall coordinate and verify all dimensions and details necessary for the proper installation.
   3. OFOI: OWNER FURNISHED, OWNER INSTALLED
      a. When and if the indication "OFOI" is noted on the drawings or listed in the specifications, such item(s) are shown or listed for the purpose of general information and will be furnished and installed by Owner. The Contractor shall coordinate and verify all dimensions and details necessary for proper installation.
   4. OFVI: OWNER FURNISHED, VENDOR INSTALLED
      a. When and if the indication "OFVI" is noted on the drawings or listed in the specifications, such item(s) are shown or listed for information and will be furnished by the Owner and installed by the Vendor. The Contractor shall coordinate and facilitate all work to be completed by the Vendors.

1.3 SUBMITTALS

A. Submit in accordance with Specification Section - SUBMITTAL PROCEDURES:

1. Coordination Drawings:
   a. Submit installer's coordination drawings or other documents indicating the work of this section with that of related work of other sections for proper interface of the completed work. Installer shall coordinate and obtain approvals from the work of other related sections prior to submitting to the Architect.
   b. The Owner will provide Product Data, Shop Drawings, Piping and Wiring Diagrams, Catalog Data Sheets for any items provided under this Specification Section.
2. Closeout Submittals in accordance with Specification Sections in Division One:
   a. Project Record Documents in accordance with Specification Section - PROJECT DOCUMENTS.

1.4 QUALITY ASSURANCE

A. Regulatory Requirements:
   1. In accordance with Specification Section - REGULATORY REQUIREMENTS, and the following:
      a. CARB Materials and equipment used for this Project shall comply with the current applicable regulations of the California Air Resources Board (CARB) and the Environmental Protection Agency (EPA). Regulatory changes may affect the formulation, availability, or use of the specified coatings. Confirm availability of coatings to be used prior to use, and notify the Architect of any recent changes in the Local California Air District Standards where the Project is located, that may have occurred after the preparation of this specification section.

B. Meetings:
   1. Progress Meetings: Scheduled by the Contractor for the proper performance of the work.
      a. Minimum agenda shall be to review the work progress; discuss field observations, problems, and decisions; identification of any potential problems which may impede planned progress; corrective measures to regain projected schedules; and maintenance of quality and work standards in accordance with manufacturer's warranty requirements.
   2. Final Inspection: Scheduled by the Contractor upon proper completion of the work.
      a. Minimum agenda shall be a walkover inspection to identify problems which may impede the issuance of any warranties or guarantees, and discussion of maintaining the work until substantial completion notice for the project is filed.
   3. Participants (or designated representative of) invited to attend each of the above meetings shall be as follows:
      a. Contractor.
      b. Owner.
      c. Architect.
      d. Installer.
      e. Material Manufacturer(s).
      f. Subcontractors, as appropriate (including any accessory subcontractors).

1.5 DELIVERY, STORAGE, AND HANDLING

A. Packing, shipping, handling, and unloading:
   1. Products shall be handled in such a manner as to assure that they are free from dents, scratches and other damage. Damaged products will not be accepted. Contractor shall inspect prior to unloading, for any damaged goods, and if OK, will allow unloading and be responsible for the goods.

B. Acceptance at Site:
   1. The Contractor shall accept delivery of any items and the responsibility for all items to be furnished to him by the Owner.

C. Storage and protection:

1. Owner Furnished Equipment: The Owner will coordinate and inform the Contractor as to delivery dates for Owner Furnished Equipment to the Project Site. The Contractor shall be responsible for unloading, uncrating, and protecting such equipment.
2. When only a supporting device, or sub-assembly is to be installed by the Contractor the Owner shall provide only that portion and shall store and safeguard those portions to be installed later by others.
3. All products shall be protected, handled, and stored in complete compliance with the manufacturer's printed instructions to protect the Owner from warranty infringements or loss of the full function of the item specified.

1.6 PROJECT CONDITIONS OR SITE CONDITIONS

A. Existing Conditions:

1. Examine site and compare it with the drawings and specifications. Thoroughly investigate and verify conditions under which the work is to be performed. No allowance will be made for extra work resulting from negligence or failure to be acquainted with all available information concerning conditions necessary to estimate the difficulty or cost of the work.
2. Examine all preparatory work to determine its suitability and completeness. Notify the responsible Contractor of any deficiencies which must be corrected prior to installation.
3. Be satisfied that all conditions affecting installation, operation or function are suitable for installation of the items scheduled.
4. After installation, and acceptance by the inspector and the Architect, the Contractor shall provide protective guards, covers or barricades as required by the manufacturer.
5. The Contractor shall promptly repair, refurbish, or replace items damaged by his operations to a condition satisfactory to the Owners representatives and at no cost to the Owner.

1.7 WARRANTY

1. The Contractor shall provide access to the installed items or prepared substrates for the inspection of the manufacturers representatives, for the purpose of affirming the warranties scheduled.
2. All work shall be performed in full accordance with the manufacturers warranty requirements and all governing codes.

PART 2 - PRODUCTS

NOT APPLICABLE

PART 3 - EXECUTION

3.1 PREPARATION

A. Coordination:

1. Coordinate work under this specification section with work specified under other sections to ensure proper and adequate interface of work.
   a. Prepare all substrate blocking as required by the items Furnished By Owner.
   b. Prepare all wiring and piping connections as required by the items Furnished By Owner.

B. Protection:

1. Protect all adjacent surfaces from drips, spray, air pollution of surrounding environment, and other damage from work under this specification section.

C. Surface preparation:
   1. Prepare surface in accordance with manufacturer's instructions and recommendations.
   2. Clean substrates of substances (oil, grease, rolling compounds, incompatible primers, loose mill scale, etc.) which could impair bond or installation of materials specified within the Contract Documents.

3.2 INSTALLATION

A. General:
   1. In accordance with manufacturer's instructions and recommendations unless specifically noted otherwise.
   2. In accordance with approved submittals.
   3. In accordance with Regulatory Requirements.
   4. Set plumb, level, and square.

B. Layout:
   1. Lines shall be straight and true.

C. Material and Equipment to be installed:
   1. All items so noted or scheduled to be OFCI shall be unloaded, completely installed and placed in operable condition under this Contract.

3.3 CLEANING

A. Clean in accordance with Specification Section - PROJECT CLOSEOUT.
   1. Clean any soiled surfaces at the end of each day, minimum.
   2. In accordance with manufacturer's instructions and recommendations.

3.4 SCHEDULES

A. This schedule is provided for the convenience of the General Contractor for items not scheduled elsewhere on the drawings or in the Specification Sections. Refer to Drawings for additional items not listed below:

		STATUS
1.	KITCHEN EQUIPMENT	
a.	Irinox MF 250.2	CFCI
b.	Rational AG iCombi Pro 20-full size E	OFVI
c.	Rational AG iVario Pro L	OFVI
d.	TRUE T-49FG-HC~FGD01	OFCI
e.	TURE T-49G-4-HC~FGD01	OFCI
f.	Advance Tabco 94-62-36-18RL	CFCI
g.	Chicago 4445-DJ13	CFCI
h.	Advance Tabco MS-366	CFCI
i.	Advance Tabco 7-PS-46	CFCI
j.	CAMBRO CPU244872V4480	OFCI
k.	CAMBRO CPU246072V4480	OFCI
l.	Grease Master 6024 GSN-2-PSP-F	CFCI
m.	Grease Master 6024 GSN-2-PSP-F	CFCI
n.	Mars Air Unheated LPV2	CFCI
2.	ELECTRICAL EQUIPMENT	
a.	Main Switchboard MSB1	OFCI
b.	XFMR T-DB28	OFCI
c.	Distribution Board DB28	OFCI
d.	Panel KH	OFCI
e.	Panel R1	OFCI
f.	Panel M1	OFCI

END OF SECTION

SECTION 07 72 00 – ROOF ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Provide all material, labor, equipment and services necessary to completely install all roof accessory materials, accessories and other related items necessary to complete the Project as indicated by the Contract Documents.

B. Related Sections: The following Project Manual Sections contain requirements that relate to this section:
   1. DIVISION 00 SPECIFICATION SECTIONS.
   2. DIVISION 01 SPECIFICATION SECTIONS.
   3. 05 12 00 STEEL AND FABRICATIONS
   4. 06 10 00 ROUGH CARPENTRY
   5. 07 60 00 SHEET METAL
   6. 07 92 00 SEALANTS
   7. 09 22 16 METAL FRAMING
   8. 09 91 00 PAINTING
   9. SPECIFICATION SECTIONS IN THE FACILITY SERVICES SUBGROUP.

1.2 REFERENCES

A. Standards:
   1. In accordance with the following standards:
      a. ASTM American Society for Testing and Materials
      b. LIA Lead Industries Association.
      c. NRCA National Roofing Contractors Association (If the roofing system scheduled to be installed calls for related sheet metal flashing to be in accordance with NRCA detailing in order to satisfy their warranty requirements, then the NRCA detailing shall govern in lieu of SMACNA standards.)
      d. OSHA Occupational Safety and Health Administration
      e. SMACNA Sheet Metal and Air Conditioning Contractor's National Association, latest Edition, Architectural Sheet Metal Manual.

1.3 SYSTEM DESCRIPTION

A. (Manufactured Curbs Only) This section specifies curbs for mechanical and electrical equipment specified in Division 23 and Division 26, as well as architectural curbs in Division 05, Division 07 and Division 08. These curbs are designed and fabricated as welded single piece units that are structurally designed by the manufacturer to span structural framing. The curbs require structural calculations from the manufacturer in accordance with the CBC for the mechanical or electrical units supplied that are mounted on top of the curbs.
   1. Manufactured curbs shall be designed, engineered, and fabricated for exact mechanical units selected after bid, and can be designed for compound slopes and difficult roofing conditions. Designs shall accommodate each type of roofing condition.
   2. All curbs shall be designed to be a minimum of 8-inches above the finished roof at the top most portion of the curb, and designed with crickets for watertight connections.
   3. Construct curbs to match roof slopes with plumb and level top surfaces for mounting mechanical or electrical equipment.

1.4 SUBMITTALS

A. Submit in accordance with Specification Section - SUBMITTAL PROCEDURES:

1. Coordination Drawings (Manufactured Curbs only):
   a. Manufacturer(s) shall coordinate with the Contractor and the Roofing Subcontractor all applicable work placed on or penetrating the roof deck and roof membrane system for the proper selection of Roof Accessories for this project. Manufacturer shall coordinate with the Contractor all weights and dimensions from approved shop drawings of mechanical equipment and piping/conduit required for this project and fabricate accordingly. All items coordinated (including Structural Calculations) shall be presented within the shop drawings for the Architect's and Structural Engineer of Record's review.
2. Product Data.
   a. Include construction details, material descriptions, fabrication methods, dimensions of individual components and profiles, hardware, finishes, and operating instructions.
   b. Submit manufacturer's standard color range for selection by the Architect.
3. Shop Drawings.
   a. Submit shop drawings prepared by, or under the supervision of a registered Civil or Structural Engineer in the State of California, detailing fabrication and assembly of the work under this section, as well as procedures and diagrams. Include setting drawings, templates, and directions for installation of anchor bolts and other anchorage to be installed as unit of work of other related sections.
      1) Manufactured Curbs must be coordinated with the Structural Shop Drawings and Mechanical / Electrical Equipment supplied as to size and weights for any roof top installation.
4. Quality Assurance/Control Submittals:
   a. Manufacturer's Written Instructions:
      1) Manufacturer's written instructions.
5. Closeout Submittals in accordance with the following:
   a. Maintenance Data in accordance with Specification Section - PROJECT CLOSEOUT.
   b. Operation Data in accordance with Specification Section - PROJECT CLOSEOUT.
   c. Record Documents in accordance with Specification Section - RECORD DOCUMENTS.
   d. Warranty in accordance with Specification Section - WARRANTIES.

1.5 QUALITY ASSURANCE

A. Qualifications:

1. Installer Qualifications:
   a. Engage an experienced Installer who has successfully completed three (3) projects of similar scope and size to that indicated for this Project.
2. Manufacturer/Supplier Qualifications:
   a. Firm experienced in successfully producing/supplying products similar to that indicated for this Project, with sufficient production/supply capacity to produce/supply required units without causing delay in the work.

B. In accordance with Specification Section - REGULATORY REQUIREMENTS.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Packing, shipping, handling, and unloading:

1. Products shall be individually wrapped.
2. Products shall be handled in such a manner as to assure that they are free from dents, scratches and other damage.

B. Acceptance at Site:
   1. Products must be in manufacturer's original unopened containers with labels indicating brand name, model, and grade.
   2. Damaged products will not be accepted.
C. Storage and protection:
   1. Products shall be stored above ground on level platforms, six (6) inches above ground, allowing air circulation under stacked units.
      a. Cover materials with protective waterproof covering providing for adequate air circulation and ventilation.

1.7 WARRANTY
A. Contractor's General Warranty:
   1. In accordance with Specification Section - WARRANTIES.
B. Manufacturer's Warranty:
   1. Hatch Railing System shall provide a warranty against defects in material and workmanship:
      a. Warranty Period Five (5) Years.
         1) From the Date of Substantial Completion.
C. Installer's Warranty:
   1. Weather Tightness Warranty for Roof Accessories: Manufacturer's Standard form in which manufacturer agrees to repair or replace Roof Accessory assemblies that fail to remain weathertight, including leaks within specified warranty period. Warranty shall guarantee manufactured Roof Accessories to be free from defects in materials or workmanship.
      a. Warranty Period Five (5) Years.
         1) From the Date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS
A. These products listed herein establish the size, pattern, color range and function selected by the Architect for this Project. Manufacturers that are listed as acceptable alternative manufacturers and substitutions must still comply with the requirements of this project and the products listed in order to be approved as an equivalent during the Submittal Process. If the acceptable alternative manufacturers listed or substitutions are not approved during the Submittal Process due to non-compliance with the contract documents, then the Contractor shall submit product specified.
B. Products from other manufacturers not listed must submit in accordance with Specification Section - SUBSTITUTION PROCEDURES.

2.2 MANUFACTURED CURBS
A. General:
   1. Curbs shall be constructed to match roof slope of roof and provide a level top surface for mounting of mechanical equipment.
      a. Minimum height of all curbs shall be 8 inches above finished roof per NRCA requirements.
B. Equipment Curbs:
   1. Manufacturer: ROOF PRODUCTS, INC.
      a. Model Number:
         1) Metal Roof: RPMB-2.
      b. Acceptable alternative manufacturer: ROOF PRODUCTS & SYSTEMS CORP.

2. Factory installed pressure treated wood nailers.
3. Welded 18-gauge minimum galvanized steel shell and base plate, as applicable to roof equipment situation, with continuous mitered and welded corner seams.
4. 3 lb. density rigid fiberglass insulation board.
5. Internal angle reinforcing (1" x 1" x 12 gauge) on sides greater than 36 inches in length, spaced 24 inches o.c.
6. All welds to be coated with manufacturer's "Alumanation 100."
7. Internal curb duct supports as required for the type of Mechanical units selected for the project.
8. Diverter: Manufactured diverter for installation under existing Roof material
9. Panel Rib Covers: Manufactured loose units with sealed end for installation over roof ribs at eave side

C. Equipment Platform:
1. Manufacturer: ROOF PRODUCTS, INC.
   a. Model Number:
      1) Metal Roof: RPMB-2.
   b. Acceptable alternative manufacturer: ROOF PRODUCTS & SYSTEMS CORP.
2. Factory installed pressure treated wood nailers.
3. Welded 18 gauge minimum galvanized steel shell and base plate, as applicable to roof equipment situation, with continuous mitered and welded corner seams.
4. 3 lb. density rigid fiberglass insulation board.
5. Internal angle reinforcing (1" x 1" x 12 gauge) on sides greater than 36 inches in length, spaced 24 inches o.c.
6. All welds to be coated with manufacturer's "Alumanation 100."
7. Internal curb duct supports as required for the type of Mechanical units selected for the project.
8. Platform Cover:
   a. Welded 18 gauge galvanized steel construction.
   b. Cover cross broken for positive water run-off.
   c. Flared drip edge.
   d. Flat Lock and Soldered seams on covers 43 inches x 105 inches and larger.
9. Platform: Provide 1-1/8" thick fire-retardant treated T & G plywood top sheathing
10. Vapor Retarder: Two layers of 15lb building paper between plywood platform and curb cover.
11. Diverter: Manufactured diverter for installation under existing Roof material
12. Panel Rib Covers: Manufactured loose units with sealed end for installation over roof ribs at eave side

PART 3 - EXECUTION

3.1 EXAMINATION

A. Site verification of conditions:
1. Prior to the execution of the work under this specification section, inspect the installed work executed under other sections of this Project Manual which affect the execution of work under this specification section.
2. Report unacceptable conditions to the Architect. Do not begin work until unacceptable conditions have been corrected.
3. Execution of work under this specification section shall constitute acceptance of existing conditions.

3.2 PREPARATION

A. Coordination:

1. Coordinate work under this specification section with work specified under other sections to ensure proper and adequate interface of work.

B. Protection:

1. Protect all adjacent surfaces from drips, spray, air pollution of surrounding environment, and other damage from work under this specification section.

C. Surface Preparation:

1. Prepare surface in accordance with manufacturer's written instructions and recommendations.
2. Clean substrates of substances (oil, grease, rolling compounds, incompatible primers, loose mill scale, etc.) which could impair bond of materials specified within this section.

3.3 INSTALLATION

A. General:

1. In accordance with manufacturer's written instructions and recommendations unless specifically noted otherwise.
   a. Provide Hatch Railing System on all hatches or fire vents within ten (10) feet of any roof edge) and install in accordance with manufacturer's written instructions.
2. In accordance with approved submittals.
3. In accordance with Regulatory Requirements.
4. Set plumb, level, and square.
5. Damaged products shall not be installed.

B. Layout:

1. Lines shall be straight and true.

3.4 FIELD QUALITY CONTROL

A. Site Tests:

1. As required by Regulatory Requirements.

B. Inspection:

1. As required by Regulatory Requirements.
2. Schedule inspections and notify the Architect, Project Inspector and any other regulatory agencies of the time at least 48 hours prior to the inspection.
3. No work shall be without the inspections required by Regulatory Requirements.

3.5 ADJUSTING

A. Test and adjust controls and safeties. Replace damaged or malfunctioning controls and equipment.

3.6 CLEANING

A. Clean in accordance with Specification Section - PROJECT CLOSEOUT.

1. Clean any soiled surfaces immediately.
2. Finish shall be clean and ready for the application of any additional finishes.
3. In accordance with manufacturer's written instructions and recommendations.

END OF SECTION

SECTION 084113 -FOLDING DOOR SYSTEM

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Provide all material, labor, equipment and services necessary to completely install all Folding Door System materials, accessories and other related items necessary to complete the Project as indicated by the Contract Documents.

B. Related Sections: The following Project Manual Sections contain requirements that relate to this section:
   1. ALL DIVISION 00 SPECIFICATION SECTIONS.
   2. ALL DIVISION 01 SPECIFICATION SECTIONS.
   3. ALL SPECIFICATION SECTIONS IN THE FACILITY CONSTRUCTION SUBGROUP.
   4. ALL SPECIFICATION SECTIONS IN THE FACILITY SERVICES SUBGROUP.

1.2 REFERENCES

A. Standards:
   1. In accordance with the following standards:
      a. AAMA American Architectural Manufacturers Association
      b. ASTM American Society for Testing and Materials
      c. ANSI American National Standards Institute
      d. CPSC Consumer Product Safety Commission
      e. NFRC National Fenestration Rating Council

1.3 SYSTEM DESCRIPTION

A. Performance Requirements: It is the intention of this section and the drawings to form a guide for a complete and operable system. Any items not specifically noted but necessary for a complete and operable system shall be provided under this section.
   1. Air infiltration: Provide system with maximum air leakage of 0.30 cfm/sq ft when tested according to ASTM E 283 and NFRC 400 at a static air pressure difference of 1.57 psf and 6.24 psf.
   2. Water Penetration under Static Pressure:
      a. Provide system with a raised sill (inswing or outswing) that does not evidence water penetration when tested according to ASTM E 331 and ASTM E 547 at a static air pressure difference of 12 psf.

3. Water Penetration under Dynamic Pressure: Provide system with a raised sill that do not evidence more than allowable water entry when tested according to AAMA 520 and ASTM E 2268 at a dynamic rated air pressure difference of 6-18 psf for an inswing unit (Performance Level 2) and 5-15 psf for an outswing unit (Performance Level 1).
4. Structural Test Performance:
   a. Provide system with optional reinforced posts that when tested according to ASTM E 330 at 150 % of positive and negative design pressures with panel sizes of 3' wide and 8' high achieved with an inswing unit with a raised sill DP rating of +70 psf / -100 psf and an outswing unit with a raised sill and inswing/outswing units with saddle sills DP ratings of +/- 70 psf.
5. Forced Entry Resistance: Provide system that when tested according to ASTM F 842 and AAMA 1304 there was no entry.
6. Thermal Performance U factor: Unit to be rated, certified and labeled in accordance with NFRC 100, shown in manufacturer's latest published data for the glazing, sill, and direction of opening specified.
7. Solar Heat Gain Coefficient: Unit to be rated, certified and labeled in accordance with NFRC 200, shown in manufacturer's latest published data for the glazing, sill, and direction of opening specified.

1.4 SUBMITTALS

A. Submit in accordance with Specification Section - SUBMITTAL PROCEDURES:
1. Coordination Drawings:
   a. Submit installer's coordination drawings indicating the work of this section with that of related work of other sections for proper interface of the completed work. Installer shall coordinate and obtain approvals from the work of other related sections prior to submitting to the Architect.
2. Product Data.
   a. Submit manufacturer's full color range (including any standard colors) for selection by the Architect.
3. Shop Drawings.
   a. Submit shop drawings prepared by, or under the supervision of a registered Civil or Structural Engineer in the State of California, detailing fabrication and assembly of the work under this section, as well as procedures and diagrams. Include setting drawings, templates, and directions for installation of anchor bolts and other anchorage to be installed as unit of work of other related sections.
4. Quality Assurance/Control Submittals:
   a. Test Reports:
      1) Submit four (4) copies of testing laboratory's report.
   b. Certificates:
      1) Submit three (3) copies of certificates.
   c. Manufacturer's Instructions:
      1) Submit three (3) copies of manufacturer's instructions.
   d. Manufacturer's Field Reports:
      1) Submit three (3) copies of manufacturer's field reports.
   e. Engineering Calculations:

1) Submit four (4) copies of engineering calculations computed and signed by a registered Civil or Structural Engineer in the State of California.

5. Closeout Submittals in accordance with the following:
   a. Maintenance Data in accordance with Specification Section - PROJECT CLOSEOUT.
   b. Operation Data in accordance with Specification Section - PROJECT CLOSEOUT.
   c. Record Documents in accordance with Specification Section - RECORD DOCUMENTS.
   d. Warranty in accordance with Specification Section - WARRANTIES.

1.5 QUALITY ASSURANCE

A. Qualifications:
   1. Installer Qualifications:
      a. Engage an experienced Installer who has successfully completed three (3) projects of similar scope and size to that indicated for this Project.
   2. Manufacturer/Supplier Qualifications:
      a. Firm experienced in successfully producing/supplying products similar to that indicated for this Project, with sufficient production/supply capacity to produce/supply required units without causing delay in the work.

B. Regulatory Requirements:
   1. In accordance with Specification Section - REGULATORY REQUIREMENTS, and the following:
      a. CARB Materials and equipment used for this Project shall comply with the current applicable regulations of the California Air Resources Board (CARB) and the Environmental Protection Agency (EPA), in the area where the Project is located.

C. Certificates:
   1. Provide a letter on Contractor's Letterhead certifying work provided meets or exceeds the requirements of this Section.

D. Meetings:
   1. Progress: Scheduled by the Contactor during the performance of the work.
      a. Review for proper work progress.
      b. Identify any problems and acceptable corrective measures.
      c. Identify any measures to maintain or regain project schedule if necessary.
   2. Completion: Scheduled by the Contactor upon proper completion of the work.
      a. Inspect and identify any problems.
      b. Establish method and procedures to maintain protections while progressing to project completion.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Packing, shipping, handling, and unloading:
   1. Products shall be handled in such a manner as to assure that they are free from dents, scratches and other damage.

B. Acceptance at Site:
   1. Products must be in manufacturer's original unopened containers with labels indicating brand name, model, and grade.
   2. Damaged products will not be accepted.

C. Storage and protection:
   1. Products shall be stored above ground on level platforms, six (6) inches above ground, allowing air circulation under stacked units.
      a. Cover materials with protective waterproof covering providing for adequate air circulation and ventilation.

1.7 PROJECT CONDITIONS

A. Existing Conditions:
   1. Examine site and compare it with the drawings and specifications. Thoroughly investigate and verify conditions under which the work is to be performed. No allowance will be made for extra work resulting from negligence or failure to be acquainted with all available information concerning conditions necessary to estimate the difficulty or cost of the work.

1.8 WARRANTY

A. Contractor's General Warranty:
   1. In accordance with Specification Section - WARRANTIES.

B. Manufacturer's Warranty:
   1. In accordance with manufacturer's written standard warranty:
      a. Warranty Period: Ten years for rollers. For all other components, two years from date of delivery by manufacturer.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Products specified are from companies listed below, or approved equivalent. These products listed herein establish the size, pattern, color range and function selected by the Architect for this Project. Manufacturers that are listed as acceptable alternative manufacturers must still comply with the requirements of the products listed in order to be approved as an equivalent during the Submittal Process. If the acceptable alternative manufacturers listed are not approved during the Submittal Process due to non-compliance with the contract documents, then the Contractor shall submit product specified.
   1. Specified product manufacturer:
      a. NANA WALL SYSTEMS, INC. "NanaWall SL70".

B. Products from other manufacturers not listed must submit in accordance with Specification Section - SUBSTITUTION PROCEDURES.

2.2 MATERIALS

A. Frame and Panels: From manufacturer's standard profiles, provide head track, side jambs, and panels with dimensions shown on drawings.
   1. Provide panels with: Standard one lite.
   2. Provide standard bottom rail.
   3. Aluminum Extrusion: Extrusions with nominal thickness of .078" (2.0 mm). Alloy specified as AlMgSi0.5 with strength rated as 6063-T5. Anodized conforming to AAMA 611, powder coated conforming to AAMA 2604 or fluoropolymar kynar painted conforming to AAMA 2605.
   4. Thermally broken with ¾"-15/16" (20-24 mm) polyamide plastic reinforced with glass fibers. Polyamide plastic less than 3/4" (20 mm) wide or pour and de-bridge thermal break will not be accepted.
   5. Aluminum Finish:
      a. Clear anodized.
      b. Same finishes on inside and outside.

B. Glass:
   1. All glass to comply with safety glazing requirements of ANSI Z97.1 and CPSC 16CFR 1201. Provide manufacturer's standard glass with dry glazing:
      a. 15/16" (24 mm) double insulated clear safety
   2. Provide manufacturer's standard silver gray glass spacers. Provide with capillary tubes.

C. Locking Hardware and Handles:
   1. Main entry panel:

a. On the main entry panel for models with a pair of swing panels, provide manufacturer's standard lever handles on the inside and outside, a SCHLAGE compatible lock set with lockable latch, multi-point locking with a dead bolt and rods at the top and bottom on primary panel (a seven pin lock can be added when available).
   1) Rods to be concealed and not edge mounted.
   2) After turn of key or thumburn, depression of handles withdraws latch.
   3) Lifting of handles engages rods and turn of key or thumb turn engages deadbolt and operates lock.
   4) On the secondary swing panel, provide matching dummy lever handles on both sides and concealed flush bolts that operates the rods at the top and the bottom for the secondary swing panel.
      a) Stainless steel lever handles in a brushed satin finish

2. On all other secondary panels and pairs of folding panels, provide manufacturer's standard handles and concealed two point locking hardware operated by 180 degree turn of handle between each pair.
   a. Face applied flush bolt locking will not be allowed.
   b. Standard handle finish:
      1) Stainless steel standard handles in a brushed satin finish.
3. Provide handle height centered at 41 ⅜" from bottom of panel.
4. Aluminum locking rods with standard fiber glass reinforced polyamide end caps at top and bottom. Rods to have a stroke of 15Ä/16" (24 mm).
5. If there are more than one unit, keyed alike.

D. Sliding/Folding Hardware: Provide manufacturer's standard combination sliding and folding hardware with top, bottom tracks and threshold. All running carriages to be with sealed, self-lubrication, ball bearing multi-rollers. Surface mounted hinges and running carriages will not be allowed. Weight of panels to be borne by the bottom of the guide channel in the sill will not be allowed.
   1. Provide upper guide carriage and lower running carriage with four vertical stainless steel wheels and two horizontal polyamide wheels. The vertical wheels to ride on top of stainless steel guide track covers over the full length of the sill track and lie above the water run-off level. Carrying capacity of lower running carriage to be 440 lbs (200 kgs). Wheels riding below the water run-off level and/or wheels riding on aluminum surfaces will not be allowed.
   2. Threshold:
      a. Clear anodized low profile saddle sill.
   3. Hinges: Zinc die cast with finish closest match to finish of frame and panels.
      a. Provide stainless steel security hinge pins with set screws.
      b. Continuous Hinge at swing door shall meet requirements in Specification Section - HARDWARE.
   4. Adjustment: Provide folding/sliding hardware capable of specified amount of compensation and adjustments without needing to remove panels from tracks, in width, 1Ä/16" (1.5 mm) per hinge and in height, 1Ä/16" (2 mm) up and down.
   5. Weather stripping: Provide manufacturer's standard double layer EPDM, Q-lon gasket or brush seals with a two layer fiber glass reinforced polyamide fin at both the inner and outer edge of door panels or on frame for sealing between panels and between panel and frame. Single layer weather stripping will not be allowed.

a. Provide tapered pins or stainless steel screws for connecting frame components.

2.3 FABRICATION

A. Use extruded aluminum frame and panel profiles, corner connectors and hinges, sliding and folding hardware, locking hardware and handles, glass and glazing and weather stripping as specified herein to make a folding glass wall. Factory pre-assemble as is standard for manufacturer and ship with all components and installation instructions.

B. Sizes and Configurations:
1. See drawings for selected custom dimensions within maximum frame sizes possible as indicated in manufacturer's literature.
2. See drawings for selected number of panels and configuration.
3. Outward opening unit.
4. On configurations with a pair of swing panels, looking from inside, primary swing panel on the left

PART 3 - EXECUTION

3.1 EXAMINATION

A. Site verification of conditions:
1. Prior to the execution of the work under this specification section, inspect the installed work executed under other sections of this Project Manual that affects the execution of work under this specification section.
2. Report unacceptable conditions to the Architect. Do not begin work until unacceptable conditions have been corrected.
3. Examine surfaces of openings and verify dimensions; verify rough openings are level, plumb, and square, with no unevenness, bowing, or bumps on the floor.
4. Installation of units constitutes acceptance of existing conditions.

3.2 PREPARATION

A. Coordination:
1. Coordinate work under this specification section with work specified under other sections to ensure proper and adequate interface of work.

B. Protection:
1. Protect all adjacent surfaces from drips, spray, air pollution of surrounding environment, and other damage from work under this specification section.

C. Surface preparation:
1. Prepare surface in accordance with manufacturer's instructions and recommendations.
2. Clean substrates of substances (oil, grease, rolling compounds, incompatible primers, loose mill scale, etc.) which could impair bond of materials specified within this section.

3.3 INSTALLATION

A. General:
1. In accordance with manufacturer's written instructions and recommendations unless specifically noted otherwise.
2. In accordance with approved submittals.
3. In accordance with Regulatory Requirements.
4. Set plumb, level, and square.
5. Install frame in accordance manufacturer's recommendations and installation instructions.
6. Properly flash and waterproof around the perimeter of the opening.

3.4 CLEANING

A. Clean in accordance with Specification Section - TEMPORARY FACILITIES AND CONTROLS.
1. Clean any soiled surfaces immediately.
2. In accordance with manufacturer's instructions and recommendations.

3.5 PROTECTION

A. Protection from traffic:
1. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer, which ensures the work of this section being without damage or deterioration until the time of Substantial Completion.

3.6 SCHEDULE

A. HARDWARE GROUP NO. 33 - EXTERIOR / PART OF NANAWALL SYSTEM / ACCESS CONTROL

	QTY	DESCRIPTION	CATALOG NO.	FINISH	MFR
1.					
2.	1 EA	Continuous Hinge	Provided by Manufacturer	Clear	NanaWall
3.	1 EA	Door Coord	See HARDWARE		
4.	1 EA	Elec. Panic Hardware	See HARDWARE		
5.	1 EA	Rim Cylinder	See HARDWARE		
6.	1 EA	Core	See HARDWARE		
7.	1 EA	90 Deg Offset Pull	See HARDWARE		
8.	1 EA	Surface Closer	See HARDWARE		
9.	1 EA	Floor Stop / Holder	Per Detail		
10.	1 EA	Weather Seal	Manufacturers Standard		NanaWall
11.	1 EA	Threshold	Per Detail		
12.	1 EA	Power Supply	See HARDWARE		

13. Card reader, Door Contacts, and Wiring per ACCESS CONTROL.

END OF SECTION

SECTION 09 30 00 - TILE

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Provide all material, labor, equipment and services necessary to completely install all tile materials, accessories and other related items necessary to complete the Project as indicated by the Contract Documents.

B. Related Sections: The following Project Manual Sections contain requirements that relate to this section:
   1. DIVISION 00 SPECIFICATION SECTIONS.
   2. DIVISION 01 SPECIFICATION SECTIONS.
   3. 03 30 00 CAST-IN-PLACE CONCRETE
   4. 06 10 00 ROUGH CARPENTRY
   5. 07 92 00 SEALANTS
   6. 09 22 16 METAL FRAMING
   7. 09 29 00 GYPSUM BOARD
   8. 09 68 40 CARPET
   9. 11 40 00 FOOD SERVICE EQUIPMENT
   10. SPECIFICATION SECTIONS IN THE FACILITY SERVICES SUBGROUP.

1.2 REFERENCES

A. Standards:
   1. In accordance with the following standards:
      a. ADAAG Americans with Disabilities Act Accessibilities Guidelines
      b. ADAS Americans with Disabilities Act Standards
      c. ANSI American National Standards Institute, Specifications for the Installation of Ceramic Tile, latest edition, unless otherwise indicated.
      d. FDA Food and Drug Administration
      e. TCNA Tile Council of North America "Handbook for Ceramic Tile Installation"

1.3 DEFINITIONS

A. Definitions shall comply with the latest edition of the TCNA "Handbook for Ceramic Tile Installation."
   1. MOH's: Relative Measure of Hardness by scratching the surface of the tile with different minerals and subjectively assigning a "MOH's Scale Hardness" number to the glaze.

1.4 SUBMITTALS

A. Submit in accordance with Specification Section - SUBMITTAL PROCEDURES:
   1. Product Data:
      a. For each type of Tile indicated.
      b. Manufacturer's full color range (including any standard and premium colors).
      c. Design Data for components, fillers, adhesives, etc.
   2. Shop Drawings:
      a. Location of all movement/expansion joints.
   3. Samples:
      a. 12-inch square sample of each color and pattern selected.
      b. 6-inch lineal samples of each piece of trim material specified.

4. Quality Assurance/Control Submittals:
   a. Test Reports:
      1) From Manufacturer that all floor tile complies with the slip resistance standards recommended by the ADAAG/ADAS.
   b. Certificates:
      1) Provide TCNA Master Grade Certificate.
   c. Manufacturer's Written Installation Instructions.
   d. Statement of Installer's Qualifications.
5. Closeout Submittals in accordance with the following:
   a. Maintenance Data in accordance with Specification Section - PROJECT CLOSEOUT.
   b. Warranty in accordance with this specification, and with Specification Section - WARRANTIES.

1.5 QUALITY ASSURANCE

A. Qualifications:
   1. Material Qualifications:
      a. Tile Grade: Standard Grade in accordance with ANSI A 137.1x.
      b. Tile shall meet the Breaking Strength limits listed in accordance with ASTM C 648 "Test Method for Breaking Strength of Ceramic Tile."
      c. Tile shall meet the Scratch Hardness limits in accordance with MOH's
      d. TCNA Master Grade Certificate signed by tile manufacturer and tile installer.
   2. Installer Qualifications:
      a. Engage an experienced Installer who has successfully completed three (3) projects of similar scope and size to that indicated for this Project.
B. In accordance with Specification Section - REGULATORY REQUIREMENTS.
      a. CBC California Building Code (CBC 804.1)
C. Meetings:
   1. Pre-Installation: Scheduled by the Contractor prior to the start of work.
      a. Coordinate the work with other work being performed.
      b. Identify any potential problems that may impede planned progress and proper installation of work regarding quality of installation and warranty requirements.
      c. Review delivery, storage, and handling procedures.
      d. Review Project Conditions.
      e. Review subfloor preparation procedures.
   2. Progress: Scheduled by the Contractor during the performance of the work.
      a. Review for proper installation of work progress.
      b. Identify any installation problems and acceptable corrective measures.
      c. Identify any measures to maintain or regain project schedule if necessary.
   3. Completion: Scheduled by the Contractor upon proper completion of the work.
      a. Inspect and identify any problems that may impede issuance of warranties or guaranties.
      b. Maintain installed work until the Notice of Substantial Completion has been executed.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Packing, shipping, handling, and unloading:
   1. Products shall be handled in such a manner as to assure that they are free from dents, chips, scratches and other damage.
B. Acceptance at Site:
   1. Products must be in manufacturer's original unopened containers with labels indicating brand name, model, and grade.
   2. Damaged products will not be accepted.

C. Storage and protection:
   1. Products shall be stored above ground on level platforms, six (6) inches above ground, allowing air circulation under stacked units.
      a. Cover materials with protective waterproof covering providing for adequate air circulation and ventilation.

1.7 PROJECT CONDITIONS
A. Environmental requirements:
   1. Temperature:
      a. Maintain temperature in space to receive ceramic tile above 50 degrees F for 3 days prior, during, and 7 days following installation.
B. Existing Conditions:
   1. Examine site and compare it with the drawings and specifications. Thoroughly investigate and verify conditions under which the work is to be performed. No allowance will be made for extra work resulting from negligence or failure to be acquainted with all available information concerning conditions necessary to estimate the difficulty or cost of the work.
   2. Field Measurements:
      a. Take and be responsible for field measurements as required.
      b. Report any significant differences between field dimensions and drawings to the Architect.

1.8 WARRANTY
A. Contractor's General Warranty:
   1. In accordance with Specification Section - WARRANTIES.
B. Manufacturer's Warranty:
   1. In accordance with manufacturer's written standard warranty,
   2. Warranty Period shall be for the following:
      a. Interior Ceramic Tile One (1) Year.
C. Installer's Warranty:
   1. In accordance with the terms of the Specification Section - WARRANTIES:
      a. Warranty period: One (1) Year.

1.9 MAINTENANCE
A. Extra Materials:
   1. Maintenance Material:
      a. In accordance with Specification Section - PROJECT CLOSEOUT.
      b. Supply 2 square feet of tile and 3 lineal feet of trim for each color and pattern of tile

PART 2 - PRODUCTS

2.1 MANUFACTURERS
A. These products listed herein establish the size, pattern, color range and function selected by the Architect for this Project. Manufacturers that are listed as acceptable alternative manufacturers and substitutions must still comply with the requirements of this project and the products listed in order to be approved as an equivalent during the Submittal Process. If the acceptable alternative manufacturers listed or substitutions are not approved during the Submittal Process due to non-compliance with the contract documents, then the Contractor shall submit product specified.

1. Interior Ceramic Tile manufacturer:
   a. DALTILE.
   b. Acceptable alternative manufacturers:
      1) CROSSVILLE CERAMICS.
      2) INTERCERAMIC.
2. Grout Materials manufacturer:
   a. MAPEI.
   b. Acceptable alternative manufacturers:
      1) CUSTOM BUILDING PRODUCTS, INC.
      2) LATICRETE.
3. Mortar Materials manufacturer:
   a. MAPEI.
   b. Acceptable alternative manufacturers:
      1) CUSTOM BUILDING PRODUCTS, INC.
      2) LATICRETE.
4. Admixture manufacturer:
   a. MAPEI "Plancrete AC."
5. Metal Trim manufacturer:
   a. SCHLUTER SYSTEMS.
6. Membranes manufacturer:
   a. THE NOBLE COMPANY.
   b. Acceptable alternative manufacturers:
      1) DALTILE.
      2) INTERCERAMIC.
7. Cementitious Backer Units manufacturer:
   a. USG CORPORATION "DUROCK Cement Board"
   b. Acceptable alternative manufacturers:
      1) C-CURE "C-Cure Board 990"
      2) CUSTOM BUILDING PRODUCTS "Wonderboard"
      3) FINPAN, INC. "Util-A-Crete Concrete Backer Board"
8. Sealer manufacturer:
   a. CUSTOM BUILDING PRODUCTS Tile Lab "Surface Gard Penetrating Sealer"
      1) Acceptable alternative manufacturers:
         a) C-CURE "Penetrating Sealer #978"

B. Products from other manufacturers not listed must submit in accordance with Specification Section - SUBSTITUTION PROCEDURES.

2.2 MATERIALS

A. General:
   1. Slip Resistance:
      a. Level Surfaces:
         1) Static Coefficient of Friction (SCOF): Tile installed on level walkway surfaces shall be slip resistant by achieving a minimum 0.6 or greater static coefficient of friction as recommended in Appendix A4.5 of the ADAAG by testing per ASTM C 1028 "Test method for Static Coefficient of Friction of Ceramic Tile and Like Surfaces by the Horizontal Dynometer Pull Meter Method."

2) Dynamic Coefficient of Friction (DCOF): Tile installed on level walkway surfaces shall be slip resistant by achieving a minimum 0.42 or greater dynamic coefficient of friction as recommended in ADAS per TCNA technical bulletin "Coefficient of Friction and the DCOF AcuTest," by testing per ANSI A 137.1 "American National Standard Specifications for Ceramic Tile," section 9.6 "Procedure for Dynamic Coefficient of Friction (DCOF) Testing."

b. Ramps:

1) Tile installed on ramps shall achieve a minimum 0.8 or greater static coefficient of friction as recommended in Appendix A4.5 of the ADAAG by testing per ASTM C 1028 "Test method for Static Coefficient of Friction of Ceramic Tile and Like Surfaces by the Horizontal Dynometer Pull Meter Method."

2. Colors and patterns shall be selected from manufacturer's standard line (including premium), except as noted otherwise.

B. Ceramic:

1. Interior Floor Tile **CT-1.**

a. Manufacturer: DALTILE.

1) ~~Stagecraft, Kaleidoscope Mosaic Undulated~~ Color Wheel Retro

2) Trim to match.

a) Tile Trim Units: Provide tile trim units (i.e. "bullnoses," "thin-set bullnoses," "coves," "thin-lip bases," "round top bases," "beads," and "countertop edge trims" as is appropriate to tile types) to match characteristics of adjoining flat tile.

b. Design: ~~6" x 6" x ¼" thick~~ 2" x 3"x ¼" thick Cube Mosaic

c. Pattern: Any combination thereof of the sizes listed above, to be back/edge mounted on manufacturers strong, flexible 12" x ~~15~~13" Sheet

d. Grout joint width: 1/8".

e. Color: Shall be selected in any combination thereof from manufacturer's full range of color.

f. Material: Glazed Ceramic Mosaics.

1) Water Absorption: less than 3 percent.

2) Breaking Strength: greater than 120-230 lbs.

3) Chemical Resistance: Resistant.

4) Bond Strength: greater than 65 psi.

5) Coefficient of Friction: greater than or equal to 0.60.

C. Setting Bed:

1. Thick-Set:

a. Portland Cement: In accordance with ASTM C 150 "Specification for Portland Cement• ," Type 1.

b. Sand (Aggregate): In accordance with ASTM C 144 "Standard Specification for Aggregate for Masonry Mortar."

c. Hydrated Lime: In accordance with ASTM C 207 "Specification for Hydrated Lime for Masonry Purposes.," Type S.

d. Admixture: Shall be Mortar Latex Admix "Planicrete AC" as manufactured by MAPEI, or approved equivalent.

1) This Admixture serves as a replacement for part or all of gaging water, of type specifically recommended by latex-additive manufacturer for use with field-mixed portland cement and aggregate mortar bed.

2. Thin-Set:

a. Dry-Set Portland Cement Mortar: In accordance with ANSI A 118.1-1999.

1) Shall be "Kerabond" by MAPEI, or approved equivalent for floor and wall surfaces.

a) For wall applications, provide non-sagging mortar that complies with Paragraph F-4.6.1 in addition to the other requirements in ANSI A118.4.

b. Modified Dry-Set Cement Mortar: In accordance with A118.4TE, A118.15TE and A118.11

1) Shall be "Large Floor Tile Mortar" by MAPEI, or approved equivalent.

a) Approved Equivalent: 'ProLite Premium Large Format Tile Mortar' by CUSTOM BUILDING PRODUCTS.

2) For floor applications in which the long edge of tile exceeds 8" (large format tiles).

c. Latex-Portland Cement Mortar: In accordance with ANSI A 118.4-1999.

1) Shall be "Keralastic" + "Kerabond" by MAPEI, or approved equivalent for floor and wall masonry or floor and wall concrete surfaces.

a) For wall applications, provide non-sagging mortar that complies with Paragraph F-4.6.1 in addition to the other requirements in ANSI A118.4.

D. Grout:

1. Cement:

a. ANSI A108.10, composed of white or gray cement and white or colored aggregate as required to produce color indicated.

2. Commercial Cement:

a. ANSI A118.6, composed of Standard Sanded Cement Grout, color as indicated.

3. Silicone-Rubber:

a. One-part, chemically curing, silicone-rubber-based elastomeric sealants used for factory-grouted joints within pre-grouted sheets of glazed wall tile and for field-grouted joints between the same pre-grouted sheet

1) Silicone-Rubber grout shall not be used on kitchen countertops or other food preparation surfaces unless it meets the requirements of FDA Regulation No. 21, CFE 177.2600.

4. Dry-Set:

a. ANSI A 108.5-1999 and ANSI A 118.1-1999, a mixture of Portland Cement with sand and additives, color as indicated.

5. Epoxy:

a. ANSI A118.3-1999, Chemical-Resistant, Water-Cleanable, Ceramic Tile-Setting and Grouting Epoxy, color as indicated.

2.3 ACCESSORIES

A. Metal Trim:

1. Outside Wall Corner and Edges:

a. Manufacturer: SCHLUTER SYSTEMS, "JOLLY"

b. Material: Extruded Aluminum.

c. Finish: Natural (AN).

2. Cover Base:

a. Manufacturer: SCHLUTER SYSTEMS, "DILEX-AHKA"

b. Material: Extruded Aluminum.

c. Finish: Natural (AN).

B. Membranes:

1. Wall:

a. Polyethylene, 4 mil sheet with 6 inch laps at wet areas.

b. Polyethylene, 6 mil sheet with 6 inch laps at shower areas adjacent to concrete or masonry wall areas.

2. Floor:

a. Mortar bed: Nonplasticized, chlorinated polyethylene sheet faced on both sides with nonwoven polyester fabric; 0.040 inch nominal thickness, water vapor transmission rate 0.040 perms per ASTM E 96 "Test Methods for Water Transmission of Materials," Procedure E.
   1) "Chloraloy" by THE NOBLE COMPANY.
b. Thin-Set: Nonplasticized, chlorinated polyethylene sheet faced on both sides with nonwoven polyester fabric; 0.030 inch nominal thickness, water vapor transmission rate 0.15 perms per ASTM E 96 "Test Methods for Water Transmission of Materials," Procedure E.
   1) "Nobleseal TS" by THE NOBLE COMPANY.
   2) Approved equivalent: "Dal-Seal CIS" by DALTILE over a skim coat of "Keralastic" + "Kerabond" by MAPEI.

C. Cementitious Backer Units:
1. Provide cementitious backer units complying with ANSI A118.9-1999, in maximum lengths available to minimize end-to-end butt joints.
   a. Thickness: Manufacturer's standard thickness, but not less than 1/2 inch unless otherwise noted.
   b. Width: Manufacturer's standard width, but not less than 32 inches, unless otherwise noted.

D. Miscellaneous Materials:
1. Provide miscellaneous guides, shims, spacers, rust resistant fasteners, etc., applicable to substrates and finish materials necessary for flat and true surfaces that minimize cracks, bulges and uneven surfaces.

E. Cleaners:
1. Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.

F. Sealers:
1. Grout and Tile Sealer: Manufacturer's standard product for sealing grout joints and tile surfaces that does not change color or appearance of grout or tile.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
1. Verify that substrates for setting tile are firm; dry; clean; free of coatings that are incompatible with tile-setting materials, including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated.
2. Verify that concrete substrates for tile floors comply with surface finish requirements in ANSI A108.01 for installations indicated.
   a. Verify that surfaces that received a steel trowel finish have been mechanically scarified.
   b. Verify that protrusions, bumps, and ridges have been removed by sanding or grinding.
3. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed.
4. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Architect.

B. Report unacceptable conditions to the Architect. Do not begin work until unacceptable conditions have been corrected.

C. Execution of work under this specification section shall constitute acceptance of existing conditions.

3.2 PREPARATION

A. Coordination:
   1. Coordinate work under this specification section with work specified under other sections to ensure proper and adequate interface of work.
   2. Prior to installation of Tile, inspect the installed work executed under other Sections which affect the installation of Tile.
      a. Prepare masonry surfaces with a parge coat and cure so that all surfaces are flat prior to the installation of tile.

B. Protection:
   1. Protect all adjacent surfaces from drips, spray, air pollution of surrounding environment, and other damage from work under this specification section.

C. Surface preparation:
   1. Prepare surface in accordance with manufacturer's written instructions and recommendations.
   2. Clean substrates of substances (oil, grease, rolling compounds, incompatible primers, loose mill scale, etc.) which could impair bond of materials specified within this section.
   3. Fill cracks, holes, and depressions in concrete substrates for tile floors with trowelable leveling and patching compound specifically recommended by tile-setting material manufacturer.
   4. Maximum backing surface variations shall be as follows:
      a. Mortar Bed at Floors: 1/4 inch in 10 feet from required plane.

D. Blending: For tile exhibiting color variations, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

3.3 INSTALLATION

A. General:
   1. In accordance with manufacturer's written instructions and recommendations unless specifically noted otherwise.
   2. In accordance with approved submittals.
   3. In accordance with Regulatory Requirements.
   4. Set plumb, level, and square.
   5. Determine location of all movement/expansion joints before starting tile work.
   6. Install Cementitious Backer Units in accordance with Cementitious Backer Unit Board Manufacturer's recommendations.
      a. Shim Cementitious Backer Unit Boards as required for a flat and true surface plane with no bulges or uneven or flared surfaces.
      b. Set shims at fasteners.
      c. Fasten with corrosion resistant, waferhead, self-drilling screws with countersinking ribs, min. 8 gauge. Set flush with Board's surface. Fasten thru shims.
   7. Determine location of all toilet accessories before starting tile work.
   8. Isolate tile installations from concrete slabs at shower floor areas to minimize cracking of the tile installation systems. Install in accordance with the TCNA recommendations using cleavage membranes.
      a. Provide crack isolation membranes as required in accordance with TCNA installation requirements.
   9. Provide wall membranes as required by TCNA installation requirements.

B. Layout:
   1. Lines shall be straight and true.

2. Refer to Wall and Floor Pattern Drawing(s) in the Interior and Exterior Color Schedules for layout of patterns.
3. Lay out all tile work to minimize cuts less than one-half in size.
4. Lay out tile wainscots to next full tile beyond dimension shown.

C. Joints
1. General: Movement/Expansion Joints shall be placed in accordance with the TCNA recommendations for placement.
2. Align all wall joints to give straight uniform grout lines, plumb and level.
3. Align all floor joints to give straight uniform grout lines, parallel with walls.
4. All joints shall be uniform in width.
5. Locate expansion joints in the tilework:
   a. Over construction or expansion joints in the backing.
   b. Where backing materials change or change directions.
   c. At wall/floor intersections.
   d. Exterior work:
      1) Not more than 8 - 12 feet in each direction.
   e. Interior work:
      1) Not more than 20 - 25 feet in each direction.
         a) Interior tilework exposed to direct sunlight or moisture: 8 to 12 feet in each direction.
         b) Above ground concrete slab substrate: 8 to 12 feet in each direction.
6. Movement/expansion joint width sizes:
   a. Working Butt Joints 1/4 inch minimum.
   b. Working Lap Joints 1/8 inch minimum.

D. Flatness and Lippage:
1. Maximum lippage between adjacent units: 1/32 inch.

E. Tile System Installations:

1. Interior Floor:
   a. System IFA: Concrete Sub-Floor, thin-set installation: **SYS-IFA.**
      1) Use: Dry or Limited water exposure.
      2) Method: Dry-set Mortar or Latex-Portland Cement Mortar.
      3) Detail Standard: TCNA F113-, 3/32" thin-set Dry-set or Latex-Portland Cement Mortar, Bond Coat, Tile, Grout.
      4) Installation Standard:
         a) Tile: ANSI A 108.5.
         b) Grout: ANSI A 108.10.
   b. System IFB: Concrete Sub-Floor, mortar bed installation **SYS-IFB.**
      1) Use: Dry or Wet (Kitchens and Toilets).
      2) Method: Cement Mortar.
      3) Detail Standard: TCNA F114 - Cleavage Membrane, Reinforcing, 1-1/4" to 2"- Mortar Bed, Bond Coat, Tile, Epoxy Grout.
      4) Flush Grout with tile surface at kitchen floors only.
      5) Installation Standard:
         a) Tile: ANSI A 108.1B.
         b) Epoxy Grout: ANSI A 108.6.
   c. System IFC: Concrete Sub-Floor, shower receptor mortar bed installation: **SYS-IFC.**
      1) Use: Wet Exposure (Showers).
      2) Method: Cement Mortar.
      3) Detail Standard: TCNA B414 - Tile or Stone, Shower Membrane, 1" to 1-3/4" Reinforced Mortar Bed, Bond Coat Tile, Grout.
      4) Installation Standard:
         a) Tile: ANSI A 108.1B.

b) Grout: ANSI A 108.10.
c) Shower Pan Membrane ANSI A108.01-3.6

d. System IFD: Concrete Sub-Floor, Cementitious Backer Installation **SYS-IFD**.
1) Use: Wet Exposure (Showers).
2) Method: Latex Portland Cement Mortar.
3) Detail Standard: TCNA B 415 - shower floor membrane, cementitous backer unit over Wood or Metal studs or fiber cement underlayment, reinforced mortar bed, tile.
4) Installation Standard:
a) Tile: ANSI A 108.5.
b) Grout: ANSI A 108.10.
c) Shower Pan Membrane ANSI A108.01-3.6.

2. Interior Wall:

a. System IWA: Masonry or Concrete Walls, thin-set installation **SYS-IWA**.
1) Use: Dry or Limited Water Exposure (Toilets).
2) Method: Cement Mortar.
3) Detail Standard: TCNA W202I - 3/32" Thin-Set Mortar Bed Bond Coat, Tile, Epoxy Grout.
4) Installation Standard:
a) Tile ANSI A 108.5.
b) Epoxy Grout ANSI A 108.6.

b. System IWB: Masonry or Concrete Walls, mortar bed installation **SYS-IWB.**
1) Use: Dry or Limited Water Exposure (Toilets).
2) Method: Cement Mortar, Bonded.
3) Detail Standard: TCNA W211 - 3/8" to 3/4" Mortar Bed, Bond Coat, Tile, Grout.
4) Installation Standard:
a) Tile ANSI A 108.1A, 1B, or 1C.
b) Grout ANSI A 108.10.

c. System IWC: Masonry or Concrete Walls, Mortar bed installation **SYS-IWC.**
1) Use: Wet Exposure (Showers)
2) Method: Cement Mortar.
3) Detail Standard: TCNA W221 - Membrane, Metal Lath, 3/4" to 1 1/2" Scratch Coat and Epoxy Mortar Bed, Bond Coat, Tile, Epoxy Grout.
4) Installation Standard:
a) Tile ANSI A 108.1B.
b) Epoxy Grout ANSI A 108.6.
c) Waterproof membrane ANSI A108.13.

d. System IWD: Gypsum Board Wall, thin-set installation **SYS-IWD**.
1) Use: Dry Exposure.
2) Method: Dry-Set or Latex-Portland Cement Mortar.
3) Detail Standard: TCNA W243 - Water Resistant Gypsum Board, 3/32" Thin-Set Dry-Set or Latex-Portland Cement Mortar, Bond Coat, Tile, Grout.
4) Installation Standard:
a) Tile ANSI A 108.5.
b) Grout ANSI A 108.10.

e. System IWD.2: Cement Backer Unit, thin-set installation **SYS-IWD.2**.
1) Use: Dry Exposure.
2) Method: Dry-Set or Latex-Portland Cement Mortar.
3) Detail Standard: TCNA W244C – Cement Backer Board, 3/32" Thin-Set Dry-Set or Latex-Portland Cement Mortar, Bond Coat, Tile, Grout.
4) Installation Standard:
a) Tile ANSI A 108.5.

b) Grout ANSI A 108.10.

f. System IWE: Wood Stud Walls, mortar bed installation **SYS-IWE.**

1) Use: Dry or Wet Exposures (Kitchen, Toilets and Showers).

2) Method: Cement Mortar.

3) Detail Standard: TCNA W231 - Cleavage Membrane, Metal Lath, 3/4" to 1-1/2" Scratch Coat and Mortar Bed, Bond Coat, Tile, Grout.

4) Installation Standard:

a) Tile ANSI A 108.1B.

b) Grout ANSI A 108.10.

c) Waterproof membrane ANSI A108.13.

g. System IWF: Metal Stud Walls, mortar bed installation **SYS-IWF**.

1) Use: Dry or Wet Exposure (Kitchen, Toilets and Showers).

2) Method: Cement Mortar.

3) Detail Standard: TCNA W241 - Cleavage Membrane, Metal Lath, 3/4" to 1" Scratch Coat and Mortar Bed, Bond Coat, Tile, Grout.

4) Installation Standard:

a) Waterproof membrane ANSI A108.13.

b) Cured Mortar Bed.

c) Tile ANSI A 108.1B.

d) Grout ANSI A 108.10.

3. Sealer Application:

a. For tile and grout sealers, follow manufacturer's written recommendations and procedures, at application rates recommended by the label on the material container.

b. Apply penetrating grout sealer and cure in accordance with tile manufacturer's written recommendations for the resistance of moisture penetration into the grout surface.

c. For Stone Tile and Stone Grout sealers, apply at a rate of 500 to 1,500 sq. ft. per coat per gallon, depending on type of stone (slate), porosity and texture of the surface, temperature, humidity and method of application.

d. For exterior Stone Tile applications, provide two coats of sealer per manufacturer's written recommended rate of application, allowing the proper time between coats for curing (30 minutes) as recommended by the manufacturer.

1) Protect newly coated surface from traffic and moisture for a period of twelve hours.

F. Curing:

1. Apply Curing Sheet over all tiled surfaces.

a. Lap sheets 4 inches minimum and seal against escape of moisture.

b. Leave Curing Sheets in place a minimum of 3 days.

3.4 ADJUSTING AND CLEANING

A. Remove and replace tile that is damaged or that does not match adjoining tile. Provide new matching units, installed as specified and in a manner to eliminate evidence of replacement.

B. Clean any soiled surfaces immediately.

C. Finish shall be clean and ready for the application of any additional finishes.

D. In accordance with manufacturer's written instructions and recommendations.

E. Wash down cured tile work with cleaner mixed and applied in accordance with manufacturer's written instructions.

F. Rinse tile-work thoroughly, with clean water, and polish with soft-cloth.

3.5 PROTECTION

A. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear. If recommended by tile manufacturer, apply coat of neutral protective cleaner to completed tile walls and floors.

B. Protect newly installed work from freezing for 24 hours after erection, installation or application.

C. Prohibit foot and wheel traffic from tiled floors for at least seven days after grouting is completed.

D. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer, which ensures the work of this section being without damage or deterioration until the time of Substantial Completion.

END OF SECTION

SECTION 10 44 00 – FIRE PROTECTION SPECIALTIES

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Provide all material, labor, equipment and services necessary to furnish and install Fire Protection Specialties, accessories and other related items necessary to complete the Project as indicated by the Contract Documents unless specifically excluded.

B. Related Sections: The following Sections contain requirements that relate to this Section:
   1. DIVISION 00 SPECIFICATION SECTIONS.
   2. DIVISION 01 SPECIFICATION SECTIONS.
   3. 04 22 00 CONCRETE MASONRY UNITS
   4. 09 22 16 METAL FRAMING
   5. 09 29 00 GYPSUM BOARD
   6. 09 91 00 PAINTING
   7. SPECIFICATION SECTIONS IN THE FACILITY SERVICES SUBGROUP.

1.2 REFERENCES

A. Standards:
   1. In accordance with the following standards:
      a. NAAMM National Association of Architectural Metal Manufacturers

1.3 SUBMITTALS

A. Submit in accordance with Specification Section - SUBMITTAL PROCEDURES.
   1. Product Data, indicating Project, location in Project for each Model Number for Fire Extinguishers, Fire Blankets, Cabinets, Doors and Trim

1.4 QUALITY ASSURANCE

A. Qualifications:
   1. Installer Qualifications:
      a. Engage an experienced Installer who has successfully completed three [**3**] projects of similar scope and size to that indicated for this Project.
   2. Manufacturer/Supplier Qualifications:
      a. Firm experienced in successfully producing/supplying products similar to that indicated for this Project, with sufficient production/supply capacity to produce/supply required units without causing delay in the work.

B. Regulatory Requirements:
   1. In accordance with Specification Section - REGULATORY REQUIREMENTS, and the following:
      a. NFPA National Fire Protection Association (NFPA 10).

1.5 WARRANTY

A. Contractor's General Warranty:
   1. In accordance with Specification Section - WARRANTIES.

B. Manufacturer's Warranty:
   1. In accordance with manufacturer's written standard warranty:

a. Warranty Period One (1) Year.

2. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of portable fire extinguishers that fail in materials or workmanship within specified warranty period.
   a. Failures include, but are not limited to, the following:
      1) Failure of hydrostatic test according to NFPA 10.
      2) Faulty operation of valves or release levers.
         a) Warranty Period: Six (6) years from date of Substantial Completion.

C. Installer's Warranty:
   1. In accordance with the terms of the Specification Section - WARRANTIES:
      a. Warranty periodOne (1) Year.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. These products listed herein establish the size, pattern, color range and function selected by the Architect for this Project. Manufacturers that are listed as acceptable alternative manufacturers and substitutions must still comply with the requirements of this project and the products listed in order to be approved as an equivalent during the Submittal Process. If the acceptable alternative manufacturers listed or substitutions are not approved during the Submittal Process due to non-compliance with the contract documents, then the Contractor shall submit product specified.
   1. Specified product manufacturer, or approved equivalent:
      a. LARSEN'S MANUFACTURING CO.
         1) WB-1 at Kitchens:
            a) Bracket Model #1007.
            b) Fire Extinguisher Model #WC-6L.
      b. Acceptable alternative manufacturer:
         1) JL INDUSTRIES
   2. Products from other manufacturers not listed must submit in accordance with Specification Section - SUBSTITUTION PROCEDURES.

2.2 MANUFACTURED UNITS

A. Bracket and Extinguisher Type:
   1. Surface mounted bracket Type WB-1.
      a. Kitchen Locations:
         1) Provide Fire Extinguisher Model No. WC-6L (Wet Chemical) with a UL Rating of 2A:K.
         2) Provide extinguisher bracket Model No. 1007, constructed of heavy gage steel with a white baked enamel finish.
      b. Provide backing in wall for attachment of bracket(s).

B.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Site verification of conditions:

1. Prior to the execution of the work under this specification section, inspect the installed work executed under other sections of this Project Manual that affect the execution of work under this specification section.
   a. Examine walls and partitions for suitable framing depth and blocking where recessed and semi-recessed cabinets will be installed.
   b. Examine walls and partitions for suitable blocking where surface applied brackets will be installed.
   c. Examine fire extinguishers for proper charging and tagging.
      1) Remove and replace damaged, defective, or undercharged units.
2. Report unacceptable conditions to the Architect. Do not begin work until unacceptable conditions have been corrected.
3. Execution of work under this specification section shall constitute acceptance of existing conditions.

3.2 PREPARATION

A. Coordination:

1. Coordinate work under this specification section with work specified under other sections to ensure proper and adequate interface of work.

B. Protection:

1. Protect all adjacent surfaces from drips, spray, air pollution of surrounding environment, and other damage from work under this specification section.

C. Surface preparation:

1. Prepare surface in accordance with manufacturer's written instructions and recommendations.
2. Clean substrates of substances (oil, grease, rolling compounds, incompatible primers, loose mill scale, etc.) which could impair bond of materials specified within this section.

3.3 INSTALLATION

A. General:

1. In accordance with manufacturer's written instructions and recommendations unless specifically noted otherwise.
2. In accordance with approved submittals.
3. In accordance with Regulatory Requirements.
   a. Comply with all applicable ADA and CBC requirements in regards to accessible mounting heights.
4. Set plumb, level, and square.
5. Identification:
   a. Apply decals, vinyl lettering, or other identification devices at locations indicated.

B. Layout:

1. Lines shall be straight and true.

3.4 ADJUSTING

A. Test and adjust controls and safeties. Replace damaged or malfunctioning controls and equipment.

1. Replace cabinets that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

3.5 CLEANING

A. Clean in accordance with Specification Section - PROJECT CLOSEOUT.

1. Clean any soiled surfaces immediately.
2. In accordance with manufacturer's written instructions and recommendations.
   a. Remove temporary protective coverings and strippable films, if any, as security fire-protection specialties are installed, unless otherwise indicated in manufacturer's written installation instructions.
   b. Adjust cabinet doors to operate easily without binding. Verify that integral locking devices operate properly.
   c. On completion of cabinet installation, clean interior and exterior surfaces as recommended in writing by manufacturer.
   d. Touch up marred finishes, or replace cabinets that cannot be restored to factory-finished appearance. Use only materials and procedures recommended in writing or furnished by cabinet manufacturer.

3.6 PROTECTION

A. Protection from traffic:

1. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer, which ensures the work of this section being without damage or deterioration until the time of Substantial Completion.

END OF SECTION

SECTION 11 40 00– FOOD SERVICE EQUIPMENT

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Provide all material labor, equipment and services necessary to completely install all Food Service Equipment materials, accessories and other related items necessary to complete the Project as indicated by the Contract Documents.

B. The work referred to in this section consists of furnishing all labor and material required to provide and deliver all food service equipment hereinafter specified into the building, uncrate, assemble, hang, set in place, level, and completely install, 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.
   1. The equipment and its component parts shall be new and unused. All items of standard manufactured equipment shall be current models at the time of delivery. Parts subject to wear, breakage, or distortion shall be accessible for adjustment, replacement and repair.
   2. Each refrigeration items specification is written to provide minimum specifications and scope of work. Refrigeration equipment shall be designed and installed to maintain the following general temperature unless otherwise specified.

a.	Walk-In Refrigerators	1.7°C / 35°F
b.	Walk-In Freezers	-23.2°C / -10°F
c.	Reach-In Refrigerators	1.7°C / 35°F
d.	Reach-In Freezers	-23.2°C / -10°F
e.	Undercounter Refrigerators	1.7°C / 35°F
f.	Undercounter Freezers	-23.2°C / -10°F
g.	Cold Pan	5°C / 41°F

   3. The materials or products specified herein by trade names, manufacturer’s name or catalog number shall be provided as specified. Substitutions will not be permitted unless approved by owner's representative in writing no later than 10 days prior to bidding. This stipulation applies to all equipment and materials. All substitutions or alternates will be expected to perform in all respects as well as the original specification. Should no request for substitution be received and approved as listed above, the project is to be provided as specified.
   4. The food service equipment contractor shall be responsible for all costs associated with the acceptable alternate or approved alternate items, if the item requires additional space or specific utilities that differ from specifications or drawings. The FSEC is responsible for all coordination, documentation and costs associated with any alternate item that was not submitted for approval and accepted by the consultant prior to bid. The FSEC shall be responsible for any costs associated with building changes, utility changes and drawings changes.

C. Coordinate Owner and Vendor-supplied equipment noted on the drawings or in the specifications as NIFSEC, "not in food service equipment contract." 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.

D. Bidders shall carefully examine the specifications and the project site including location and condition of existing equipment to determine cost for each "Existing-Reset" and "Existing-Modify" item to cover removal, modification (including materials), cleaning, inspection for damage, repair and resetting.

E. Field measurements shall be made prior to fabrication or installation of any equipment item.

F. 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 workman-ship and shall include welded sleeves, collars, ferrules and escutcheons.

G. 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.

H. 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.

I. Food Service Equipment Contractor shall be responsible for coordinating with the Architect and Contractor in submitting all applicable documents.

J. All bidders shall submit with their costing a list of the subcontractors that are included in their bids and a complete "schedule of values" for all equipment and labor.

K. Related Sections: The following Sections contain requirements that relate to this Section:
1. DIVISION 00 SPECIFICATION SECTIONS.
2. DIVISION 01 SPECIFICATION SECTIONS.
3. 06 41 23 MODULAR CASEWORK
4. 07 60 00 SHEET METAL
5. 09 22 16 METAL FRAMING
6. 09 24 00 CEMENT PLASTER
7. 09 29 00 GYPSUM BOARD
8. 09 30 13 TILE
9. SPECIFICATION SECTIONS IN THE FACILITY SERVICES SUBGROUP.
   a. Refer to Division 22 Sections for 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.
   b. Refer to Division 23 Sections 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.
      1) 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.
   c. Refer to Division 26 & 28 Sections for connections to fire alarm systems, wiring, disconnects, and other electrical materials required to complete food service equipment installation.
      1) All electric services including wiring to, and final connections to, the fixtures except, as specified differently in the specifications, drawings, or herein.

1.2 DEFINITIONS

A. Terminology Standard: Refer to NSF 2, "Food Equipment," NSF 4, Heated Cabinets, NSF 7, Refrigerated 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.
   1. FSEC: Food Service Equipment Contractor
   2. Owner-Furnished Equipment: Where indicated, Owner will furnish equipment items.
   3. Vendor-Furnished Equipment: Where indicated the Owner's or operator's vendor will furnish equipment items.
   4. NIFSEC: Not Included in Food Service Equipment Contract.

1.3 REFERENCES

A. Standards:
   1. In accordance with the following standards:
      a. AGA American Gas Association
      b. AISI American Iron and Steel Institute
      c. ASHRAE American Society of Heating, Refrigerating and Air-conditioning Engineers.
      d. AWS American Welding Society
      e. NSF National Sanitation Foundation may have occurred after the preparation of this specification section.
      f. UL Underwriters Laboratories

1.4 SYSTEM DESCRIPTION

A. Performance Requirements: Provide all material. labor, equipment and services necessary to completely install all Food Service Equipment materials, accessories and other related items necessary to complete the Project as indicated by the Contract Documents.

1.5 SUBMITTALS

A. Submit in accordance with Specification Section - SUBMITTAL PROCEDURES:
   1. General:
      a. Regardless of drawing formats provided it will remain the responsibility of equipment supplier to develop submittals in accordance with the Specific Conditions and assume all required responsibilities there to.
      b. The consultant is not to be liable for errors or omissions by the FSEC¢s use of electronic data provided by the Consultant or the development of date used in the submittal approval process.
      c. Checking product data, rough-in drawings, wall backing drawings, shop drawings, and refrigeration drawings by Designer is for design concept only, and does not relieve the Food Service Equipment Contractor of responsibility for compliance with Contract Documents, verification of utilities with equipment requirements for conformity and location, verification of all dimensions of equipment and building conditions or reasonable adjustments due to deviations.
      d. The Food Service Equipment Contractor shall review and provide an affidavit with each submittal that such review has been completed by an authorized agent of the contractor.
   2. Product Data.

a. Include construction details, material descriptions, fabrication methods, dimensions of individual components and profiles, hardware, finishes, and operating instructions.

3. Shop Drawings.
   a. Submit shop drawings from manufacturer and fabricator detailing equipment assemblies and indicating dimensions, weights, loadings, required clearances, method of field assembly, components, and location and size of each field connection.
4. Quality Assurance/Control Submittals:
   a. Manufacturer's Written Instructions:
      1) Submit three (3) copies of manufacturer's written instructions.
   b. Service Representative Certification:
      1) Submit three (3) copies of the Certification of the Service Representative for the Food Service Equipment within a 50-mile radius of the Project Site.
5. Closeout Submittals in accordance with Specification Sections in Division One:
   a. Maintenance Data in accordance with Specification Section - PROJECT CLOSEOUT.
   b. Operation Data in accordance with Specification Section - PROJECT CLOSEOUT.
   c. Project Documents in accordance with Specification Section - PROJECT DOCUMENTS.
   d. Warranty in accordance with Specification Section -WARRANTIES, and of this specification section.

1.6 QUALITY ASSURANCE

A. Qualifications:
   1. Material Qualifications:
      a. Equipment shall be designed in accordance with NSF and AGA and Bear the NSF Seal of Approval and be AGA certified.
   2. Installer Qualifications:
      a. Engage an experienced Installer who has successfully completed three (3) projects of similar scope and size to that indicated for this Project.
      b. Walk-In Cooler / Freezer Equipment Installer shall be within a 50 mile radius of the Project Site for prompt service during the Installer's Warranty Period..
   3. Manufacturer/Supplier Qualifications:
      a. Firm experienced in successfully producing/supplying products similar to that indicated for this Project, with sufficient production/supply capacity to produce/supply required units without causing delay in the work.
      b. Manufacturers and models listed in the Schedule of Food Service Equipment are used to establish minimum standards for design, performance and construction intended.
         1) Fabricators or custom-built equipment shall have qualified personnel, plant and equipment suitable to produce the specified items within the time requirement of the construction schedule.
      c. Walk-In Cooler / Freezer Equipment Manufacturer shall have and maintain a Certified Service Representative within a 50-mile radius of the Project Site for any warranty issues that may arise during the equipment warranty period.

B. Regulatory Requirements:
   1. In accordance with Specification Section - REGULATORY REQUIREMENTS, and the following:
      a. CHD Local County Health Department in which the Project is located.

C. Meetings:
1. Pre- Installation: Scheduled by the Contractor prior to start of equipment installation.
   a. Coordinate the work with all other related work.
   b. Identify any potential problems that may impede planned progress and proper installation of work regarding quality of installation and warranty requirements.
2. Progress: Scheduled by the Contractor during the performance of the work.
   a. Review for proper installation of work progress.
   b. Identify any installation problems and acceptable corrective measures.
   c. Identify any measures to maintain or regain project schedule if necessary.
3. Completion: Scheduled by the Contractor upon proper completion of the work.
   a. Inspect and identify any problems that may impede issuance of warranties or guaranties.
   b. Maintain installed work until the Notice of Substantial Completion has been executed.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Packing, shipping, handling, and unloading:
1. Products shall be individually wrapped.
2. Products shall be handled in such a manner as to assure that they are free from dents, scratches and other damage.

B. Acceptance at Site:
1. Products must be in manufacturer's original unopened containers with labels indicating brand name, model, and grade.
2. No equipment shall be delivered directly to the hob site prior to having an installation crew on the premises, except with the written permission of the Architect or the Project Superintendent.
3. Fabricated equipment shall be shipped in sections to facilitate entry into the building.
4. Damaged products will not be accepted.

C. Storage and protection:
1. Products shall be stored in a dry, protected area.
2. Products shall be stored in locked storage building.
3. Products shall be stored above ground on level platforms, six (6) inches above ground, allowing air circulation under stacked units.
4. Cover materials with protective waterproof covering providing for adequate air circulation and ventilation.

1.8 PROJECT CONDITIONS

A. Existing Conditions:
1. Examine site and compare it with the drawings and specifications. Thoroughly investigate and verify conditions under which the work is to be performed. No allowance will be made for extra work resulting from negligence or failure to be acquainted with all available information concerning conditions necessary to estimate the difficulty or cost of the work.
2. Field Measurements:
   a. Take and be responsible for filed measurements as required. Report any significant differences between field dimensions and Drawings to Architect prior to performing Work.
3. All Work within space shall be complete.

1.9 WARRANTY

A. Contractor's General Warranty:
   1. In accordance with Specification Section - WARRANTIES.

B. Manufacturer's Warranty:
   1. In accordance with manufacturer's written standard equipment warranty for each item:
      a. Warranty Period One (1) Year.
      b. Manufacturer's to provide standard equipment warranties on all equipment if it exceeds the State of California Standard One Year Construction Warranties.

C. Installer's Warranty:
   1. In accordance with the terms of the Specification Section - WARRANTIES:
      a. Warranty period One (1) Year.
      b. Installers shall maintain an area Service Representative for the duration of the Service Warranty Period.
         1) Installer of the Walk-In Cooler / Freezer Equipment shall provide an area Service Representative within 50 miles of the Project Site.

1.10 OWNER'S INSTRUCTIONS

A. Provide the services of a factory-authorized service representative to provide start-up service and to demonstrate and train the Owner's maintenance personnel as specified below:
   1. Test and adjust controls and any safeties. Replace damaged or malfunctioning controls and equipment.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. These products listed herein establish the size, pattern, color range and function selected by the Architect for this Project. Manufacturers that are listed as acceptable alternative manufacturers and substitutions must still comply with the requirements of this project and the products listed in order to be approved as an equivalent during the Submittal Process. If the acceptable alternative manufacturers listed or substitutions are not approved during the Submittal Process due to non-compliance with the contract documents, then the Contractor shall submit product specified.
   1. Specified product manufacturer:
      a. ADVANCE TABCO.
      b. BUSBOY BY KENLIN, INC.
      c. DUKE MANUFACTURING CO.
      d. GROEN.
      e. HOBART.
      f. KOLPAK MANUFACTURING CO.
      g. METRO.
      h. THE MONTAGUE COMPANY.
      i. PITCO FRIALATOR, INC.
      j. SCOTSMAN.
      k. SERVOLIFT EASTERN CORPORATION.
      l. SUB-ZERO.
      m. TRAULSEN & CO., INC.
      n. WELLS MANFUACTRING COMPANY.

o. WOLF RANGE COMPANY.

2. Many of the specified product manufacturers listed above are distributed through or could be found through:
   a. EAGLE/FRIZZELL & ASSOCIATES.
   b. POULOS & ASSOCIATES.

B. Products from other manufacturers not listed must submit in accordance with Specification Section - SUBSTITUTION PROCEDURES.

2.2 MATERIALS

A. Materials for Fabricated Food Service Equipment:
   1. General Requirements:
      a. Manufactured Food Service Equipment to be incorporated as an integral part of Fabricated Food Service Equipment where indicated.
      b. Provide opening as required for all faucets and provide all faucets as specified.
      c. Provide all sink-drains complete with 6-inch tailpiece.
      d. All work straight and uniform, of proper strength and accurately fitted together.
      e. Level and smooth all plain work.
      f. All joints to be welded, ground smooth, buffed to No. 4 finish and in accordance with AWS.
      g. Fabricate to field dimensions. Significant discrepancies with Drawings shall be reported to Architect prior to installation.
      h. Slope drainboards 1/8 inch per foot to sink.
      i. Slope sink bottoms 1/2 inch to drain for positive drainage.
      j. All exposed edges of metal shall be ground round and smooth.
      k. Sinks, disposer cones and similar to items shall be shop welded integral with top.
   2. Materials:
      a. Stainless Steel in accordance with AISI 18-8, Type 302 with No. 4 finish on all exposed surfaces.
   3. Construction:
      a. Counter Tops and Sinks: 14 gage stainless steel unless otherwise noted.
      b. Shelves: 16 gage stainless steel unless otherwise noted.
         1) Under shelves shall be galvanized iron.
      c. Legs:
         1) 1-5/8 inch outside diameter, 16 gage galvanized iron tuning with galvanized iron leg sockets and concealed thread galvanized iron bullet feet.
         2) Drill bottom of feet to receive floor anchor.
      d. Supports and Stiffeners: 14 gage stainless steel metal channels.
      e. Spacer: 2 inch wide, 10gage stainless steel Z.
      f. Fasteners Non-corrosive and tamper proof.

2.3 MANUFACTURED UNITS

A. General:
   1. All plumbing and electrical which is an integral part of manufactured Food Service Equipment shall be complete and operable.
   2. All plumbing supply connections shall be complete with female fittings.
   3. All drains shall be complete with 6-inch tail piece.
   4. All mechanical vents shall be complete with required dampers and ductwork extending a minimum of 3 inches from unit.
   5. All motors shall be complete with on-off switch and starter.

6. All electrical connections shall be complete to outlet or junctions box. Connection to junction box and plug to outlet specified in Division 26, Electrical.
7. All equipment shall have NSF seal of approval.
8. Furnish all accessories and components listed in manufacturer's literature as standard with food service equipment specified by model or catalog number.
9. Furnish additional accessories or modifications to equipment as specified in the Fabricated Food Service Equipment Schedule at the end of this section.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Site verification of conditions:
1. Prior to the execution of the work under this specification section, inspect the installed work executed under other specification sections of this Project Manual which affect the execution of work under this specification section.
2. Report unacceptable conditions to the Architect. Do not begin work until unacceptable conditions have been corrected.
3. Execution of work under this specification section shall constitute acceptance of existing conditions.

3.2 PREPARATION

A. Coordination:
1. Coordinate work under this specification section with work specified under other specification sections to ensure proper and adequate interface of work specified under this specification section.

3.3 INSTALLATION

A. General:
1. In accordance with manufacturer's written instructions and recommendations unless specifically noted otherwise.
2. In accordance with approved shop drawings.
3. In accordance with Regulatory Requirements and NSF.
4. Set plumb, level and square.
5. Accurately set all equipment.
6. Integrate different items as required for proper interface of equipment.

B. Layout:
1. Lines shall be straight and true.

3.4 ADJUSTING

A. Adjusting:
1. Food Service Equipment representative shall be present at mechanical and electrical check to test all food service equipment.
2. Test and adjust controls and safeties.
3. Replace damaged or malfunctioning controls and equipment.

3.5 CLEANING

A. Clean in accordance with Specification Section - PROJECT CLOSEOUT.
1. Clean any soiled surfaces at the end of each day, minimum.
2. Finish shall be clean and ready for the application of any additional finishes.
3. In accordance with manufacturer's written instructions and recommendations.

3.6 DEMONSTRATION

A. In accordance with Specification Section - PROJECT CLOSEOUT.
1. Provide the services of a factory-authorized service representative to provide start-up service and to demonstrate and train Owner's maintenance personnel as specified below.
   a. Schedule training with the Owner's maintenance personnel with at least seven (7) days advance notice.
   b. Train Owner's maintenance personnel on procedures and schedules related to start-up and shut-down, troubleshooting, servicing, and preventative maintenance.)
   c. Review data in "Operating and Maintenance Manuals." Refer to Specification Section – PROJECT CLOSEOUT.

3.7 MANUFACTURED FOOD SERVICE EQUIPMENT SCHEDULE

A. ROLL IN BLAST CHILLER AND SHOCK FREEZER Item No. 1.
1. Model No. MF 250.2 as manufactured by IRINOX
2. Size: Approximately 62" long x 63" wide x 100" high.
3. Finish: Stainless Steel.
4. Power: 208 volt, 60 cycle, 3 phase.

B. COMBINATION STEAMER & CONVECTION OVEN Item No. 2.
1. Model NO. iCombi Pro 20-full size E as manufactured by RATIONAL AG
2. Size: Approximately 44" long x 42" wide x 73" high.
3. Finish: Stainless Steel
4. Power: 208 volt, 60 cycle, 3 phase.

C. TILTING SKILLET Item No. 3.
1. Model No. iVario Pro L as manufactured by RATIONAL
2. Size: Approximately 35" long x 41" wide x 24" high.
3. Finish: Stainless Steel
4. Power: 208 volt, 60 cycle, 3 phase.

D. REACH-IN FREEZER Item No. 4
1. Model No. T-49FG-HC~FGD01 as manufactured by TRUE MANUFACTURING CO.
2. Size Approximately 30" long x 54" wide x 78" high.
3. Finish: Stainless Steel.
4. Power: 115 volt, 60 cycle, single phase.

E. REACH-IN REFRIGERATOR Item No. 5.
1. Model No. T-49G-4-HC~FGD01 as manufactured by TRUE MANUFACTURING CO.
2. Size: Approximately 30" long x 54" wide x 78" high.
3. Finish: Stainless Steel cabinet and tanks.
4. Power: 115 volt, 60 cycle, single phase.

F. FOOD PREP 2 COMPARTMENT SINK Item No. 6.
1. Model No. 94-62-36-18RL as manufactured by ADVANCE TABCO.
2. Size: Approximately 31" long x 77" wide x 42" high .

3. Finish: Stainless steel.

G. KITCHEN FAUCET **Item No. 7.**

1. Model No. 445-DJ13-317XKABCP as manufactured by CHICAGO.
2. Size: Approximately 16” long x 8” wide x 6” high.
3. Finish: Chrome plated.

H. STAINLESS STEEL WORK COUNTER **Item No. 8.**

1. Model No. MS-366 with Undershelf as manufactured by ADVANCE TABCO.
2. Size: Approximately 72" long x 36" wide x 35" high.
   a. With Undershelf
3. Finish: Stainless Steel.

I. HAND SINK **Item No. 9.**

1. Model No. 7-PS-46 with splash mount extended “d” spout faucet with wrist handles, as manufactured by ADVANCE TABCO.
2. Size: Approximately 24" long x 14" wide x 27" high.
3. Finish: Stainless Steel.

J. CAMSHELVING WITH VENTED SHELVES **Item No. 10.**

1. Model No. CPU244872V4480 , as manufactured by CAMBRO.
2. Size: Approximately 24" long x 48" wide x 72" high.
3. Finish: Stainless Steel and Hardwood.

K. CAMSHELVING WITH VENTED SHELVES **Item No. 11.**

1. Model No. CPU246072V4480 as manufactured by the CAMBRO
2. Size: Approximately 24" long x 60" wide x 72" high.
3. Finish: Stainless Steel.

L. GREASE HOOD **Item No. 12.**

1. See Mechanical.

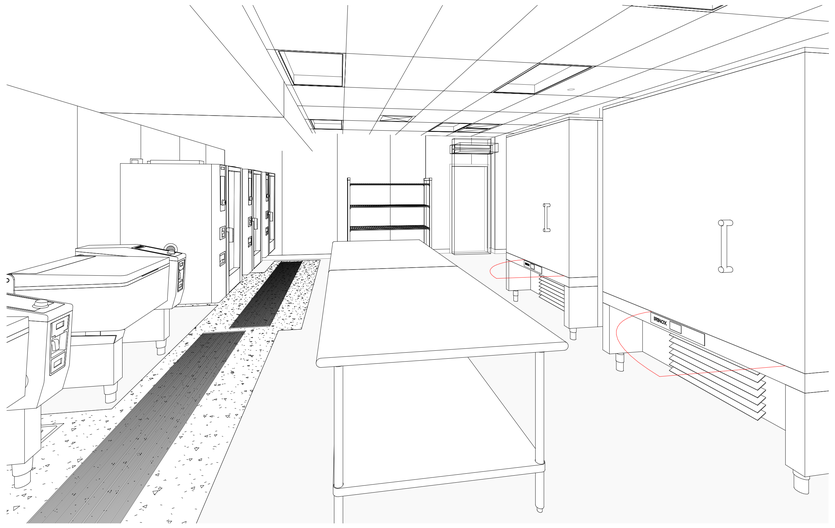
M. GREASE HOOD **Item No. 13.**

1. See Mechanical.

N. FLY FAN **Item No. 14.**

1. See Mechanical.

END OF SECTION



GENERAL INFORMATION

G000 COVER SHEET
G102 REGULATORY FLOOR PLAN

ARCHITECTURAL

SITE DEVELOPMENT

SD/A101 DEMOLITION SITE PLAN
SD/A102 PROPOSED SITE PLAN

TYPICAL INFORMATION

X/A101 WALL ASSEMBLIES
X/A201 INTERIOR FINISH SCHEDULE
X/A301 MODULAR CASEWORK SCHEDULE AND DETAILS
X/A311 CUSTOM CASEWORK DETAILS
X/A401 OPENING SCHEDULES
X/A501 EXTERIOR DETAILS
X/A601 INTERIOR DETAILS
X/A602 INTERIOR DETAILS
X/A603 INTERIOR DETAILS
X/A604 KITCHEN EQUIPMENT DETAILS

BUILDING A

A/A100 DEMOLITION FLOOR PLAN
A/A101 FLOOR PLAN
A/A102 KITCHEN EQUIPMENT PLAN
A/A103 ENLARGED OFFICE PLANS
A/A200 DEMOLITION REFLECTED CEILING PLAN
A/A201 REFLECTED CEILING PLAN
A/A300 DEMOLITION ROOF PLAN
A/A301 ROOF PLAN
A/A501 SECTIONS
A/A601 INTERIOR ELEVATIONS- ROOMS 101-104
A/A602 INTERIOR ELEVATIONS- ROOMS 117-120
A/A801 INTERIOR DESIGN- ACCENT PAINT PLAN

STRUCTURAL

X/S101 TYPICAL PROJECT NOTES & DETAILS
X/S102 TYPICAL LIGHT GAUGE NOTES & DETAILS
S201 FOUNDATION PLAN
S301 ROOF FRAMING PLAN
S401 SECTIONS
S601 DETAILS

MECHANICAL

A/M200 OVERALL MECHANICAL FLOOR PLAN
A/M301 ENLARGED MECHANICAL DEMOLITION FLOOR PLAN
A/M302 ENLARGED PROPOSED MECHANICAL FLOOR PLAN
A/M310 PARTIAL MECHANICAL MEZZANINE PLAN
A/M500 MECHANICAL PARTIAL ROOF PLAN
X/M001 MECHANICAL SCHEDULES, LEGENDS, AND NOTES
X/M800 MECHANICAL DETAILS
X/M900 TITLE 24 DOCUMENTATION

PLUMBING

A/P100 OVERALL PLUMBING DEMOLITION PLAN
A/P110 OVERALL PROPOSED PLUMBING PLAN
A/P300 ENLARGED PLUMBING KITCHEN DEMOLITION PLAN
A/P310 ENLARGED PROPOSED KITCHEN PLUMBING PLAN
X/P001 PLUMBING SCHEDULES, LEGENDS, AND NOTES
X/P800 PLUMBING DETAILS

ELECTRICAL

SD/E101 SITE DEVELOPMENT - DEMOLITION ELECTRICAL SITE PLAN
SD/E102 SITE DEVELOPMENT - ELECTRICAL SITE PLAN
SD/E103 SITE DEVELOPMENT - PARTIAL ELECTRICAL SITE PLAN
X/E101 ELECTRICAL SYSTEMS - SYMBOL LEGEND, ABBREVIATIONS, AND NOTES
X/E102 ELECTRICAL SYSTEMS - SYMBOL LEGEND, ABBREVIATIONS, AND NOTES CONTINUED
X/E103 ELECTRICAL SYSTEMS - LIGHTING FIXTURE SCHEDULE
X/E104 ELECTRICAL SYSTEMS - ELECTRICAL SINGLE LINE DIAGRAM
X/E105 ELECTRICAL SYSTEMS - ELECTRICAL MECHANICAL SCHEDULES AND RISER DIAGRAMS
X/E106 ELECTRICAL SYSTEMS - PANEL SCHEDULES
X/E107 ELECTRICAL SYSTEMS - TYPICAL ELECTRICAL DETAILS
X/E108 ELECTRICAL SYSTEMS - TYPICAL ELECTRICAL DETAILS
X/E109 ELECTRICAL SYSTEMS - TYPICAL FIRE ALARM SYMBOL LEGEND, NOTES, AND DETAILS
X/E110 FIRE ALARM SYSTEMS - FIRE ALARM FLOOR PLAN - FIRST FLOOR
X/E111 TITLE 24 COMPLIANCE FORMS - POWER
X/E112 TITLE 24 COMPLIANCE FORMS - INDOOR LIGHTING
X/E113 ELECTRICAL SYSTEMS - DEMOLITION POWER AND SIGNAL FLOOR PLAN - FIRST FLOOR
X/E114 ELECTRICAL SYSTEMS - POWER AND SIGNAL FLOOR PLAN - FIRST FLOOR
X/E115 ELECTRICAL SYSTEMS - POWER AND SIGNAL FLOOR PLAN - SECOND FLOOR
X/E116 ELECTRICAL SYSTEMS - DEMOLITION LIGHTING FLOOR PLAN - FIRST FLOOR
X/E117 ELECTRICAL SYSTEMS - LIGHTING FLOOR PLAN - FIRST FLOOR
X/E118 ELECTRICAL SYSTEMS - EMERGENCY PHOTOMETRIC LIGHTING PLAN - FIRST FLOOR
X/E119 ELECTRICAL SYSTEMS - DEMOLITION ELECTRICAL ROOF PLAN
X/E120 ELECTRICAL SYSTEMS - ELECTRICAL ROOF PLAN

N14 Vicinity Map

All work shall be performed in accordance with current applicable codes and standards including, but not limited to, the following:

California Code of Regulations (CCR)
CCR-T5: Title 5-Education
CCR-T8: Title 8-Industrial Safety
CCR-T19: Title 19-Public Safety
CCR-Title 24:

Building Codes and Standards:

2022 California Building Standards Administrative Code (Part 1, Title 24, CCR)

2022 California Building Code, Volumes 1 and 2 (Part 2, Title 24, CCR)

2022 California Electrical Code (Part 3, Title 24, CCR)

2022 California Mechanical Code (Part 4, Title 24, CCR)

2022 California Plumbing Code (Part 5, Title 24, CCR)

2022 California Energy Code (Part 6, Title 24, CCR)

2022 California Elevator Safety Construction Code (Part 7, Title 24, CCR)

2022 California Fire Code, Part 9, Title 24, CCR)

2022 California Referenced Standards Code (Part 12, Title 24, CCR)

2022 California Green Building Standards Code

NFPA 13, 2022 Edition, The Installation of Automatic Sprinkler Systems

NFPA 14, 2016 Edition, Installation of Standpipe

NFPA 24, 2019 Edition, Installation of Private Fire Service Mains and their Appurtenances

NFPA 72, 2022 Edition, National Fire Alarm Code

J14 Applicable Codes

Notes:

1. The Contractor shall be responsible for the preparation and submittal of The Deferred Approval Items to The City of Madera Building Department for review and approval prior to the installation. The submittal shall comply with the requirements of Specification Section 013300: Submittals.
2. Installation of Deferred Approval items shall not be started until Contractor's drawing, specifications, and engineering calculations for the actual system(s) to be installed have been reviewed by the Architect and/or the Structural Engineer, and approved by The City of Madera Building Department.
3. Items listed below will be provided under seperate permits to be issued prior to framing inspection.

Description of Deferred Item
Fire Alarms
Fire Sprinklers

G14 Deferred Approval

PROJECT DATA

Project Location:	726 South Pine St. Madera, CA 93637
Owner:	Madera Unified School district 1902 Howard Dr. Madera, CA 92637
Occupancy:	Group F-1
Construction Type:	Type IIA, Fully Automatic Fire Sprinklered
Actual Building Area:	1st Floor = 16,710 SF 2nd Floor = 11,310 SF Total = 28,020 SF
Basic Allowable Area:	Per Floor = 75,000 SF Maximum Bldg. Height = 5 Stories Total Building = 375,000 SF
Allowable Area Increase:	200% due to Fully Automatic Fire Sprinklered System Per Floor: 58,290 SF Maximum Bldg. Height = 5 Stories, 85'-0" Total Building = 291,450 SF

PROJECT SCOPE

This project will consist of the demolition of existing office spaces and a conference room. New construction will include new office spaces, an addition to the existing production kitchen and related PG&E site upgrades.

B14 Project Description

ELECTRICAL
Borrelli And Associates, Inc.
2032 N. Gateway Blvd.
Fresno, CA 93727
(559) 252-4193

MECHANICAL / PLUMBING
Net Positive Consulting Engineers
5 River Park Pl. East
Fresno, CA 93720
(559) 840-7203

STRUCTURAL
Brooks Ransom Associates
7415 N Palm Ave Ste 100
Fresno, CA 93711
T (559) 449-8404
F (559) 449-8404

ARCHITECTURAL
Darden Architects, Inc.
6790 N. West Avenue
Fresno, CA 93711
T (559) 448-8051
F (559) 446-1765

Child Nutrition Kitchen

Madera Unified School District

769 S. Pine St. Madera, CA 93637

Darden Project Number: *2310*

Date: *09/16/24*

OSHPD No.:
OSHPD

Agency Approval

Project Information

darden architects
ARCHITECTURE
PLANNING
INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT MATTHEW R. HEISS No. C35878 Exp. 05-31-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
A	Addendum 1	09/16/24
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

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G000
AD2-AX01

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SYMBOLS

- Existing Wall
- Remove Existing Wall
- Remove Existing Building Item (See Demolition Note, Plumbing, Mechanical, and Electrical Drawings)
- Room name 101 — Room Designation
- E01 — Demolition Note Symbol
- Area not within the architectural scope of the Project.

NOTES

1. See Specifications section, SELECTIVE DEMOLITION, See Plumbing, Mechanical, and Electrical Drawings and Specifications
2. Remove materials, equipment, and finishes indicated by demolition key notes
3. All Concrete removed shall be within sawcut lines or Existing expansion/ control joint lines.
4. Coordinate removal of door hardware with HARDWARE in the specifications.
5. Where Demolition work is indicated, contractor shall remove and reinstall any or all items necessary for installation of new work. Existing area affected by demolition work shall be patched and repaired to match Existing construction.
6. Any damage resulting from the modernization activity shall be corrected at no additional expense to the owner and all surfaces cleaned and readied to receive new work.
7. Remove, cut, and patch work in a manner to minimize damage and to provide means of restoring products and finishes to original condition.
8. Where new work abuts or aligns with Existing, make a smooth and even transition. Patch work shall match Existing adjacent work in texture and appearance.
9. When Finished surfaces are cut so that a smooth transition with new work is not possible, terminate Existing surfaces along a straight line at a natural line of division and make recommendation to the architect.
10. Contractor to field verify all dimensions and existing floor and wall finishes prior to the commencement of work.
11. Refer to Hazerdous Materials Report prior to the commencment of work.

DEMOLITION NOTES

- E01 SELECTIVE DEMOLITION, Remove wall or portion of wall, refer to floor plan for extent
- E02 SELECTIVE DEMOLITION, Remove door and frame
- E03 SELECTIVE DEMOLITION, Remove window and frame
- E04 SELECTIVE DEMOLITION, Remove casework
- E05 SELECTIVE DEMOLITION, Remove flooring and base
- E06 SELECTIVE DEMOLITION, Remove floor and framing
- E07 SELECTIVE DEMOLITION, Remove stairs and framing
- E08 SELECTIVE DEMOLITION, Remove plumbing, see PLUMBING for more information
- E09 SELECTIVE DEMOLITION, Remove and reinstall equipment
- E10 SELECTIVE DEMOLITION, Remove and reinstall microwave
- E11 SELECTIVE DEMOLITION, Sawcut existing concrete as required for new Improvements, typical
- E12 SELECTIVE DEMOLITION, Remove existing fire extinguisher cabinet, salvage to owner
- E13 SELECTIVE DEMOLITION, Remove and dispose of modular casework base cabinets, uppers, and counter top

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

DEMOLITION FLOOR PLAN
Drawing

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LICENSED ARCHITECT MATTHEW R. HESS No. C35878 Exp. 05-31-08 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

	Designed Designer	Copyright 2022 Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: Author	A/A100
Project Number: 2310	Checked Checker	
Date: 09/16/24	Reviewed Approver	AD2-AX02

A1 — Demolition Floor Plan
1/8" = 1'-0"

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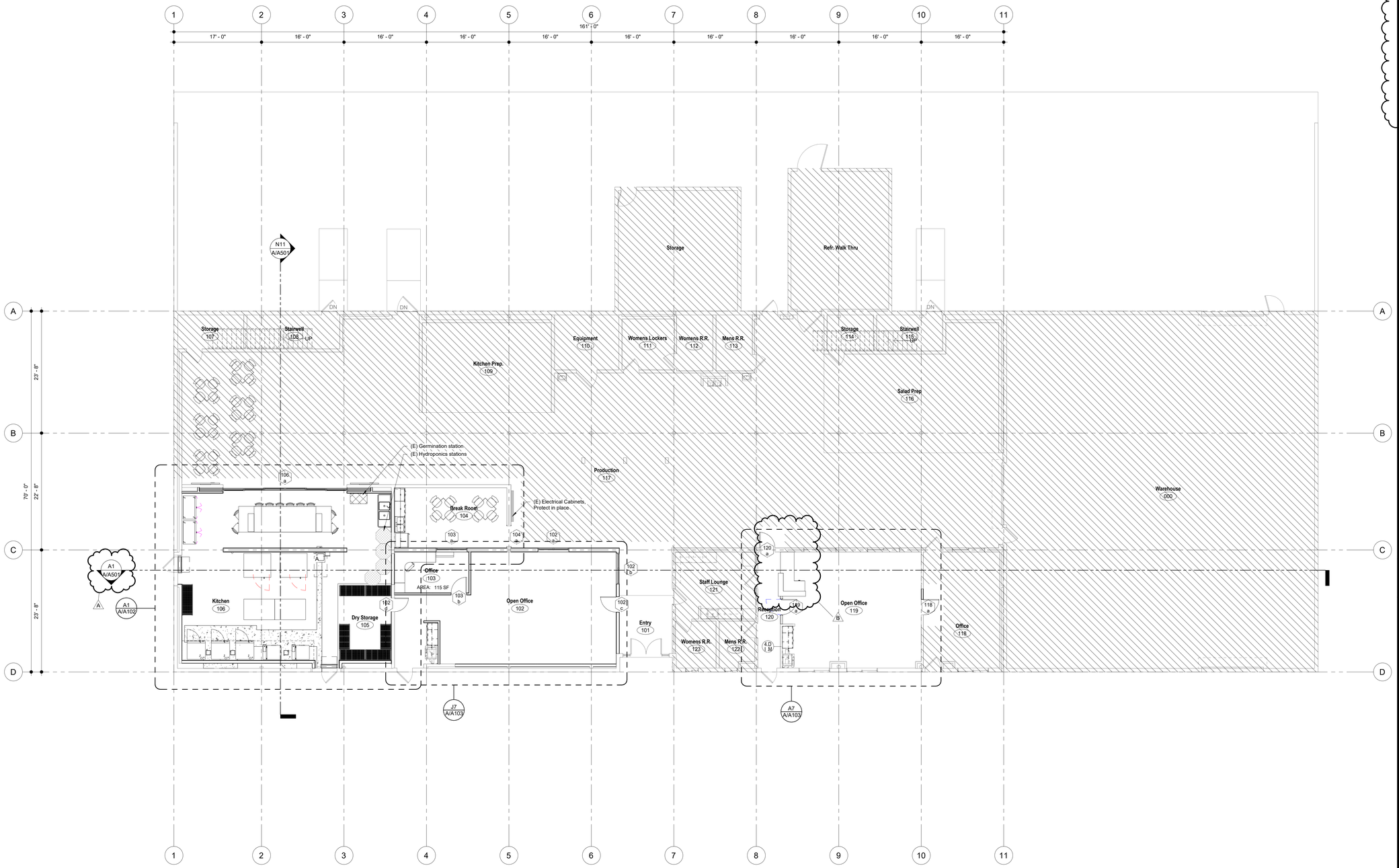

SYMBOLS

Stud Wall, Studs and Interior Wall materials continuous from floor to underside of floor or roof deck. Studs at 16" o.c. unless otherwise noted. Interior Wall material shall include Batt Insulation, Sound Deadening Board, Plywood Sheathing, Gypsum Board, and Cement Plaster/ Ceramic Tile setting bed where occurs.

Stud Wall. Studs and finish material continuous from floor to minimum 6" above ceiling. Studs to be braced to underside of roof framing or deck if not required to be continuous to roof framing or deck. Studs at 16"o.c. Unless Otherwise Noted. See Structural for bracing and extent of Structural Sheathing.

CAST-IN-PLACE CONCRETE, 4" Concrete Walk over 6" 90% Compacted Fill.

0 — Reference Grid

101 / a — Opening Group No. Refer to Door or Window Opening Schedules

Eq Mark — Equipment Item No. Refer to Equipment Schedule

Room name / 101 — Room Designation

/ # — Wall Assembly Symbols. Refer to Sheet X/A101

Reference Point

ABBREVIATIONS

FEBC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Type FEBC-1, Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinet at Rated Walls Where Stud Depth is Less than 6" and at Masonry Walls, See - / ---
FEC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Type FEC-1, Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls, See - / ---
FF	Face of Finish
FOC	Face of Concrete
FD	Floor Drain
FOM	Face of Masonry
FOS	Face of Stud
FS	Floor Sink
HB	Hose Bib
MO	Masonry Opening
UNO	Unless Noted Otherwise
RO	Rough Opening
VCT	RESILIENT FLOORING, Vinyl Composition Tile
Typ.	Typical
Sim.	Similar
OH	Opposite Hand

NOTES

1. All Exterior Walls shall be Wall Assembly Type 6.A / E.M Unless Noted Otherwise.
2. All Interior Walls shall be Wall Assembly Type 6.E / I.M Unless Noted Otherwise.
3. All Dimensions are to Face of Stud (FOS) or Center Line, Unless Noted Otherwise.
4. All Elevation Dimensions are above Finish Floor at each floor level, Unless Noted Otherwise.
5. Dimensions noted as "+/-" are nominal.
6. Floor Drains (FD) and Floor Sinks (FS) shall be set -3/4" and a min. of 3'-0" from nearest wall, Unless Noted Otherwise.
7. IDENTIFYING DEVICES, For Room Signage refer E11 / X/A601 to and Specifications
8. FIRE RESISTIVE ASSEMBLIES:
   a. All Through Penetrations and Wall Membrane Penetrations through Walls of Fire Resistive Construction shall be protected in accordance with their Fire Resistive Ratings.

   b. All Walls of Fire and/or Smoke Resistive Construction Shall Be Permanently Identified with Signs or Stenciling in lettering not less than 3 inches (76 mm) in. height with a minimum 3/8 inch (9.5 mm) stroke in a contrasting color incorporating the following wording; FIRE AND/OR SMOKE BARRIER "#" HOUR RATED. PROTECT ALL OPENINGS, Signs or Stenciling shall be located above ceilings on both sides of the wall, located 15'-0" from ends of wall and at intervals not to exceed 30'-0" horizontally along the wall or partition. Note: "#" indicates the hourly rating of the wall or partition.

G18 — Floor Plan Legend

No Scale

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Project

FLOOR PLAN

Drawing

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LICENSED ARCHITECT MATTHEW R. PERRY No. C35878 Exp. 06-30-26 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
A	Addendum 1	09/16/24
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

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Scale: 1/8" = 1'-0"	Drawn By: Author	A/A101
Project Number: 2310	Checked bChecker	AD2-AX03
Date: 09/16/24	ReviewedApprover	

A1 — FLOOR PLAN
1/8" = 1'-0"
Refer to F18 for Legend Symbols, Abbreviations and Notes

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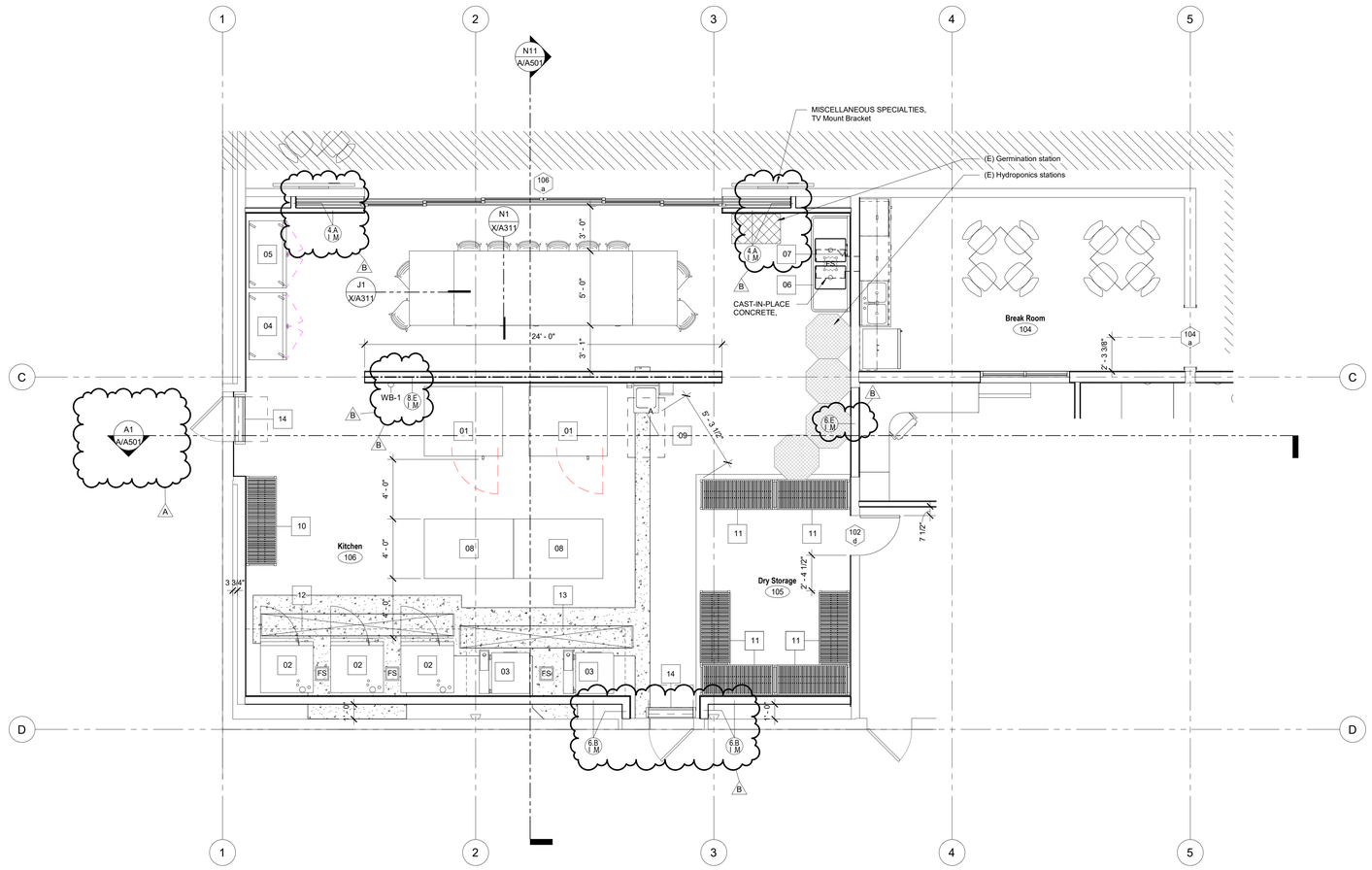
Equipment Schedule

Eq Mark	Description	Manufacturer	Model	Quantity	OFCI	OFCI	OFOI	OFVI	New	Relocate	Equip-Location	Depth	Width	Height	Weight	ELECTRICAL Volts	Load	HP	Phase	Conn	WASTE Waste Conn	Waste Size	WATER Water Cold	Water Hot	Water Stub Ht	Detail Ref	Remarks
01	Roll In Blast Chiller and Shock Freezer	Irinox North America	MF 250.2	2	X	-	-	-	X	-		4' - 8 1/8"	5' - 3"	7' - 10 5/16"	1345	208 V	2787.20 W		3								
02	Combination Steamer & Convection Oven	RATIONAL AG	iCombi Pro 20-full size E	3	-	-	-	X	X	-		3' - 8"	3' - 6 5/8"	6' - 1 3/4"	842	208 V / 240 V	67.9 kW		3								
03	Tilting Skillet	RATIONAL AG	iVario Pro L	2	-	-	-	X	X	-		2' - 11 3/16"	3' - 4 9/16"	1' - 11 15/16"	425	208 V	23000 W		3								
04	Reach-In Freezer	TRUE	T-49FG-HC~FGD01	1	-	X	-	-	X	-		2' - 5 13/16"	4' - 6 5/32"	6' - 11 3/8"	605	115 V	1265 W	.5	1	NEMA-5-20P							
05	Reach-In Refrigerator	TRUE	T-49G-4-HC~FGD01	1	-	X	-	-	X	-		2' - 5 13/16"	4' - 6 5/32"	6' - 11 3/8"	605	115 V	621 W	.5	1	NEMA 5-15P							
06	Food Prep 2 Compartment Sink	Advance Tabco	94-62-36-18RL	1	X	-	-	-	X	-		2' - 7"	6' - 5"	3' - 1"	206	-	-	-	-	-	-	-	-	-	-	X#-X/A###	-
07	Kitchen Faucet	Chicago	4445-DJ13	1	X	-	-	-	X	-		10"	10"	5"	4.25	-	-	-	-	-	-	-	X	X	-	X#-X/A###	-
08	Stainless Steel Work Counter	Advance Tabco	MS-366	2	X	-	-	-	X	-		4' - 0"	6' - 0"	2' - 11 1/2"	138	-	-	-	-	-							
09	Hand Sink	Advance Tabco	7-PS-46	1	X	-	-	-	X	-		2' - 0"	1' - 8"	3' - 1"	65	-	-	-	-	-	-	-	-	-	-	X#-X/A###	-
10	Camshelving with Vented Shelves	CAMBRO	CPU244872V4480	1	-	X	-	-	X	-		2' - 0"	4' - 0"	6' - 0"	102.5	-	-	-	-	-							
11	Camshelving with Vented Shelves	CAMBRO	CPU246072V4480	6	-	X	-	-	X	-		2' - 0"	5' - 0"	6' - 0"	118.6	-	-	-	-	-							
12	Grease Hood	Grease Master	6024 GSN-2-PSP-F	1	X	-	-	-	X	-		6' - 2"	11' - 0"	2' - 0"	663												
13	Grease Hood	Grease Master	6024 GSN-2-PSP-F	1	X	-	-	-	X	-		6' - 2"	14' - 10"	2' - 0"	804												
14	Fly Fan	Mars Air	Unheated LPV2	2	X	-	-	-	X	-		8 7/8"	3' - 0"	8"	32	208 V	-	.17	3	-							



SYMBOLS

Stud Wall, Studs and Interior Wall materials continuous from floor to underside of floor or roof deck. Studs at 16" o.c. unless otherwise noted. Interior Wall material shall include Batt Insulation, Sound Deadening Board, Plywood Sheathing, Gypsum Board, and Cement Plaster/ Ceramic Tile setting bed where occurs.

Stud Wall. Studs and finish material continuous from floor to minimum 6" above ceiling. Studs to be braced to underside of roof framing or deck if not required to be continuous to roof framing or deck. Studs at 16"o.c. Unless Otherwise Noted. See Structural for bracing and extent of Structural Sheathing.

CAST-IN-PLACE CONCRETE, 4" Concrete Walk over 6" 90% Compacted Fill.

0 — Reference Grid

101 a — Opening Group No. Refer to Door or Window Opening Schedules

Eq Mark — Equipment Item No. Refer to Equipment Schedule

Room name 101 — Room Designation

B # # — Wall Assembly Symbols. Refer to Sheet X/A101

Reference Point

ABBREVIATIONS

FEBC FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Type FEBC-1, Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinet at Rated Walls Where Stud Depth is Less than 6" and at Masonry Walls, See

FEC FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Type FEC-1, Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls, See

FF Face of Finish
FOC Face of Concrete
FD Floor Drain
FOM Face of Masonry
FOS Face of Stud
FS Floor Sink
HB Hose Bib
MO Masonry Opening
UNO Unless Noted Otherwise
RO Rough Opening
VCT RESILIENT FLOORING, Vinyl Composition Tile
Typ. Typical
Sim. Similar
OH Opposite Hand

NOTES

1. All Exterior Walls shall be Wall Assembly Type 6 A E M Unless Noted Otherwise.
2. All Interior Walls shall be Wall Assembly Type 6 E I M Unless Noted Otherwise.
3. All Dimensions are to Face of Stud (FOS) or Center Line, Unless Noted Otherwise.
4. All Elevation Dimensions are above Finish Floor at each floor level, Unless Noted Otherwise.
5. Dimensions noted as "+/-" are nominal.
6. Floor Drains (FD) and Floor Sinks (FS) shall be set -3/4" and a min. of 3'-0" from nearest wall, Unless Noted Otherwise.
7. IDENTIFYING DEVICES, For Room Signage refer E11 X/A601 to and Specifications
8. FIRE RESISTIVE ASSEMBLIES:
   a. All Through Penetrations and Wall Membrane Penetrations through Walls of Fire Resistive Construction shall be protected in accordance with their Fire Resistive Ratings.

   b. All Walls of Fire and/or Smoke Resistive Construction Shall Be Permanently Identified with Signs or Stenciling in lettering not less than 3 inches (76 mm) in. height with a minimum 3/8 inch (9.5 mm) stroke in a contrasting color incorporating the following wording: FIRE AND/OR SMOKE BARRIER "#" HOUR RATED, PROTECT ALL OPENINGS. Signs or Stenciling shall be located above ceilings on both sides of the wall, located 15'-0" from ends of wall and at intervals not to exceed 30'-0" horizontally along the wall or partition. Note: "#" indicates the hourly rating of the wall or partition.

G18 — Floor Plan Legend
No Scale

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

KITCHEN EQUIPMENT PLAN
Drawing

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Architect

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A	Addendum 1	09/16/24
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

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Designed Designer
Scale: As indicated
Drawn By: Author
Project Number: 2310
Checked Checker
Date: 09/16/24
Reviewed Approver

A/A102
AD2-AX04

A1 — KITCHEN EQUIPMENT PLAN
1/4" = 1'-0"

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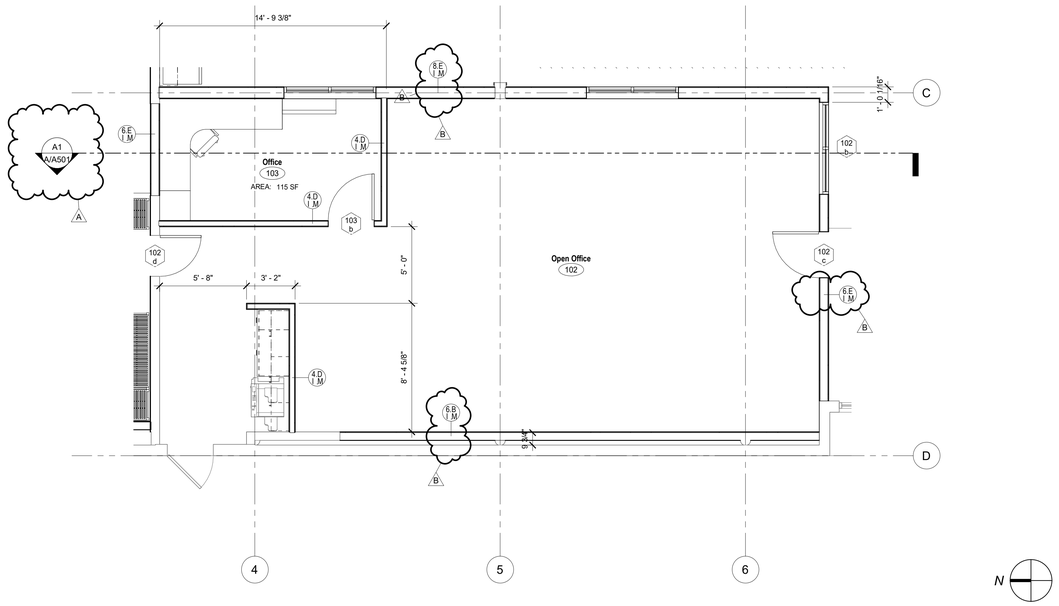
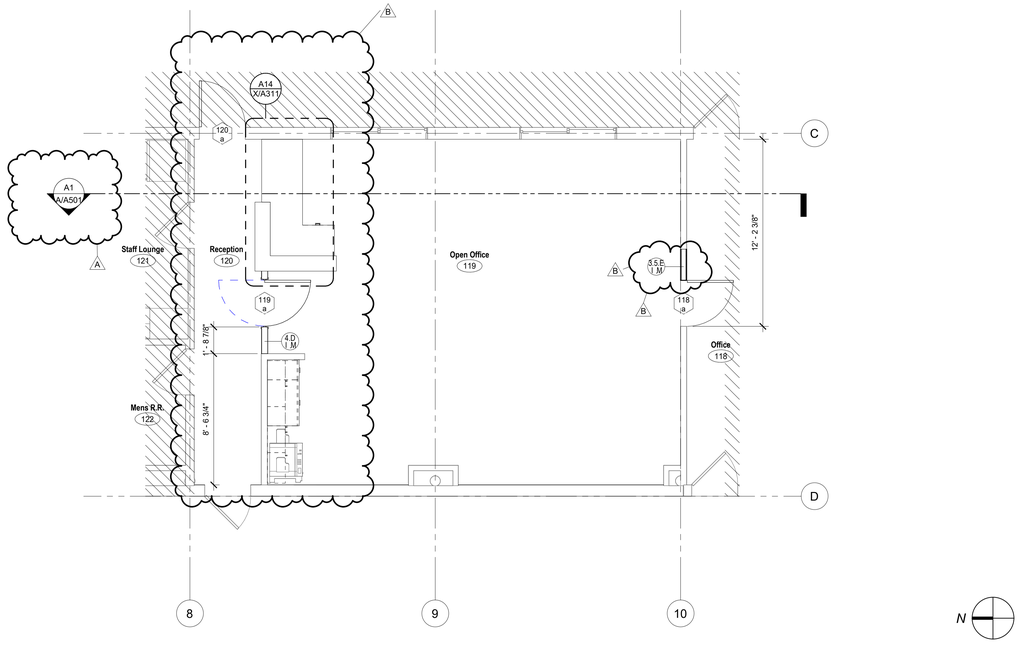


J7

1/4" = 1'-0"

ENLARGED PLAN - KITCHEN OFFICE



A7

1/4" = 1'-0"

ENLARGED PLAN - ADMIN OFFICE

SYMBOLS

Stud Wall, Studs and Interior Wall materials continuous from floor to underside of floor or roof deck. Studs at 16" o.c. unless otherwise noted. Interior Wall material shall include Batt Insulation, Sound Deadening Board, Plywood Sheathing, Gypsum Board, and Cement Plaster/ Ceramic Tile setting bed where occurs.

Stud Wall. Studs and finish material continuous from floor to minimum 6" above ceiling. Studs to be braced to underside of roof framing or deck if not required to be continuous to roof framing or deck. Studs at 16"o.c. Unless Otherwise Noted. See Structural for bracing and extent of Structural Sheathing.

CAST-IN-PLACE CONCRETE, 4" Concrete Walk over 6" 90% Compacted Fill.

0 — Reference Grid

101 a — Opening Group No. Refer to Door or Window Opening Schedules

Eq Mark — Equipment Item No. Refer to Equipment Schedule

Room name 101 — Room Designation

— Wall Assembly Symbols. Refer to Sheet X/A101

Reference Point

ABBREVIATIONS

FEBC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Type FEBC-1, Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinet at Rated Walls Where Stud Depth is Less than 6" and at Masonry Walls, See
FEC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Type FEC-1, Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls, See
FF	Face of Finish
FOC	Face of Concrete
FD	Floor Drain
FOM	Face of Masonry
FOS	Face of Stud
FS	Floor Sink
HB	Hose Bib
MO	Masonry Opening
UNO	Unless Noted Otherwise
RO	Rough Opening
VCT	RESILIENT FLOORING, Vinyl Composition Tile
Typ.	Typical
Sim.	Similar
OH	Opposite Hand

NOTES

1. All Exterior Walls shall be Wall Assembly Type 6 A/ E M Unless Noted Otherwise.
2. All Interior Walls shall be Wall Assembly Type 6 E/ I M Unless Noted Otherwise.
3. All Dimensions are to Face of Stud (FOS) & Center Line, Unless Noted Otherwise.
4. All Elevation Dimensions are above Finish Floor at each floor level, Unless Noted Otherwise.
5. Dimensions noted as "+/-" are nominal.
6. Floor Drains (FD) and Floor Sinks (FS) shall be set -3/4" and a min. of 3'-0" from nearest wall, Unless Noted Otherwise.
7. IDENTIFYING DEVICES, For Room Signage refer E11 / X/A601 to and Specifications
8. FIRE RESISTIVE ASSEMBLIES:
   a. All Through Penetrations and Wall Membrane Penetrations through Walls of Fire Resistive Construction shall be protected in accordance with their Fire Resistive Ratings.

   b. All Walls of Fire and/or Smoke Resistive Construction Shall Be Permanently Identified with Signs or Stenciling in lettering not less than 3 inches (76 mm) in. height with a minimum 3/8 inch (9.5 mm) stroke in a contrasting color incorporating the following wording: FIRE AND/OR SMOKE BARRIER "#" HOUR RATED, PROTECT ALL OPENINGS. Signs or Stenciling shall be located above ceilings on both sides of the wall, located 15'-0" from ends of wall and at intervals not to exceed 30'-0" horizontally along the wall or partition. Note: "#" indicates the hourly rating of the wall or partition.

G18

No Scale

Floor Plan Legend

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Project

ENLARGED OFFICE PLANS

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No.	Revision/Submission	Date
A	Addendum 1	09/16/24
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

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Scale: As indicated	Drawn By: Author	A/A103
Project Number: 2310	Checked fChecker	AD2-AX05
Date: 09/16/24	ReviewedApprover	

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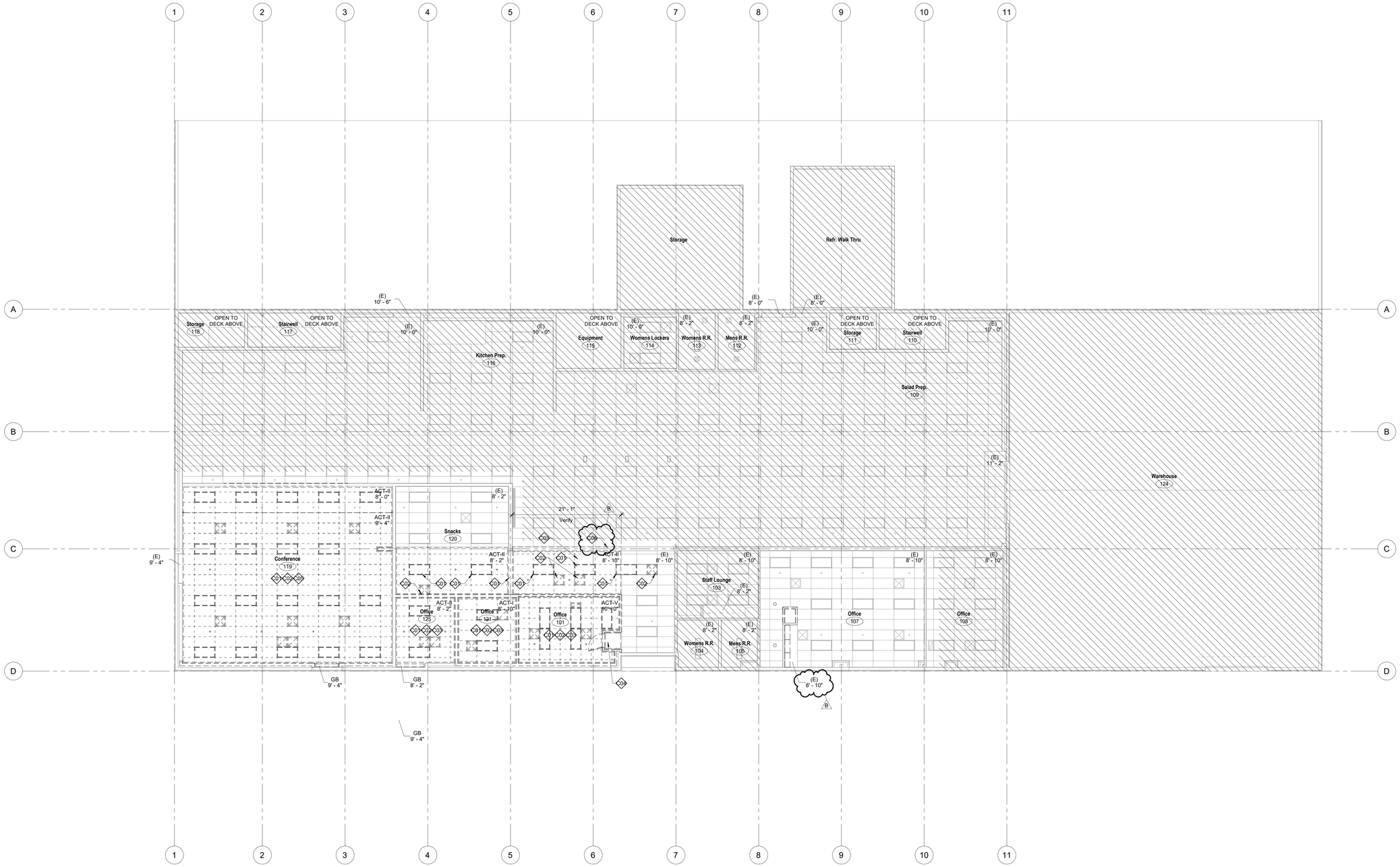

SYMBOLS

- Existing Wall
- Remove Existing Wall
- Remove Existing Building Item (See Demolition Note, Plumbing, Mechanical, and Electrical Drawings)
- Room name 101 — Room Designation
- 01 — Demolition Note Symbol
- Demolished ACT, see keynotes
- Area not within the architectural scope of the Project.

NOTES

1. See Specifications section, SELECTIVE DEMOLITION, See Plumbing, Mechanical, and Electrical Drawings and Specifications
2. Remove materials, equipment, and finishes indicated by demolition key notes
3. All Concrete removed shall be within sawcut lines or Existing expansion/ control joint lines.
4. Coordinate removal of door hardware with HARDWARE in the specifications.
5. Where Demolition work is indicated, contractor shall remove and reinstall any or all items necessary for installation of new work. Existing area affected by demolition work shall be patched and repaired to match Existing construction.
6. Any damage resulting from the modernization activity shall be corrected at no additional expense to the owner and all surfaces cleaned and readied to receive new work.
7. Remove, cut, and patch work in a manner to minimize damage and to provide means of restoring products and finishes to original condition.
8. Where new work abuts or aligns with Existing, make a smooth and even transition. Patch work shall match Existing adjacent work in texture and appearance.
9. When Finished surfaces are cut so that a smooth transition with new work is not possible, terminate Existing surfaces along a straight line at a natural line of division and make recommendation to the architect.
10. Coordinate demolition with MECHANICAL AND ELECTRICAL.

DEMOLITION NOTES

- 01 SELECTIVE DEMOLITION, Remove Light Fixture, Refer to Electrical Drawings
- 02 SELECTIVE DEMOLITION, Remove HVAC Grilles, Refer to Mechanical
- 03 SELECTIVE DEMOLITION, Remove Suspended Ceiling System and Accessories
- 04 SELECTIVE DEMOLITION, Remove Gypsum Board ceiling system and accessories
- 05 SELECTIVE DEMOLITION, Remove Suspended Ceiling System and Accessories, Salvage For Re-Use
- 06 SELECTIVE DEMOLITION, Remove Portion of Soffit Wall — B

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

DEMOLITION REFLECTED CEILING PLAN
Drawing

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LICENSED ARCHITECT MATTHEW R. HERD No. C35878 Exp. 05-31-26 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

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Scale: 1/8" = 1'-0"	Drawn By: Author	A/A200
Project Number: 2310	Checked IChecker	AD2-AX06
Date: 09/16/24	ReviewedApprover	

A1 — Demolition Reflected Ceiling Plan
1/8" = 1'-0"

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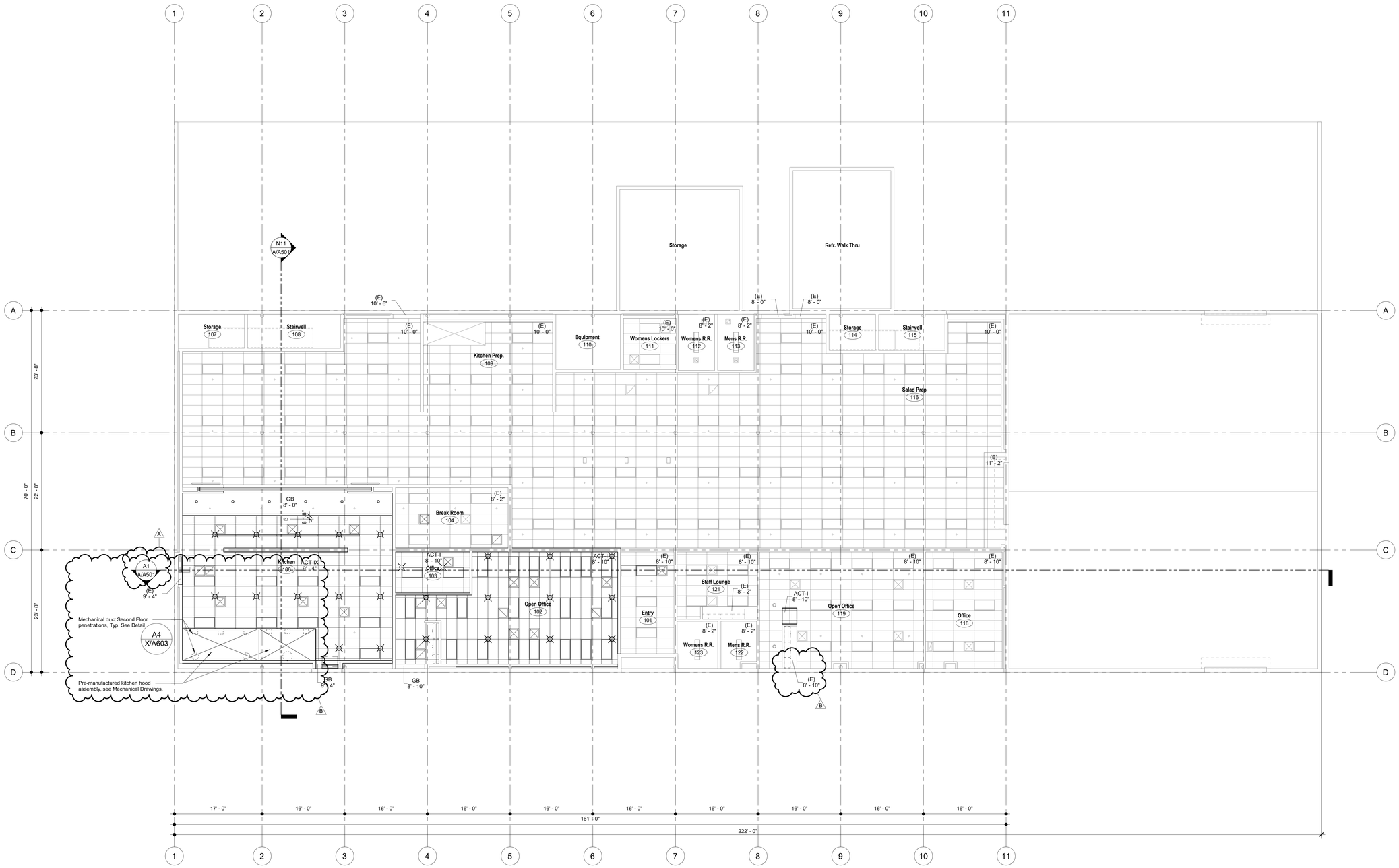

SYMBOLS

- MECHANICAL, Air Supply Grill
- MECHANICAL, Air Return Grill
- MECHANICAL, Strip Grill
- MECHANICAL, Exhaust Fan
- FIRE PROTECTION, Fire Sprinkler Head
- OD — PLUMBING, Overflow Drain
- ACOUSTICAL CEILINGS, Suspended Ceiling Compression Strut/ Splay Wire location
- (RA) — ROOF ACCESSORIES, Roof Hatch
- ELECTRICAL, Light Fixture, Recessed. Unless Noted Otherwise. (p) = Pendant Mounted (s) = Surface Mounted
- HD — ELECTRICAL, Fire Alarm Device, Heat Detector
- SD — ELECTRICAL, Fire Alarm Device, Smoke Detector
- S — ELECTRICAL, Speaker
- C — ELECTRICAL, Camera
- CEMENT PLASTER, Cement Plaster System
- GYPSUM BOARD, Refer to Interior Finish Schedule
- ACOUSTICAL CEILINGS, Refer to Plan for Type.
- ACOUSTICAL CEILINGS, Refer to Plan for Type.
- Metal Deck
- PLUMBING, Roof Drain, Refer to Plumbing.
- ACCESS DOORS AND FRAMES, Access Doors, Ceiling (20" X 30"), UNO
- Reference Point

ABBREVIATIONS

ACT	ACOUSTICAL CEILINGS, Tile, Suspended, Unless Noted Otherwise.
CLG	Ceiling
CP	CEMENT PLASTER, System
(E)	Existing
GB	GYPSUM BOARD, Type 'X', Unless Noted Otherwise.
GLB	GLUE-LAMINATED CONSTRUCTION, Beam
HT	Height
MD	METAL DECK
TYP	Typical
SIM	Similar
OH	Opposite hand
DS	Downspout
OD	Overflow Drain
UNO	Unless Noted Otherwise

NOTES

1. ACOUSTICAL CEILINGS, For typical suspended ceiling support and bracing, Refer to A11/X/A602 A7/X/A602
2. Gypsum Board Ceilings Noted As "CLG HT Varies", Gypsum Board is attached to bottom side of framing/ joists, UNO
3. Ceiling Heights indicated are above Finish Floor at each floor level, UNO.
4. Where Fire Sprinklers occur at Acoustic Tile, Sprinkler Heads shall be centered in the Tile.
5. Not all fire Sprinkler Head locations are shown to provide code required coverage. But locations shown are intended to convey design intent. Coordinate with FIRE PROTECTION.
6. See Structural for framing of soffits and ceilings
7. Single Lights or Single Rows of Lights at Soffits/ Ceilings shall be centered, UNO.

F18 — Reflected Ceiling Legend

No Scale

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Project

REFLECTED CEILING PLAN

Drawing

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Architect

No.	Revision/Submission	Date
A	Addendum 1	09/16/24
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

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Date: 09/16/24	ReviewedApprover	

A/A201

AD2-AX07

A1 — Reflected Ceiling Plan

1/8" = 1'-0"

Refer to F18 for Legend Symbols, Abbreviations and Notes

9/26/2024 2:38:58 PM
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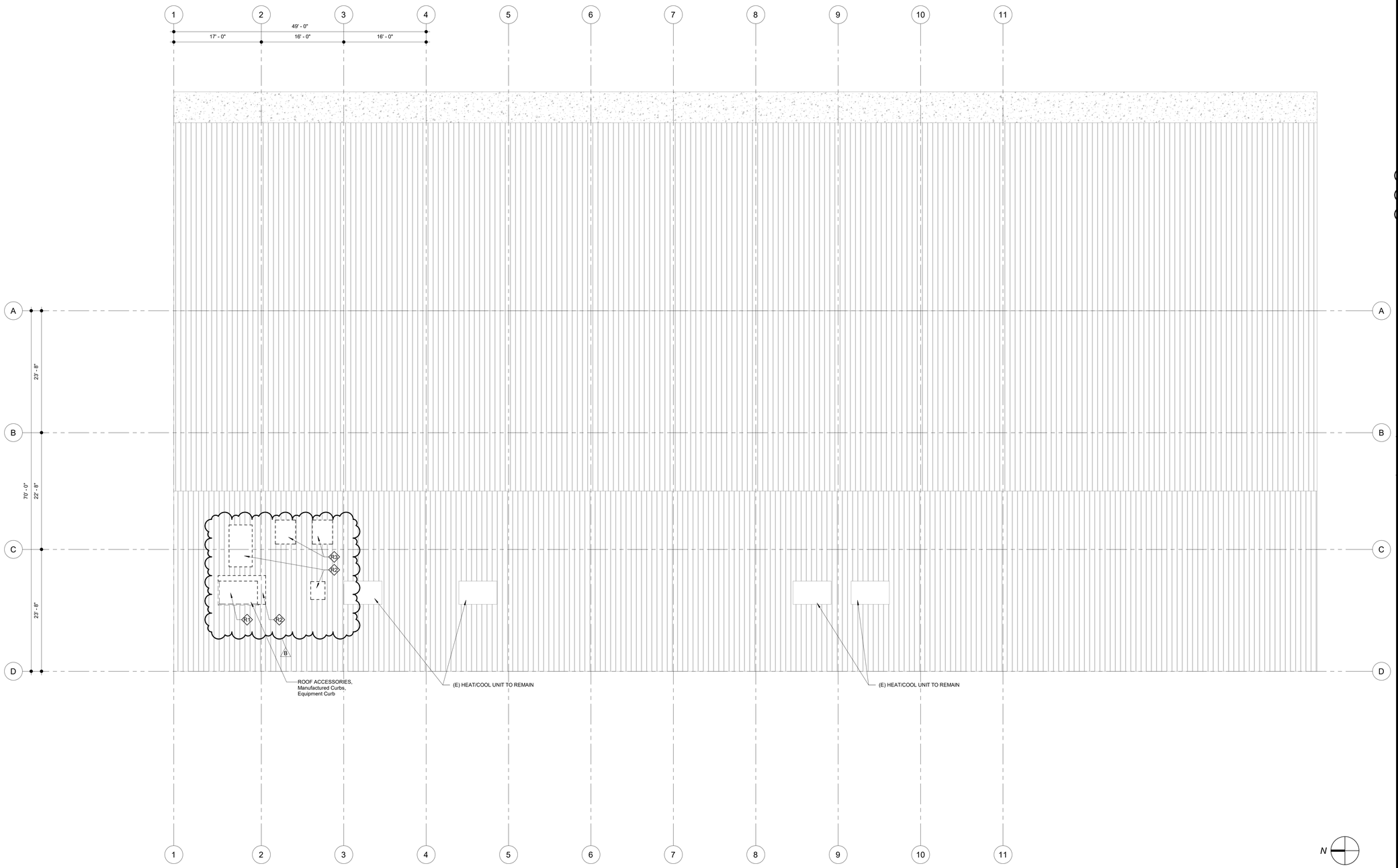

SYMBOLS

Remove Existing Building Item
(See Demolition Note, Plumbing,
Mechanical, and Electrical Drawings)

Demolition Note Symbol

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typical

NOTES

1. See Specifications section, SELECTIVE DEMOLITION, See Plumbing, Mechanical, and Electrical Drawings and Specifications
2. Remove materials, equipment, and finishes indicated by demolition key notes
3. Where Demolition work is indicated, contractor shall remove and reinstall any or all items necessary for installation of new work. Existing area affected by demolition work shall be patched and repaired to match Existing construction.
4. Any damage resulting from the modernization activity shall be corrected at no additional expense to the owner and all surfaces cleaned and readied to receive new work.
5. Remove, cut, and patch work in a manner to minimize damage and to provide means of restoring products and finishes to original condition.
6. Where new work abuts or aligns with Existing, make a smooth and even transition. Patch work shall match Existing adjacent work in texture and appearance.
7. When Finished surfaces are cut so that a smooth transition with new work is not possible, terminate Existing surfaces along a straight line at a natural line of division and make recommendation to the architect.
8. Coordinate demolition with MECHANICAL AND ELECTRICAL.

DEMOLITION NOTES

R1 SELECTIVE DEMOLITION,
Remove And Protect Existing Heat/Col Unit for Relocation, See Mechanical. (E) roof curb to remain. Prep for installation of new MUA unit. See mechancial/Architectural

R2 SELECTIVE DEMOLITION,
Remove Portion of Roof, Prepare For New Mechanical Curb, See Mechanical

R3 SELECTIVE DEMOLITION,
Remove Portion of Roof, Prepare For New Mechanical Platform, See Mechanical

B

G18 | Roof Plan Legend
No Scale

Child Nutrition Kitchen
Madera Unified School District
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DEMOLITION ROOF PLAN
Drawing

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B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

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Project Number: 2310	Checked IChecker	AD2-AX08
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A1 | Demolition Roof Plan
1/8" = 1'-0"

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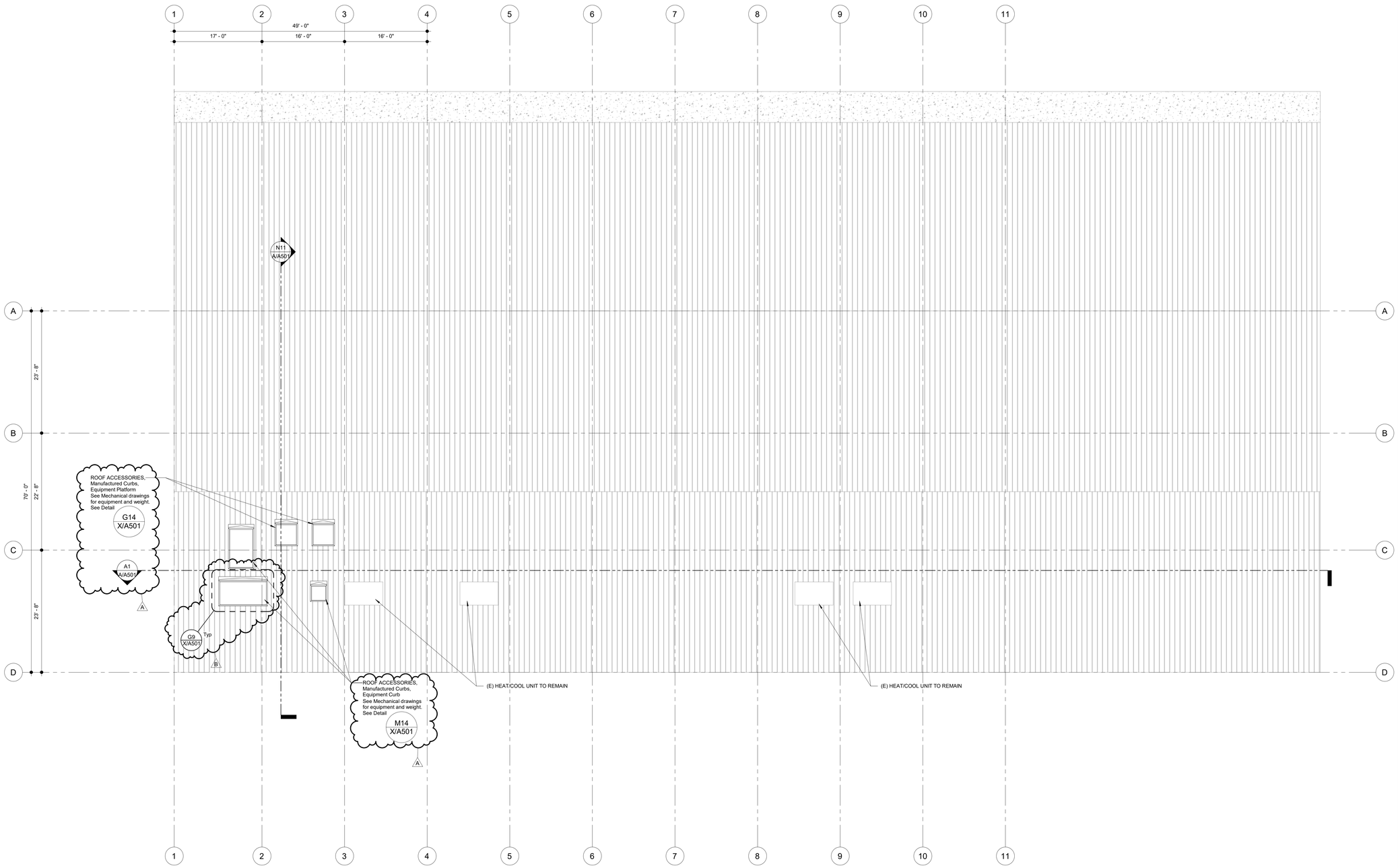

SYMBOLS

	PLUMBING, Roof Drain and Overflow
	ROOF ACCESSORIES, Roof Hatch
PV	PLUMBING, Vent
+14'-6" TOP	Elevation above finish floor
Slope (DN)	Direction of slope
	Line of Wall below
	Reference Point
	LOUVERS

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typical

NOTES

1. Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for all roof penetrations and roof mounted equipment. For appropriate details, Refer to Unless Otherwise Noted. Details are Roof Deck Dependent
2. Roof Slope and Crickets shall be constructed with tapered insulation to achieve slope as required.
3. When indicated, SHEET METAL, Reglet and Counter Flashing occurs at the Back Side and/or the Front Side of Parapet Walls. At each roof level such Reglet elevations shall be determined based upon the details of construction, and be installed at the same horizontal level.
4. SHEET METAL, Counter Flashing Boots shall be installed at all intersecting parapets that have different parapet heights. for conditions requiring such boots, refer to Details A14 2X/A501, E14 2X/A501, J14 2X/A501, N14 2X/A501

G18 | Roof Plan Legend

No Scale

Child Nutrition Kitchen
Madera Unified School District
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ROOF PLAN
Drawing

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A	Addendum 1	09/16/24
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Revision

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Scale: 1/8" = 1'-0"
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A/A301
AD2-AX09

A1 | Roof Plan
1/8" = 1'-0"
Refer to F18 for Legend Symbols, Abbreviations and Notes

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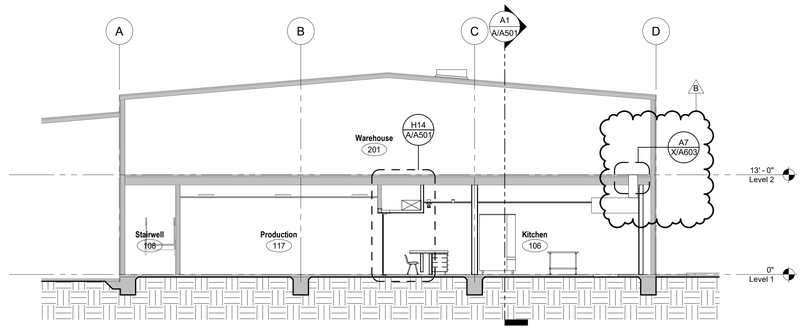
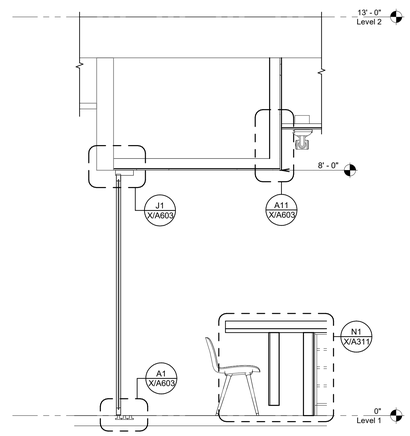
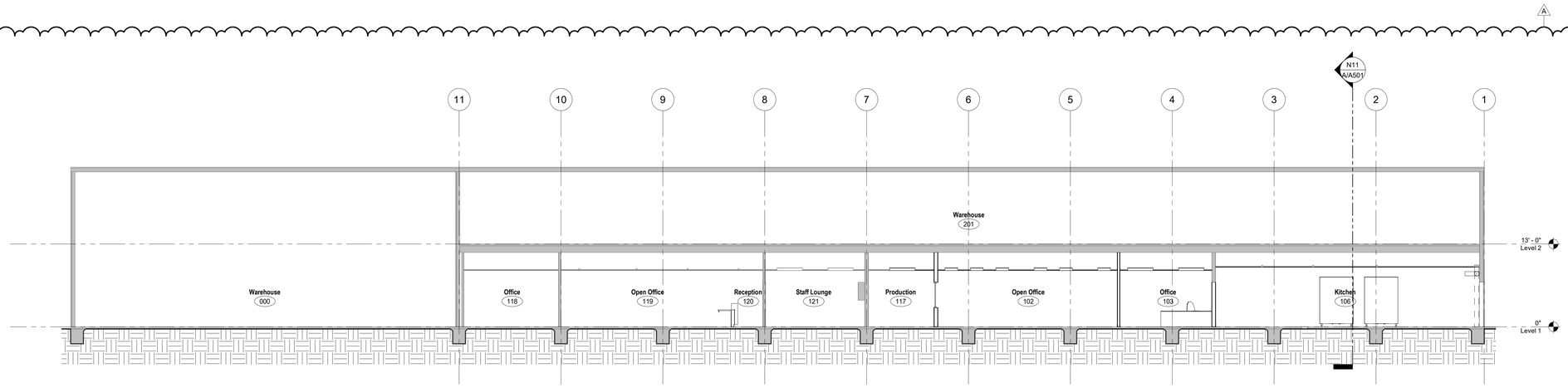


N11
1/8" = 1'-0"
BUILDING SECTION A



H14
1/2" = 1'-0"
WALL SECTION



A1
1/8" = 1'-0"
BUILDING SECTION B

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

SECTIONS
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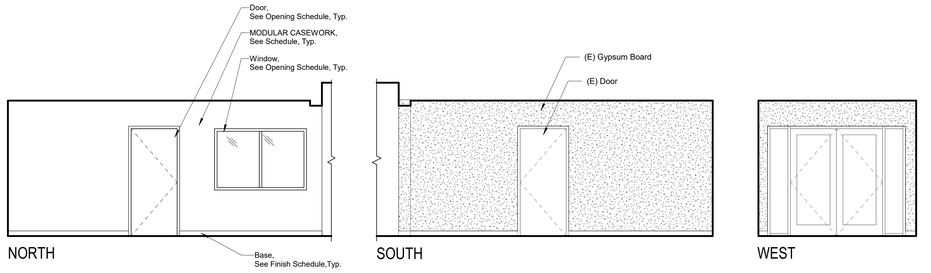

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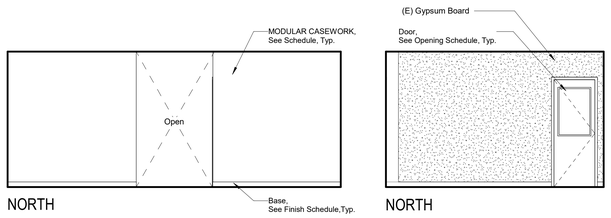
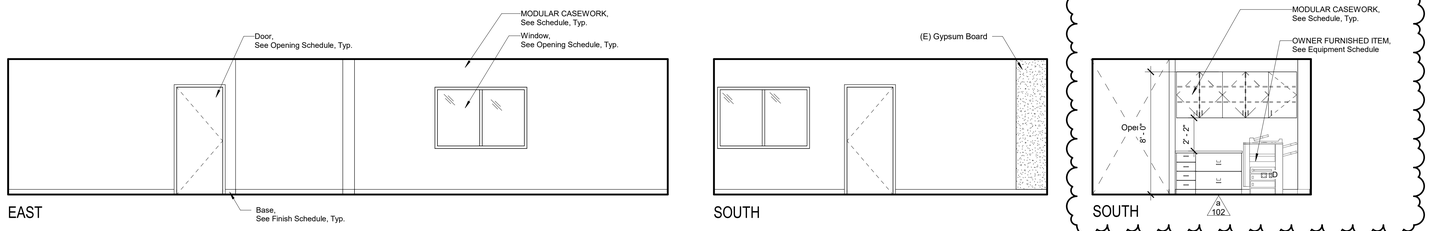


102 Open Office



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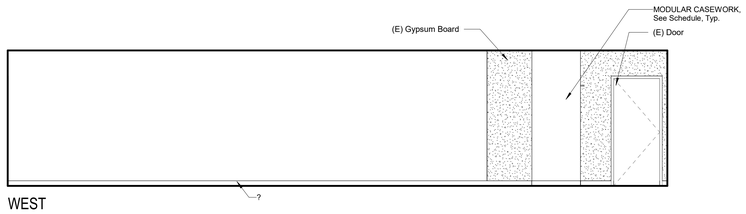

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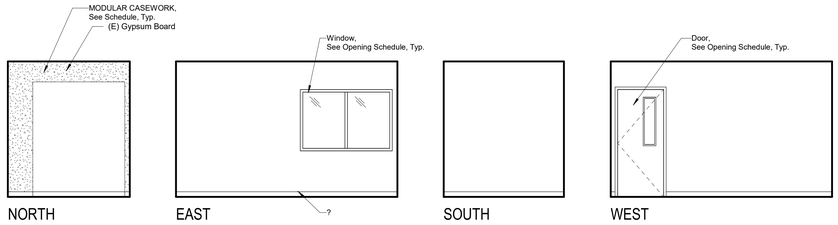
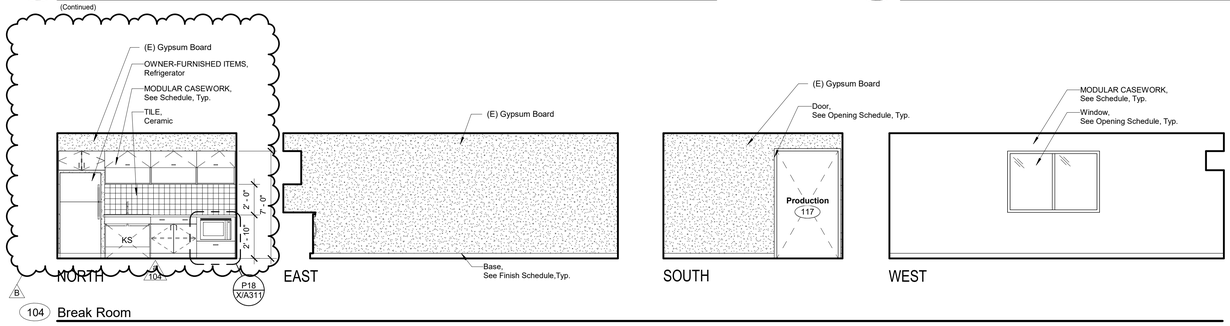


103 Office



104 Break Room

SYMBOLS

- Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule
- Equipment Item No. Refer to Equipment Schedule
- ELECTRICAL, Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Clock @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Clock/Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Outlet
- ELECTRICAL, Light Switch
- FA ELECTRICAL, Fire Alarm Device
- V ELECTRICAL, Volume Control
- TV ELECTRICAL, Television Outlet
- T MECHANICAL, Thermostat
- HB PLUMBING, Hose Bib
- D ELECTRICAL, Data Outlet
- M ELECTRICAL, Microphone Outlet
- IS ELECTRICAL, Intrusion Sensor
- MS ELECTRICAL, Motion Sensor
- TO ELECTRICAL, Telephone Outlet
- (E) Gypsum Board

ABBREVIATIONS

Gl.	Glass
KS	Knee Space
OH	Opposite Hand
Typ.	Typical
Sim.	Similar
Dia.	Diameter
UNO	Unless Noted Otherwise

NOTES

1. All Details, Materials and Finishes shall be considered typical for all similar conditions Unless Noted Otherwise.
2. Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for all wall mounted devices and coordinate location and heights with Architectural (ie. casework, equipment, etc.)
3. Locate and mount TOILET ACCESSORIES and PLUMBING per detail (A11 / X/A601) Unless Noted Otherwise.
4. Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per detail (N11 / X/A601) Unless Noted Otherwise.
5. Provide Backing for TOILET ACCESSORIES, Grab Bars per detail (A7 / X/A601)
6. Locate and mount IDENTIFYING DEVICES per detail (E11 / X/A601) Unless Noted Otherwise.
7. Provide backing at all MODULAR CASEWORK and/or LAB CASEWORK AND EQUIPMENT per detail (N11 / X/A601)
8. Attach all MODULAR CASEWORK and/or LAB CASEWORK AND EQUIPMENT per details (L14 / X/A301) (L11 / X/A301)
9. WALL COVERINGS, Vinyl Covered Tackboard, See detail (- / ---)
10. WALL COVERINGS, FRP Panels, See detail XX-X/A60X
11. GYPSUM BOARD, Control Joints, see details XX-X/A60X and XX-X/A60X

G18 | Interior Elevation legend
No Scale

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

BUILDING A
INTERIOR ELEVATIONS- ROOMS 101-104
Drawing

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B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

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Project Number: 2310
Date: 09/16/24

A/A601
AD2-AX11

A1 | Interior Elevations
1/4" = 1'-0" | Refer to F18 for Legend Symbols, Abbreviations and Notes

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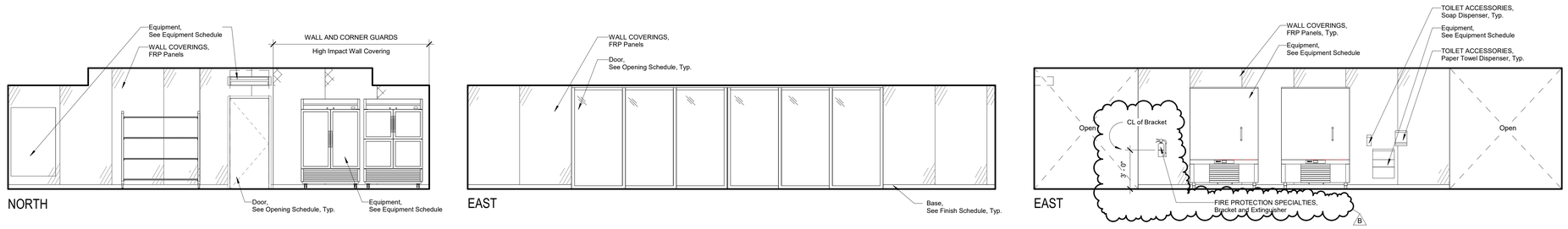
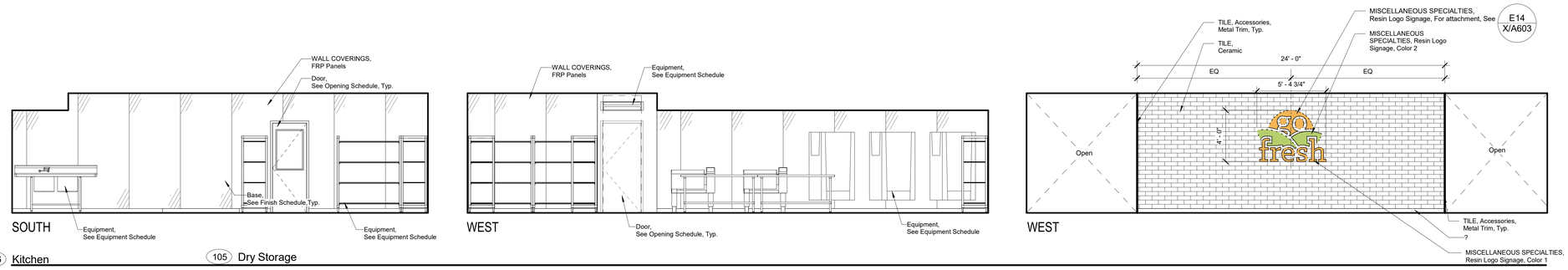


106 Kitchen



106 Kitchen
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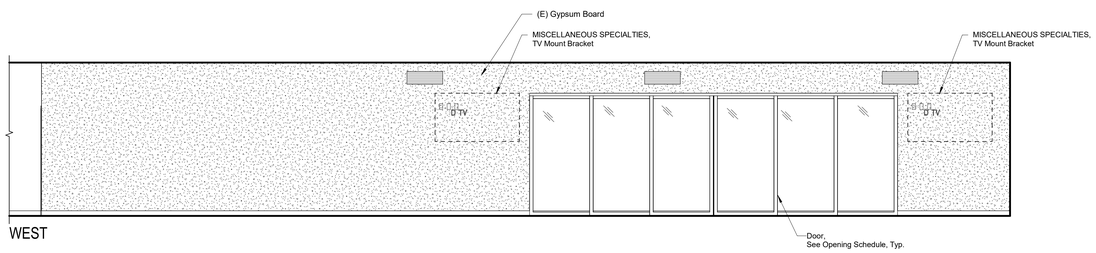
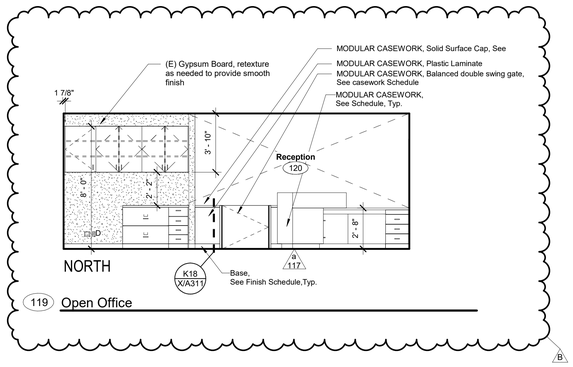
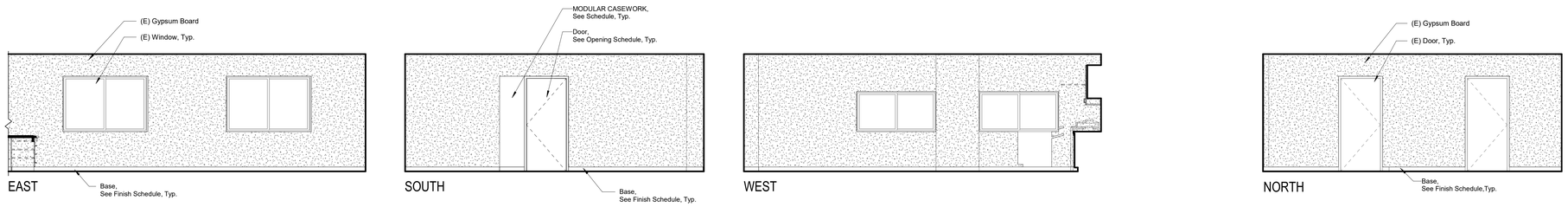
105 Dry Storage



117 Production

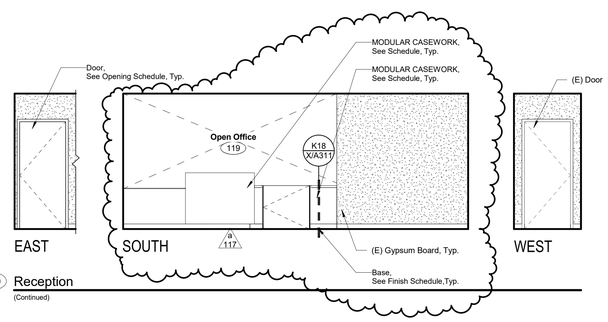


119 Open Office



119 Open Office

120 Reception



120 Reception
(Continued)

SYMBOLS

- Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
- Equipment Item No. Refer to Equipment Schedule.
- ELECTRICAL, Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Clock @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Clock/Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Outlet
- ELECTRICAL, Light Switch
- ELECTRICAL, Fire Alarm Device
- ELECTRICAL, Volume Control
- ELECTRICAL, Television Outlet
- MECHANICAL, Thermostat
- PLUMBING, Hose Bib
- ELECTRICAL, Data Outlet
- ELECTRICAL, Microphone Outlet
- ELECTRICAL, Intrusion Sensor
- ELECTRICAL, Motion Sensor
- ELECTRICAL, Telephone Outlet
- (E) Gypsum Board

ABBREVIATIONS

Gl.	Glass
KS	Knee Space
OH	Opposite Hand
Typ.	Typical
Sim.	Similar
Dia.	Diameter
UNO	Unless Noted Otherwise

NOTES

1. All Details, Materials and Finishes shall be considered typical for all similar conditions Unless Noted Otherwise.
2. Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for all wall mounted devices and coordinate location and heights with Architectural (ie. casework, equipment, etc.)
3. Locate and mount TOILET ACCESSORIES and PLUMBING per detail Unless Noted Otherwise. (A11 / X/A601)
4. Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per detail Unless Noted Otherwise. (N11 / X/A601)
5. Provide Backing for TOILET ACCESSORIES, Grab Bars per detail (A7 / X/A601)
6. Locate and mount IDENTIFYING DEVICES per detail Unless Noted Otherwise. (E11 / X/A601)
7. Provide backing at all MODULAR CASEWORK and/or LAB CASEWORK AND EQUIPMENT per detail (N11 / X/A601)
8. Attach all MODULAR CASEWORK and/or LAB CASEWORK AND EQUIPMENT per details (L14 / X/A301) (L11 / X/A301)
9. WALL COVERINGS, Vinyl Covered Tackboard, See detail (- / ---)
10. WALL COVERINGS, FRP Panels, See detail XX-X/A60X
11. GYPSUM BOARD, Control Joints, see details XX-X/A60X and XX-X/A60X

G18 | Interior Elevation legend
No Scale

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
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BUILDING A
INTERIOR ELEVATIONS- ROOMS 117-120
Drawing

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Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

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Reviewed Approver

Scale: 1/4" = 1'-0"
Project Number: 2310
Date: 09/16/24

A/A602
AD2-AX12

A1 | Interior Elevations
1/4" = 1'-0"
Refer to F18 for Legend Symbols, Abbreviations and Notes

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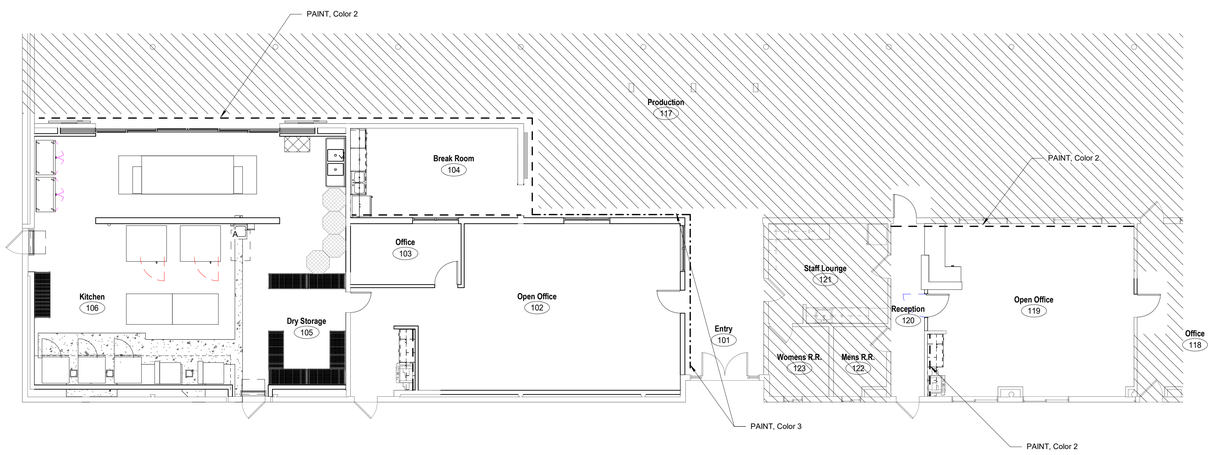
ACCENT PAINT

All New and Existing Gypsum Board within the scope of the project to be PAINT, Color 1.

PAINT, Color 2

PAINT, Color 3

M18	Interior Design Legend
No Scale	



A1	Accent Paint Plan
1/8" = 1'-0"	Refer to M18 for Interior Design Legend

Child Nutrition Kitchen
Madera Unified School District
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Project

BUILDING A
INTERIOR DESIGN- ACCENT PAINT PLAN
Drawing

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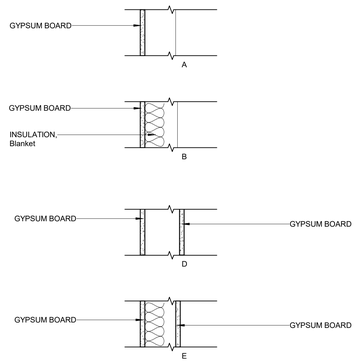
EXTERIOR

INTERIOR



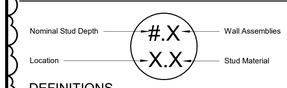
NOTES

1. These Schedules are provided for the convenience of the Contractor. All conditions and dimensions shall be field verified prior to any fabrication.
2. The intent of these schedules is to indicate the various layers of materials which comprise the different Wall Assembles.
3. Refer to the Exterior Elevations and Exterior Finish Schedule for additional Wall Covering and for Material Finishes.
4. Refer to the Interior Elevations and Interior Finish Schedule for additional Wall Coverings and for Material Finishes.
5. Where Ceramic Tile Systems are designated, refer to the Finish Schedule and Specification Section for the appropriate Ceramic Tile System.
6. Provide a continuous Thermal Blanket Insulation at all walls designated as Exterior Walls. Refer to the Specification Section for the Insulation Type and location for Installation.
7. Provide a continuous Sound Blanket at walls designated as Interior walls where insulation is indicated as part of Assembly.
8. Refer to Floor Plans for Typical and Special Wall Assemblies References.
9. Refer to the Floor Plans for Walls that are Designated to be Rated Assemblies.
10. ACOUSTICAL AND SOUND WALLS:
    - A. Wall Assemblies that are designated as Interior and contains both Sound Blanket and Sound Deadening Board (Sound Walls), Shall have sound treatment per Detail ***XX-X/A101.***
    - B. Wall Assemblies that are designated Acoustical, Shall have acoustical treatment per Detail ***XX-X/A101.***
    - C. Construct Walls per Typical and Special Wall Assemblies. Note the details referenced, show typical single stud construction. Construct special Wall Assembles similarly.
      Non-Bearing Walls:
      1) Connection to Floor or Roof Decks, Refer to Details ***XX-X/A101***
      2) Connection to Framing, Refer to Details ***XX-X/A101***
11. FIRE RATED WALLS.
    - A. Refer to Floor Plans for Fire Resistive Rating of Typical Wall Assemblies and special Wall Assemblies.
    - B. Fire Resistive Construction shall take Precedence over Sound Wall Construction.
    - C. For Sealing Penetrations through Fire-Rated Walls Refer to Detail xx-X/A101.
    - D. FIRE RESISTIVE CONSTRUCTION:
      1. Refer to the Floor Plans for Walls that are Designated to be Rated Assemblies.
      2. Stud size may exceed the minimum, and stud spacing may be less than the maximum stated in the referenced Fire Rated Assemblies. Refer to the Floor Plan Wall Assembly Symbols, Legends and Structural drawings for Stud Size and Spacing.

CBC Design XX-X.X (Table 720)	= Refer to California Building Code, Chapter 7 For Fire Resistive Standards and Notes.
FRDM Design WP-XXXX	= Refer to Gypsum Association Fire Resistive Design Manual for Fire Resistive Standards and Notes.
UL Fire Resistive Design U-4xx	= Refer to Underwriters Laboratories Fire Resistance Directory for Fire Resistive Standards and Notes.

    - E. Construct Walls per Typical and Special Wall Assemblies. Note the details referenced, show typical single stud construction. Construct special Wall Assembles similarly.
      Non-Bearing Walls:
      1) Connection to Floor or Roof Decks, Refer to Details ***XX-X/A101***
      2) Connection to Framing, Refer to Details ***XX-X/A101***
12. Refer to Structural Sheets for Metal Stud Gauges and Lengths.

WALL ASSEMBLY SYMBOLS



DEFINITIONS

LOCATION
E = Exterior
I = Interior
A = Acoustical

STUD MATERIAL
W = Wood
M = Metal

NOMINAL STUD DEPTH

		METAL	WOOD
1	=	1 5/8"	1 1/2"
3	=	3 5/8"	2 1/2"
4	=	4"	3 1/2"
6	=	6"	5 1/2"
8	=	8"	7 1/4"
10	=	10"	9 1/4"
9	=	Special Wall Assemblies. Reserved for Special Construction, i.e., Multi-Stud Assemblies, refer to Special Wall Assembly Schedules	

WALL ASSEMBLIES
See Typical and Special Wall Assemblies Schedules

G18 — Typical Wall Assemblies Legend
No scale

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

TYPICAL INFORMATION
WALL ASSEMBLIES
Drawing

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www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051
LICENSED ARCHITECT MATTHEW R. PERRY No. C35878 Exp. 05-31-09 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

Designed Designer
Drawn By: Author
Checked IChecker
ReviewedApprover

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Scale: As indicated
Project Number: 2310
Date: 09/16/24

X/A101
AD2-AX14

A11 — Exterior Wall Assembly
1 1/2" = 1'-0"

A14 — Interior Wall Assembly
1 1/2" = 1'-0"

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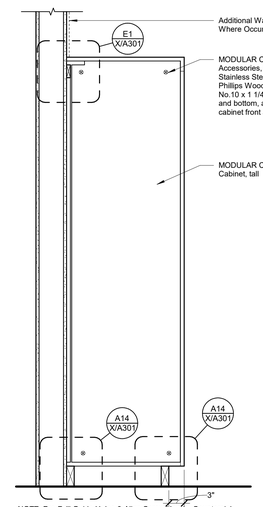
Casework Schedule

Room No	Group No.	Description	Catalog No.	No Req'd	Length	Height	Depth	Accessories	Remarks
102	a 102	Base Cabinet w/ Drawers	223	1	3' - 0"	2' - 8 1/2"	2' - 0"		
102	a 102	Base Cabinet w/ Drawers	254	1	1' - 3"	2' - 8 1/2"	2' - 0"		
102	a 102	Wall Hung Cabinet	301	1	1' - 10"	3' - 0"	1' - 2"		
102	a 102	Wall Hung Cabinet	312	2	3' - 0"	3' - 0"	1' - 2"		
102	a 102	Counter Top	-	1		2' - 10"	2' - 1"		
104	a 104	Base Cabinet w/ADA Plumbing Cover	157	1	3' - 0"	2' - 8 1/2"	2' - 0"		
104	a 104	Base Cabinet w/ Drawers	212	1	3' - 0"	2' - 8 1/2"	2' - 0"		
104	a 104	Wall Hung Cabinet	312	1	3' - 0"	1' - 3"	1' - 2"		
104	a 104	Wall Hung Cabinet	326	1	2' - 6"	2' - 2"	1' - 2"		
104	a 104	Wall Hung Cabinet	326	2	3' - 0"	2' - 2"	1' - 2"		
104	a 104	Counter Top	-	1		2' - 10"	2' - 1"		3
104	a 104	Microwave Lower Cabinet	Custom	1	2' - 6"	2' - 8 1/2"	2' - 0"		
106	a 106	Base Cabinet w/o Drawers	100	1	3' - 6"	2' - 8 1/2"	2' - 0"		
106	a 106	Base Cabinet w/o Drawers	100	2	3' - 6"	2' - 8 1/2"	1' - 2"		
106	a 106	Base Cabinet w/ Drawers	223	1	2' - 6"	2' - 8 1/2"	2' - 0"		
106	a 106	Base Cabinet w/ Drawers	223	1	2' - 0"	2' - 8 1/2"	2' - 0"		
106	a 106	Base Cabinet w/ Drawers	254	2	2' - 0"	2' - 8 1/2"	2' - 0"		
106	a 106	Counter Top	-	1		2' - 10"	5' - 0"		2
106	a 106	Counter Top	-	1		3' - 3"	5' - 0"		1
117	a 117	Custom Casework	Custom	1	24' - 0"	3' - 7"	4' - 3"		4, 5
119	a 117	Base Cabinet w/ Drawers	223	1	1' - 11 3/4"	2' - 6 1/2"	2' - 0"		
119	a 117	Base Cabinet w/ Drawers	254	1	1' - 6"	2' - 6 1/2"	2' - 0"		
119	b 117	Base Cabinet w/ Drawers	223	1	3' - 0"	2' - 8 1/2"	2' - 0"		
119	b 117	Base Cabinet w/ Drawers	254	1	1' - 3"	2' - 8 1/2"	2' - 0"		
119	b 117	Wall Hung Cabinet	301	1	2' - 0"	3' - 0"	1' - 2"		
119	b 117	Wall Hung Cabinet	312	2	3' - 0"	3' - 0"	1' - 2"		
119	b 117	Counter Top	-	1		2' - 10"	2' - 1"		

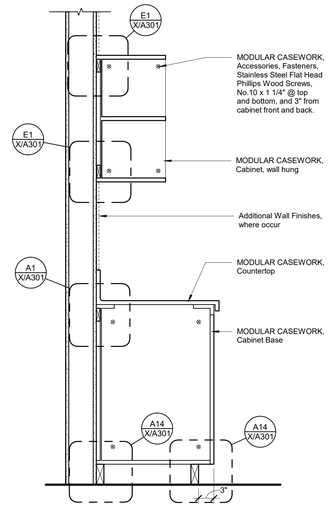
B

M1 — Modular Casework Schedule
No Scale



NOTE: Pre-Drill Guide Holes & Align Screw Heads. Countersink Screw Head Flush With Laminate Finish. Do Not Over Drive

L11 — MODULAR CASEWORK, Cabinet, Tall
1" = 1'-0"



NOTE: Pre-Drill Guide Holes & Align Screw Heads. Countersink Screw Head Flush With Laminate Finish. Do Not Over Drive

L14 — MODULAR CASEWORK, Cabinet, Wall Hung & Base
1" = 1'-0"

TYPICAL NOTES

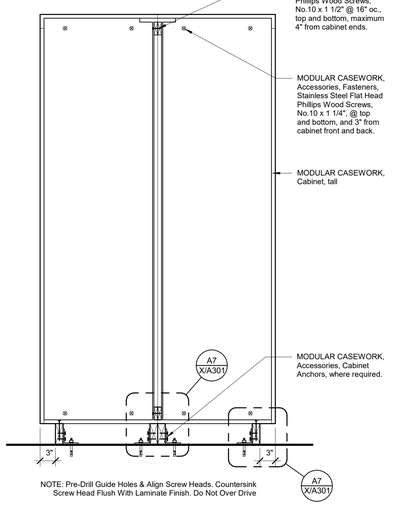
1. This schedule is provided for the convenience of the contractor. field verify all conditions and dimensions prior any fabrication
2. Schedule dimensions shall be considered nominal
3. See Sheet X/A301 for modular casework attachment and details.
4. All details, materials, and finishes shall be considered typical for all similar conditions unless noted otherwise.
5. W.I. Number cabinet designs with suffix "M" shall be modified as indicated or detailed.
6. Provide all filler pieces, scribe strips, flush panels and closures, matching modular cabinetwork, required to complete cabinetwork assemblies and close the finish surfaces.
7. Provide cabinet door and drawer locks at all cabinets unless noted otherwise.
8. All base cabinets, counters and desks shall have countertops constructed in accordance with the Architectural Woodwork Institute of Architectural Woodwork Standards, Section 11 for custom grade as modified by Specification Section 06 41 23, MODULAR CASEWORK, unless noted otherwise.

   P = premium grade
   E = economy grade
   C = custom grade
9. All cabinets shall be constructed in accordance with the Architectural Woodwork Institute of Architectural Woodwork Standards, Section 10 for custom grade as modified by Specification Section 06 41 23, MODULAR CASEWORK, unless noted otherwise.
10. All countertops shall be have 6" integral self coved Back and End Splashes, unless noted otherwise. Refer to interior elevations for splash heights which may vary in height. Align splashes with other materials, if shown to be aligned.
11. Base cabinet counter heights shall not exceed 34" in height, unless otherwise noted for undercounter equipment which requires at 36" counter height. In the event the interior elevations or cabinet schedule indicate a 36" counter height, the actual height shall be verified prior to and fabrication.
12. See MODULAR CASEWORK specification for shelves, typical.

REMARKS

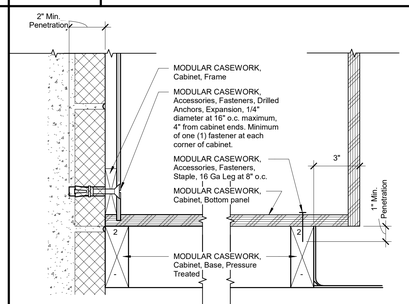
1. MODULAR CASEWORK, Countertop to be Butcher Block
2. MODULAR CASEWORK, Countertop to be Stainless Steel
3. MODULAR CASEWORK, Countertop to be Solid Surfacing
4. MODULAR CASEWORK, Custom Casework, see sheet X/A311
5. MODULAR CASEWORK, Provide Pony Wall COnstructed from modular casework panels with Solid surface cap and Swinging door as shown in Plan

J18 — MODULAR CASEWORK , Notes
No Scale

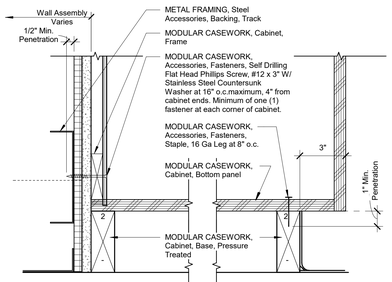


NOTE: Pre-Drill Guide Holes & Align Screw Heads. Countersink Screw Head Flush With Laminate Finish. Do Not Over Drive

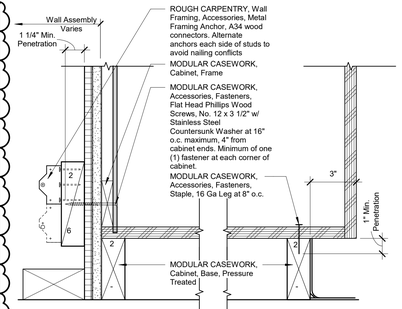
E11 — MODULAR CASEWORK, Cabinet, Free Standing, Tall
1" = 1'-0"



CONDITION AT CONCRETE MASONRY WALL



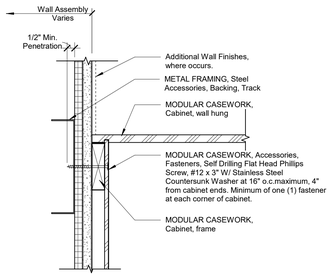
CONDITION AT METAL STUD WALL



CONDITION AT WOOD STUD WALL

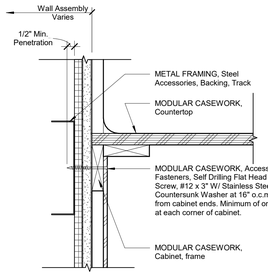
NOTE: Pre-Drill Guide Holes & Align Screws Heads. Do Not Over Drive

A14 — MODULAR CASEWORK, Cabinet Base Anchorage
3" = 1'-0"



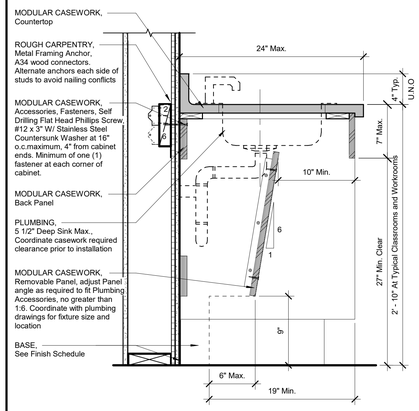
CONDITION @ METAL STUD WALL

E1 — MODULAR CASEWORK, Cabinet Wall Hung Anchorage
3" = 1'-0"

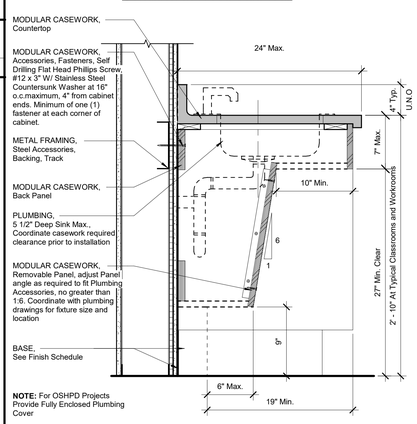


CONDITION @ METAL STUD WALL

A1 — MODULAR CASEWORK, Cabinet Base Anchorage
3" = 1'-0"



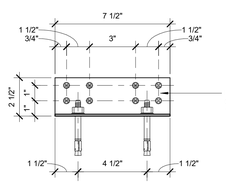
Condition at Wood Stud Wall



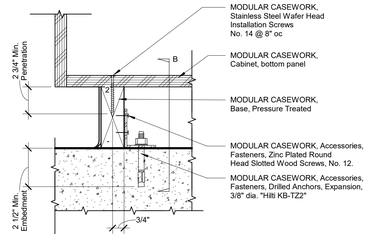
NOTE: For OSHPD Projects Provide Fully Enclosed Plumbing Cover

Condition at Metal Stud Wall

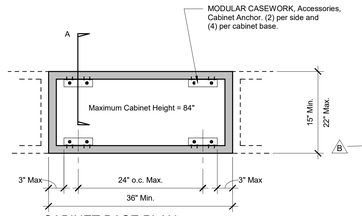
A4 — MODULAR CASEWORK, Cabinet Door, Accessible Sink Base
1 1/2" = 1'-0"



SECTION "B"



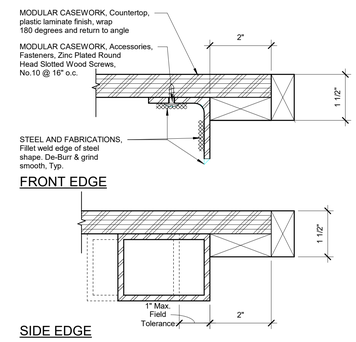
SECTION "A"



CABINET BASE PLAN

NOTE: Pre-Drill Guide Holes & Align Screw Heads. Countersink Screw Head Flush With Laminate Finish. Do Not Over Drive

A7 — MODULAR CASEWORK, Cabinet Base Anchorage
3" = 1'-0"



A11 — MODULAR CASEWORK, Countertop, Solid Stock Edges
6" = 1'-0"

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

TYPICAL INFORMATION
MODULAR CASEWORK SCHEDULE AND DETAILS
Drawing

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LICENSED ARCHITECT MATTHEW R. REISS No. C35878 Exp. 05-31-26 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

	Designed Designer	Copyright 2022 Darden Architects
Scale: As indicated	Drawn By: Author	X/A301
Project Number: 2310	Checked Checker	AD2-AX15
Date: 09/16/24	Reviewed Approver	

9/26/2024 2:39:33 PM
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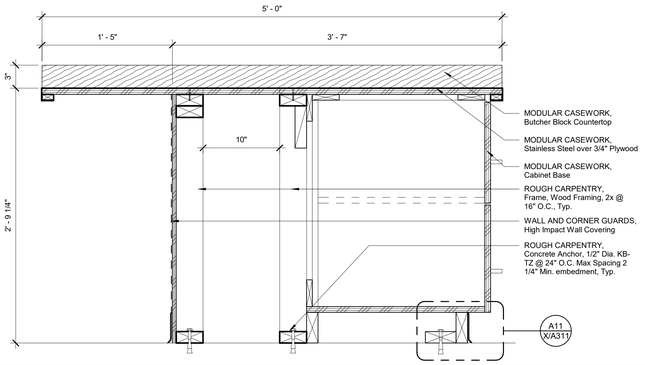
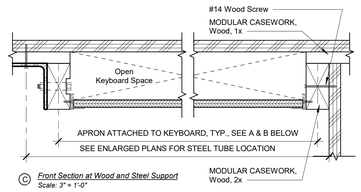
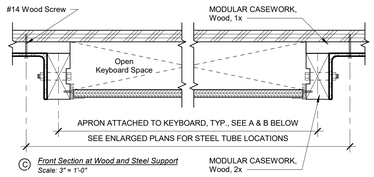


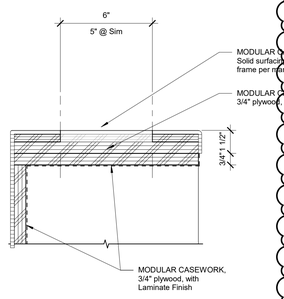
N1 — MODULAR CASEWORK, Kitchen Island Section A
1 1/2" = 1'-0"



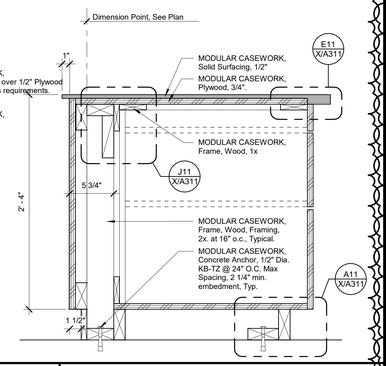
C Front Section at Wood and Steel Support
Scale: 3" = 1'-0"



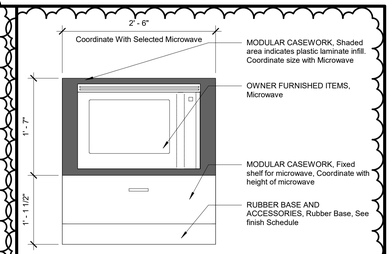
C Front Section at Wood and Steel Support
Scale: 3" = 1'-0"



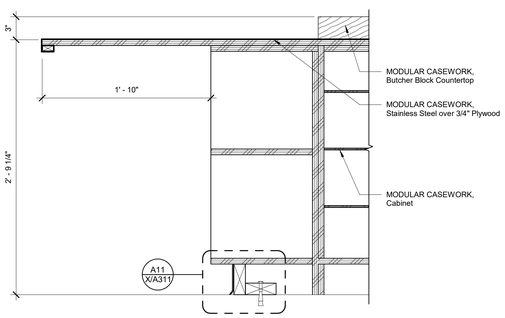
N11 — MODULAR CASEWORK, Admin Desktop Stand-offs
3" = 1'-0"



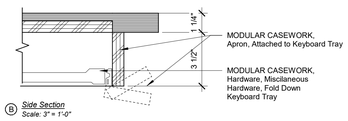
N14 — Admin Desk - Section
1 1/2" = 1'-0"



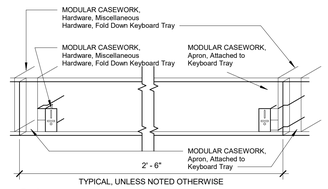
P18 — MODULAR CASEWORK, Custom Microwave Base Cabinet
1" = 1'-0"



J1 — MODULAR CASEWORK, Kitchen Island Section B
1 1/2" = 1'-0"



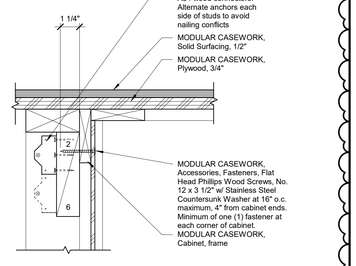
B Side Section
Scale: 3" = 1'-0"



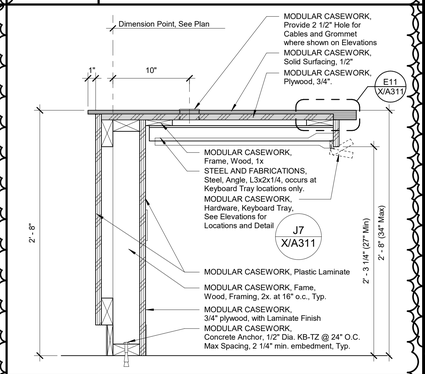
A Front
Scale: N.T.S.

See Elevations on Sheets A/A108, A/A109, and A/A110

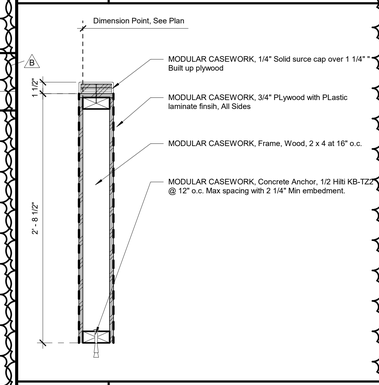
J7 — MODULAR CASEWORK, Hardware - Keyboard Tray
3" = 1'-0"



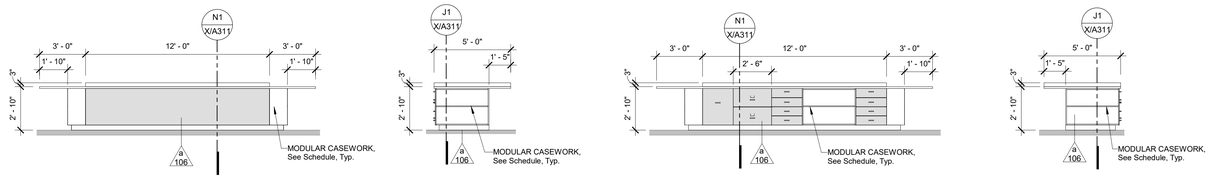
J11 — MODULAR CASEWORK, Cabinet Anchorage
3" = 1'-0"



J14 — Admin Desk - Section
1 1/2" = 1'-0"

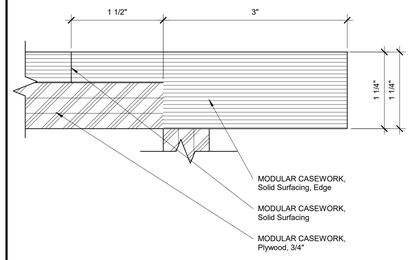


K18 — MODULAR CASEWORK, Pony Wall
1 1/2" = 1'-0"

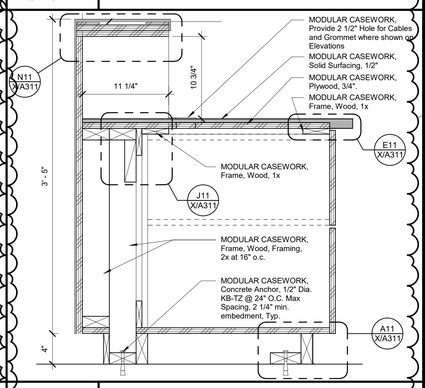


NOTE: Grey Hatch indicates locations where face of cabinets is to be WALL AND CORNER GUARDS, HIgh Impact Wall Covering in lieu of specified plastic laminate. Provide matching Edge Banding, Typ.

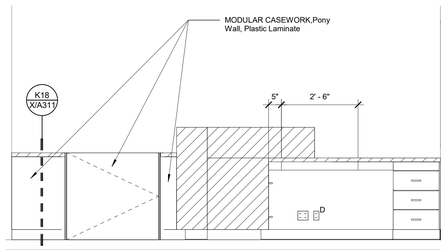
E1 — MODULAR CASEWORK, Kitchen Island Elevations
1/2" = 1'-0"



E11 — MODULAR CASEWORK, Admin Desk Edge Trim
6" = 1'-0"

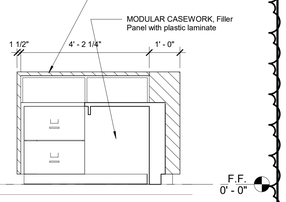


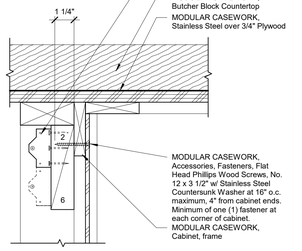
S14 — Admin Desk - Section
1 1/2" = 1'-0"



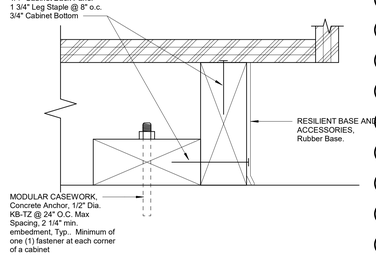
ELECTRICAL: Power and Data built into Casework, See Electrical

1 — 1 - c
1/2" = 1'-0"

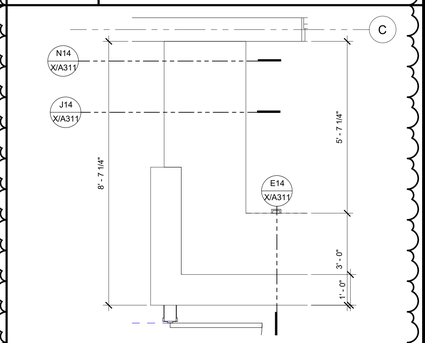




A7 — MODULAR CASEWORK, Cabinet Anchorage - Butcher Block
3" = 1'-0"



A11 — MODULAR CASEWORK, Casework - Base
6" = 1'-0"



A14 — Admin Desk - Enlarged Plan
1/2" = 1'-0"

1 — 1 - d
1/2" = 1'-0"

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

CUSTOM CASEWORK DETAILS
Drawing

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Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

	DesignedDesigner	Copyright 2022 Darden Architects
Scale: As indicated	Drawn By: Author	X/A311
Project Number: 2310	Checked IChecker	AD2-AX16
Date: 09/16/24	ReviewedApprover	

9/26/2024 2:39:35 PM
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Opening Schedule - Doors

Door No.	Frame Type	Size: Width	Size: Height	Size: Thickness	Door Material	Model No	Door Type	Glass Type	Louver Type	Head	Jamb	Threshold	Hardware: Group	Hardware: Keying Room No	Fire Rating	Comments
102 c	HM-1	3' - 0"	7' - 0"	1 3/4"	HM		F	-	-	N7/X/A603	J7/X/A603	E7/X/A603	78C	101/102		1
102 d	HM-2	2' - 8"	7' - 0"	1 3/4"	HM		HG		-	N7/X/A603	J7/X/A603	E7/X/A603	78C	102/106		1
103 b	HM-1	3' - 0"	7' - 0"	1 3/4"	HM		FNV		-	N7/X/A603	J7/X/A603	E7/X/A603	73	102		1
104 a	HM-3	4' - 0"	7' - 0"	1 3/4"	[illegible]		[illegible]		[illegible]	N7/X/A603	J7/X/A603	E7/X/A603	-	-		-
106 a	-	24' - 1 7/8"	8' - 1 1/2"	1 3/4"	AL		PD		-	N1/X/A603 & J1/X/A603	E1/X/A603	A1/X/A603	-	-		-
118 a	HM-1	3' - 0"	7' - 0"	1 3/4"	HM		F	-	-	N7/X/A603	J7/X/A603	E7/X/A603	-	-		1
119 a	HM-4	3' - 0"	2' - 10"	1 3/4"	HM		PF	-	-	-	J7/X/A603	E7/X/A603	10	-		-
120 a	HM-1	3' - 0"	7' - 0"	1 3/4"	HM		F	-	-	N7/X/A603	J7/X/A603	E7/X/A603	99C	120		1,2

B

N9 Opening Schedule, Doors

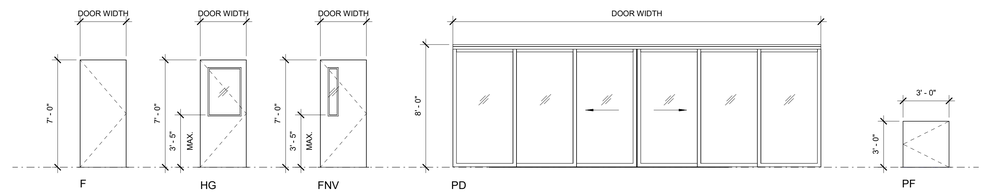
N.T.S. Refer to F18 for Legend Abbreviations, Notes and Comments

Opening Schedule - Windows

Window No.	Frame Type	Size: Width	Size: Height	Material	Head	Jamb	Sill	Glazing Type	Fire Rating	Comments
102 a	HM-5	6' - 0"	4' - 0"	HM	N1/X/A603	J1/X/A603	E1/X/A603	G1-1T		
102 b	HM-5	6' - 0"	4' - 0"	HM	N1/X/A603	J1/X/A603	E1/X/A603	G1-1T		
103 a	HM-5	6' - 0"	4' - 0"	HM	N1/X/A603	J1/X/A603	E1/X/A603	G1-1T		

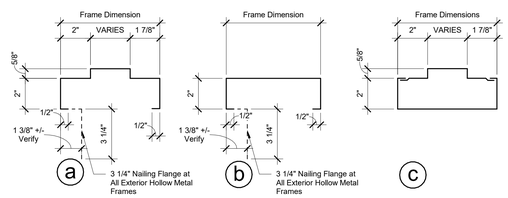
K9 Opening Schedule, Windows

N.T.S. Refer to F18 for Legend Abbreviations, Notes and Comments



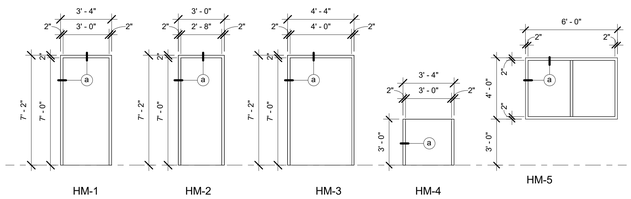
G9 Door Types

1/4" = 1'-0" .



D9 Hollow Metal Frame Details

3" = 1'-0"



A9 Opening Frame Elevations

1/4" = 1'-0" .

HARDWARE GROUP NO. 10 – BI-FOLD DOOR

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HW HINGE	1303-3	US26D	HAG

HARDWARE GROUP NO. 73 – CLASSROOM SECURITY LOCK - INTERIOR CLASSROOMS

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	CLASSROOM SECURITY	ND73TD SPA XN12-035	626	SCH
1 EA	PRIMUS CORE	20-740	626	SCH
1 EA	FLOOR STOP	F18S	626	IVE
3 EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 78C – CLASSROOM SECURITY LOCK - INTERIOR / CLASSROOMS

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	CLASSROOM SECURITY	ND78TD SPA XN12-035	626	SCH
2 EA	PRIMUS CORE	20-740	626	SCH
1 EA	FLOOR STOP	F18S	626	IVE
3 EA	SILENCER	SR64	GRY	IVE
1 EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN

HARDWARE GROUP NO. 99C – INTERIOR DOOR WITH PANIC HARDWARE

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	PANIC HARDWARE	CD-AX-99-NL-OP-110MD-PA	626	VON
1 EA	RIM CYLINDER	20-057-ICX	626	SCH
1 EA	MORTISE CYLINDER	20-061-ICX XQ11-948 (DOGGING)	626	SCH
2 EA	PRIMUS CORE	20-740	626	SCH
1 EA	DOOR PULL	VR910 NL	630	IVE
1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	FLOOR STOP	F18S	626	IVE
3 EA	SILENCER	SR64	GRY	IVE

A14 Door Frame Hardware Groups

1/4" = 1'-0" .

ABBREVIATIONS

OSS	- STEEL WINDOWS, Frames, Operable Steel Sash, Refer to sheet: X/XXXX.	AC	- Acoustical
SG	- Steel Gate	SS	- Stainless Steel
SW	- Service Window	CL	- Chain Link
STL	- Steel	WD	- Wood
AL	- Aluminum	CD	- COILING DOORS,
SF	- Storefront	GALV	- Galvanized Finish
HM	- Hollow Metal	S&F	- Steel and Fabrications
SG	- Site Gate	RO	- Rough Opening
SPF	- Steel Post Fence		

GENERAL NOTES

1. This schedule is provided for the convenience of the General Contractor. Dimensions indicated are nominal dimensions.
2. The General Contractor is responsible for all coordination and review of drawings and verifying all field conditions and dimensions prior to fabrication. Not all detail references are included in the schedule.
3. All details, materials and finishes shall be considered typical for all similar conditions unless noted otherwise.
4. Door Types are shown on sheet X/A410.
5. Frame Types are shown on sheets X/A410
6. For material transition at doors see E7-X/A603
7. Exit Doors shall be openable from inside without the use of a key or any special knowledge or effort.
8. For opening Head, Jamb, and Sill framing conditions, see Structural Drawings.
9. Doors, and sidelites adjacent to doors, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the floor, This shall not apply if all Glazing Panels are 66" or greater above the Finish Floor.

B

OPENING SCHEDULE COMMENTS

1 HARDWARE, Floor Stop, See detail E4-X/A601.

2 HARDWARE, Exit/Panic Devices, section HARDWARE, where occurs.

G18 Opening Schedule Legend

No Scale

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Project

TYPICAL INFORMATION
OPENING SCHEDULES

Drawing

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LICENSED ARCHITECT MATTHEW R. PERRY No. C35878 Exp. 06-30-09 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

Designed Designer

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Scale: As indicated
Drawn By: Author
Project Number: 2310
Checked IChecker
Date: 09/16/24
Reviewed Approver

X/A401
AD2-AX17

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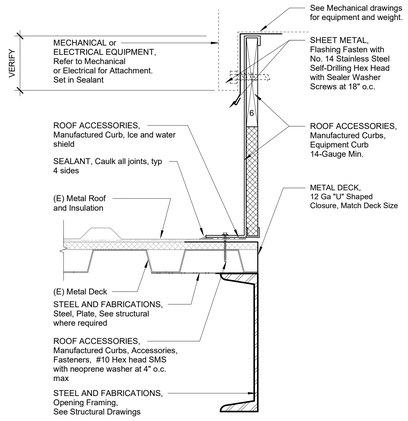
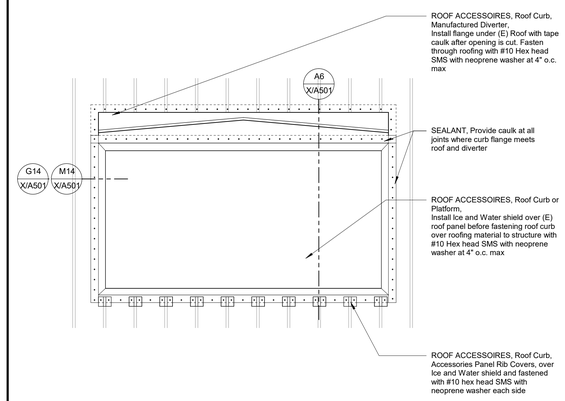


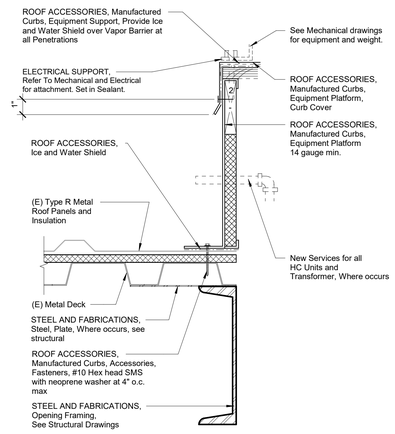
M14 — ROOF ACCESSORIES, Manufactured Curbs, Equipment

3" = 1'-0"



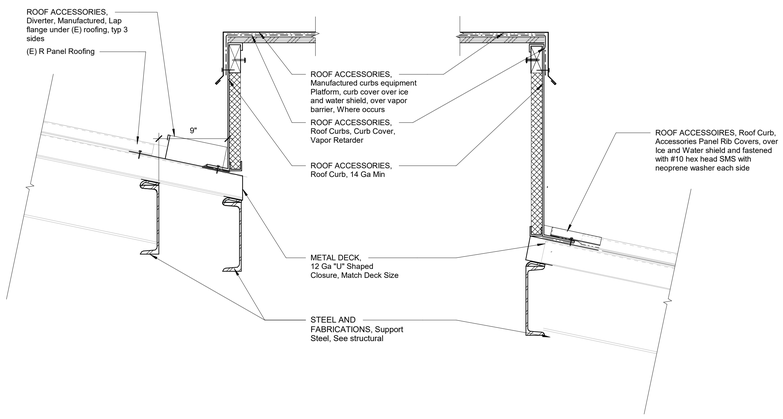
G9 — Enlarged Curb/Platform Plan

1/2" = 1'-0"



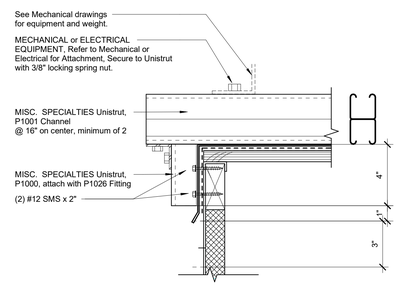
G14 — ROOF ACCESSORIES, Manufactured Curbs, Equipment Platform

3" = 1'-0"



A6 — ROOF ACCESSORIES, Manufactured Curbs, Equipment Platform

1 1/2" = 1'-0"



A14 — MISCELLANEOUS SPECIALTIES, Attachment Detail to Equipment Platform

3" = 1'-0"

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Project

EXTERIOR DETAILS

Drawing

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LICENSED ARCHITECT MATTHEW R. PEREZ No. C35878 Exp. 06-30-08 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

Designed Designer
Drawn By: Author
Checked Checker
Reviewed Approver

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Scale: As indicated
Project Number: 2310
Date: 09/16/24

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AD2-AX18

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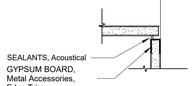
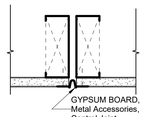
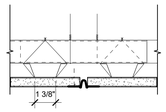


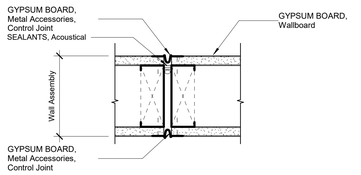
Ceiling Perimeter Relief



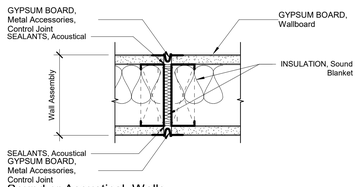
Framed Ceilings



Suspended Ceilings



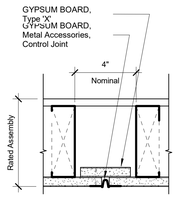
Typical Walls



Sound or Acoustical Walls

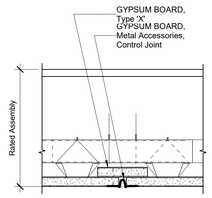
NOTE:
1. Unless Otherwise indicated Control Joint shall be provided at continuous Interior Partitions with uninterrupted planes that exceed 30'-0" in length or 900 sf in area.
2. Unless Otherwise indicated Control Joint shall be provided at continuous Ceilings with uninterrupted planes that exceed 50' in length or 2500 sf in area with perimeter relief, or Ceilings exceeding 30'-0" in length or 900 sf in area without perimeter relief.

J1 — GYPSUM BOARD, Metal Accessories, Control Joints, Non-Rated Wall and Ceilings
3" = 1'-0"



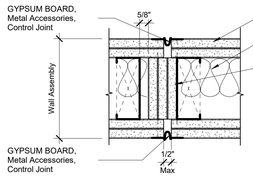
Framed Floor/Ceiling

Gypsum Association GA-234-08



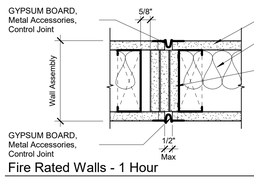
Suspended Ceilings

Gypsum Association GA-234-08



Fire Rated Walls - 2 Hour

Gypsum Association GA-234-08

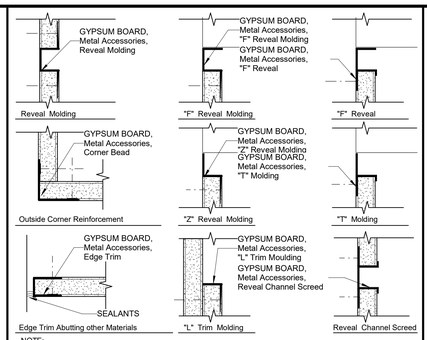


Fire Rated Walls - 1 Hour

Gypsum Association GA-234-08

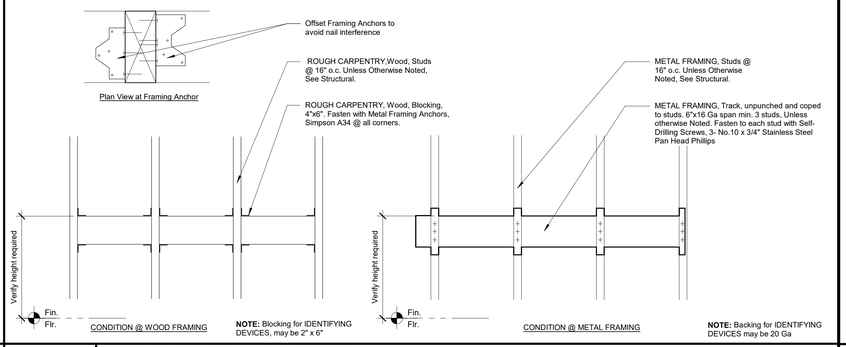
NOTE:
1. Unless otherwise indicated Control Joints shall be provided at continuous Interior Walls or Partitions with uninterrupted planes that exceed 30'-0" in length or 900 sf in Area.
2. Unless otherwise indicated Control Joints shall be provided at continuous Interior Ceilings with uninterrupted planes exceeding 30' in length or 900 sf in Area.
3. Fire Resistive Conditions shall take precedence over Sound or Acoustical Wall Construction

J4 — GYPSUM BOARD, Metal Accessories, Control Joints, Fire Resistive Construction
3" = 1'-0"



NOTE:
1. Details Shall apply at Similar GYPSUM BOARD Accessories and Trim not specifically shown.
2. Reveals and Moldings shall be provided with Factory Fabricated Intersections, Inside Corners, Outside Corners and End Caps

N7 — GYPSUM BOARD, Metal Accessories
6" = 1'-0"



CONDITION @ WOOD FRAMING

NOTE: Blocking for IDENTIFYING DEVICES, may be 2" x 6"

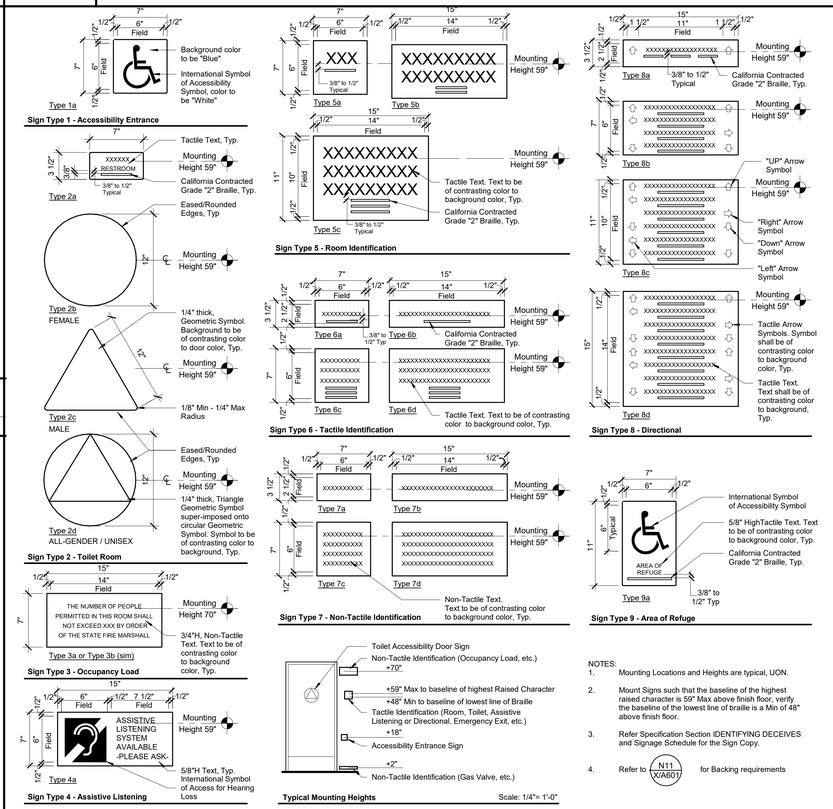
CONDITION @ METAL FRAMING

NOTE: Backing for IDENTIFYING DEVICES may be 20 Ga

N11 — METAL FRAMING / ROUGH CARPENTRY , Backing Detail
1" = 1'-0"

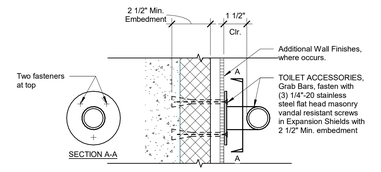
NOTES
1. GYPSUM BOARD, Metal Accessories, Refer to Detail N7/X601

N18 — Interior Detail Notes
No Scale

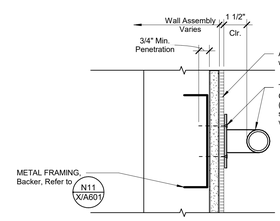


NOTES:
1. Mounting Locations and Heights are typical, UON.
2. Mount Signs such that the baseline of the highest raised character is 59" Max above finish floor, verify the baseline of the lowest line of braille is a Min of 48" above finish floor.
3. Refer Specification Section IDENTIFYING DECEIVES and Signage Schedule for the Sign Copy.
4. Refer to N11/X/A601 for Backing requirements

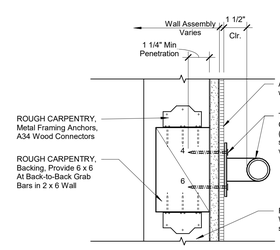
E11 — IDENTIFYING DEVICES, Signage Locations and Dimensions
1 1/2" = 1'-0"



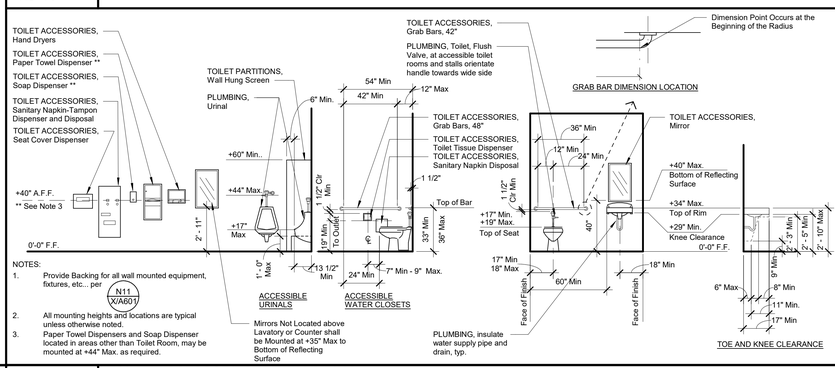
CONDITION @ CONCRETE MASONRY UNIT



CONDITION @ METAL FRAMING

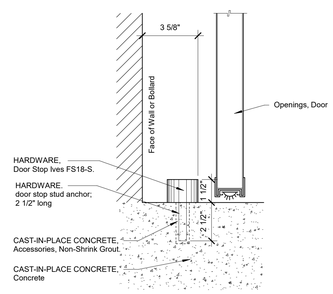


CONDITION @ WOOD FRAMING



NOTES:
1. Provide Backing for all wall mounted equipment, fixtures, etc... per N11/X/A601
2. All mounting heights and locations are typical unless otherwise noted.
3. Paper Towel Dispensers and Soap Dispenser located in areas other than Toilet Room, may be mounted at +44" Max. as required.

A11 — TOILET ACCESSORIES AND PLUMBING FIXTURES,
1/4" = 1'-0"



E4 — HARDWARE, Door Stop at Exterior & Interior
3" = 1'-0"

A7 — TOILET ACCESSORIES, Grab Bars
3" = 1'-0"

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Project

TYPICAL INFORMATION
INTERIOR DETAILS

Drawing

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Architect

No.	Revision/Submission	Date
A	Addendum 1	09/16/24
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

		Designed Designer	Copyright 2022 Darden Architects
Scale:	As indicated	Drawn By: Author	X/A601
Project Number:	2310	Checked Checker	AD2-AX19
Date:	09/16/24	Reviewed Approver	

9/26/2024 2:39:38 PM
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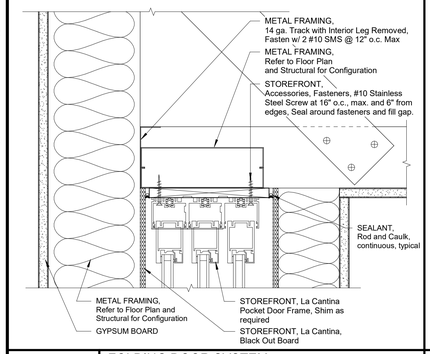
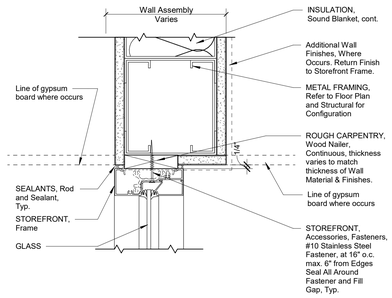
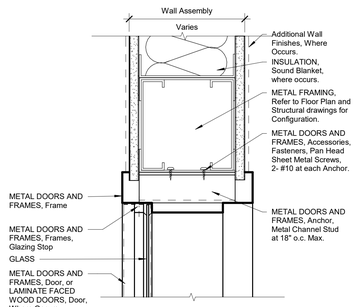


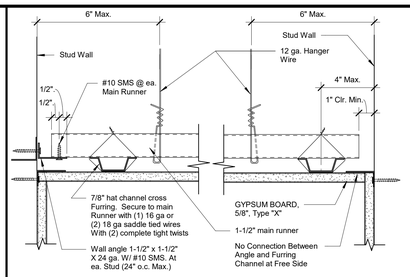
N1 | FOLDING DOOR SYSTEM, Head Section A
3" = 1'-0"

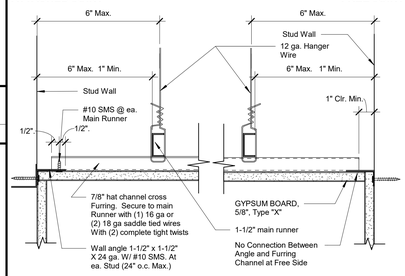


N4 | STOREFRONT, Head at Interior Window
3" = 1'-0"

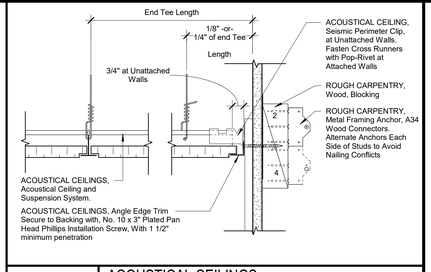


N7 | METAL DOORS AND FRAMES, Head and Interior
3" = 1'-0"

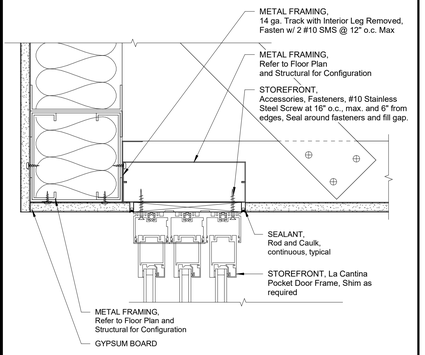




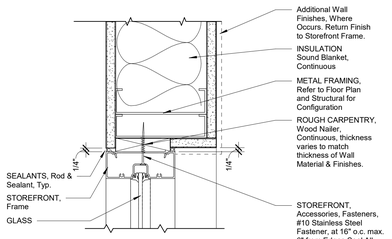
L11 | GYPSUM BOARD, Ceiling Edge Detail
3" = 1'-0"
OSHPD, OPD, CG2.30



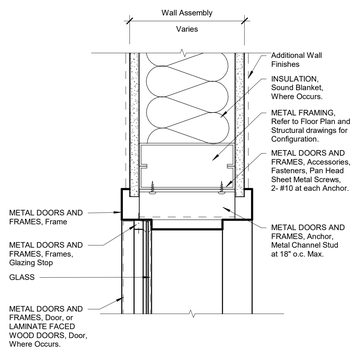
P14 | ACOUSTICAL CEILINGS, Perimeter Ceiling Detail
3" = 1'-0"



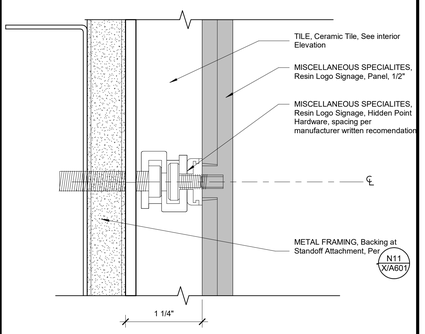
J1 | FOLDING DOOR SYSTEM, Head Section B
3" = 1'-0"



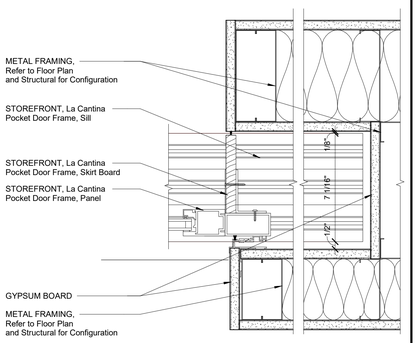
J4 | STOREFRONT, Jamb at Interior Window
3" = 1'-0"



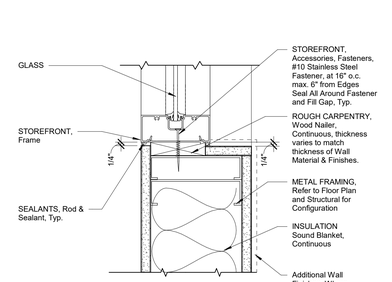
J7 | METAL DOORS AND FRAMES, Jamb at Interior
3" = 1'-0"



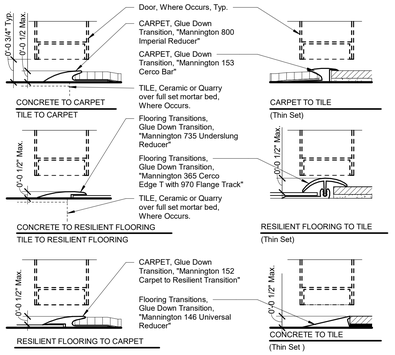
E14 | MISCELLANEOUS SPECIALTIES, Resin Logo Signage, Attachment
12" = 1'-0"



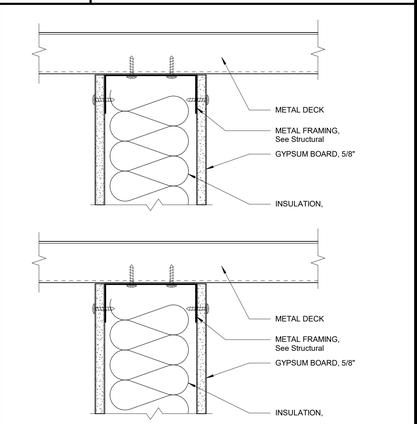
E1 | FOLDING DOOR SYSTEM, Jamb Section
3" = 1'-0"



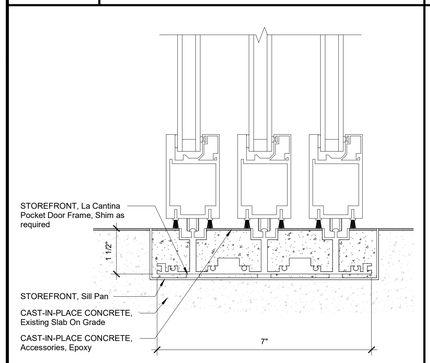
E4 | STOREFRONT, Sill at Interior Window
3" = 1'-0"



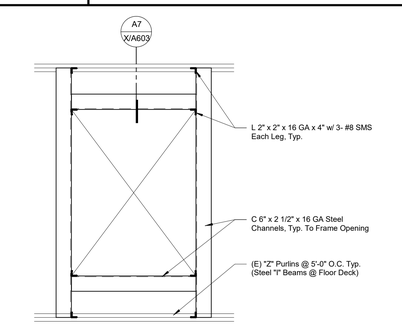
E7 | Flooring Transitions, at Interior
3" = 1'-0"



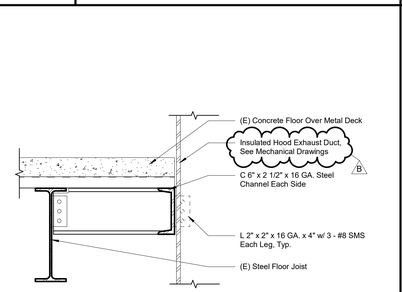
A14 | METAL FRAMING, 1 Hour Rated Wall at Metal Deck
3" = 1'-0"



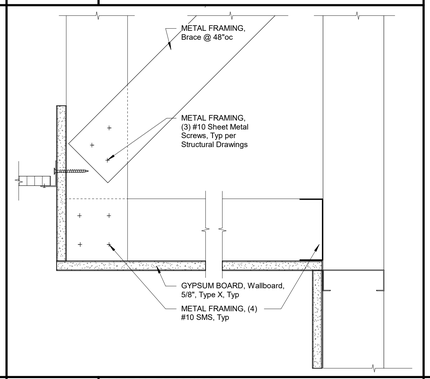
A1 | FOLDING DOOR SYSTEM, Threshold Section
6" = 1'-0"



A4 | METAL FRAMING, Mechanical Duct Opening Plan
1/2" = 1'-0"



A7 | METAL FRAMING, Mechanical Duct Floor Deck Opening
1 1/2" = 1'-0"



A11 | METAL FRAMING, Soffit Framing
3" = 1'-0"

Child Nutrition Kitchen
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INTERIOR DETAILS
Drawing

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Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

	Designed Designer	Copyright 2022 Darden Architects
Scale: As indicated	Drawn By: Author	X/A603
Project Number: 2310	Checked Checker	AD2-AX20
Date: 09/16/24	Reviewed Approver	

9/26/2024 2:39:40 PM
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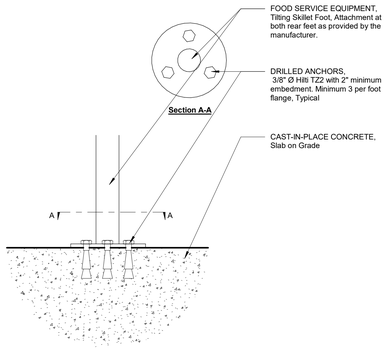
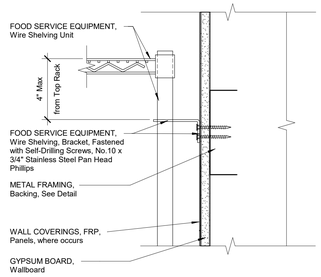


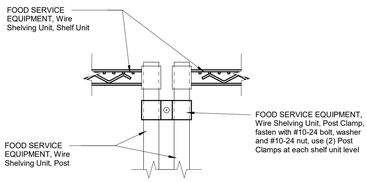
N7 — FOOD SERVICE EQUIPMENT, Tilting Skillet Foot Attachement

3" = 1'-0"



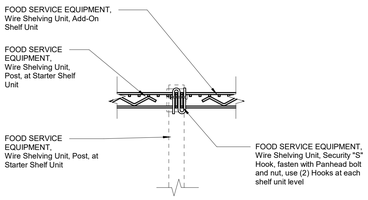
Wall Bracket

At Post to Wall Connection



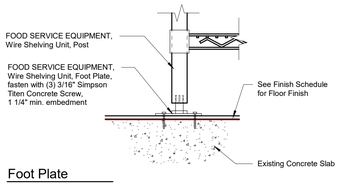
Post Clamps

At Post to Post Connection, where no wall to unit attachment is possible



Security "S" Hook

At Shelf to Shelf Connection



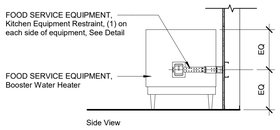
Foot Plate

At Non-Wall Bracketed Locations

Note:
Refere to the west interior elevation at Room 10- Dry Storage, Sheet B/A601 for typical Secutity connection layout

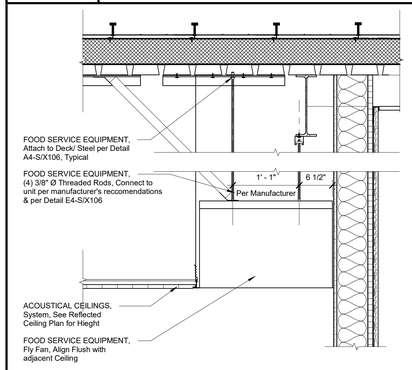
A7 — FOOD SERVICE EQUIPMENT, Wire Shelving Unit, Security Connectors

3" = 1'-0"



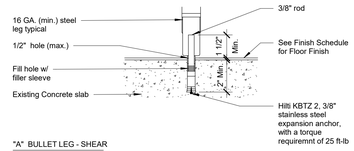
P11 — FOOD SERVICE EQUIPMENT, Kitchen Equipment Restraint Elevation

1/2" = 1'-0"

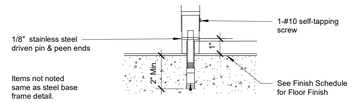


G11 — FOOD SERVICE EQUIPMENT, Fly Fan Attachment

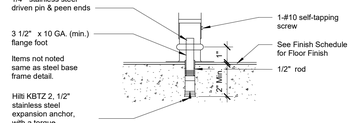
1" = 1'-0"



"A" BULLET LEG - SHEAR



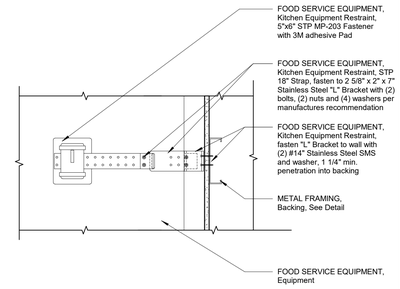
"B" BULLET LEG - SHEAR & UPLIFT



"C" FLANGED FOOT - SHEAR & UPLIFT

A11 — FOOD SERVICE EQUIPMENT, Guidelines for Seismic Restraint

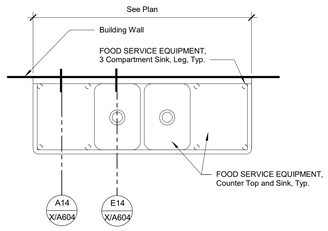
3" = 1'-0"



NOTE: at Full size Self Cooking Center provide (2) STP MP-203 per side.

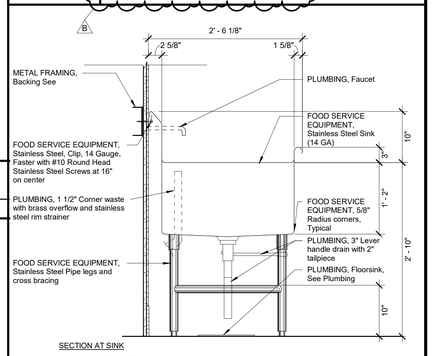
N14 — FOOD SERVICE EQUIPMENT, Kitchen Equipment Restraint

1 1/2" = 1'-0"



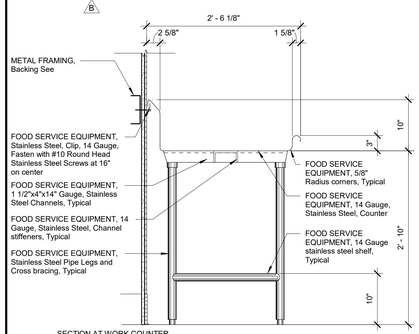
J14 — FOOD SERVICE EQUIPMENT, 2 Compartment Sink

1/2" = 1'-0"



E14 — FOOD SERVICE EQUIPMENT, 2 Compartment Sink

1" = 1'-0"



A14 — FOOD SERVICE EQUIPMENT, 2 Compartment Sink

1" = 1'-0"

Similar at Dish Washing

Child Nutrition Kitchen
Madera Unified School District
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Project

KITCHEN EQUIPMENT DETAILS

Drawing

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LICENSED ARCHITECT MATTHEW R. DARDEN No. C35878 Exp. 06-31-08 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

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		Designed	Designer
Scale:	As indicated	Drawn By:	Author
Project Number:	2310	Checked	fChecker
Date:	09/16/24	Reviewed	Approver

X/A604

AD2-AX21

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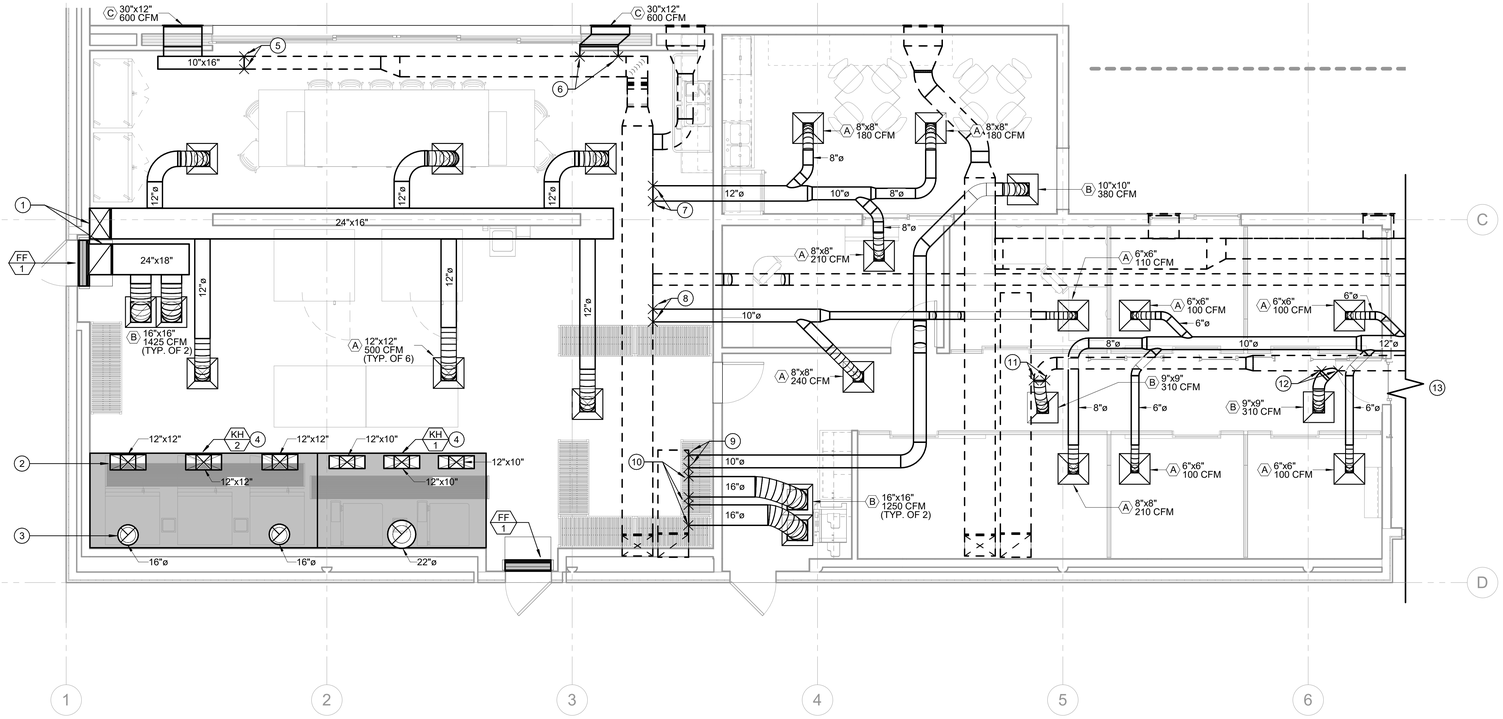
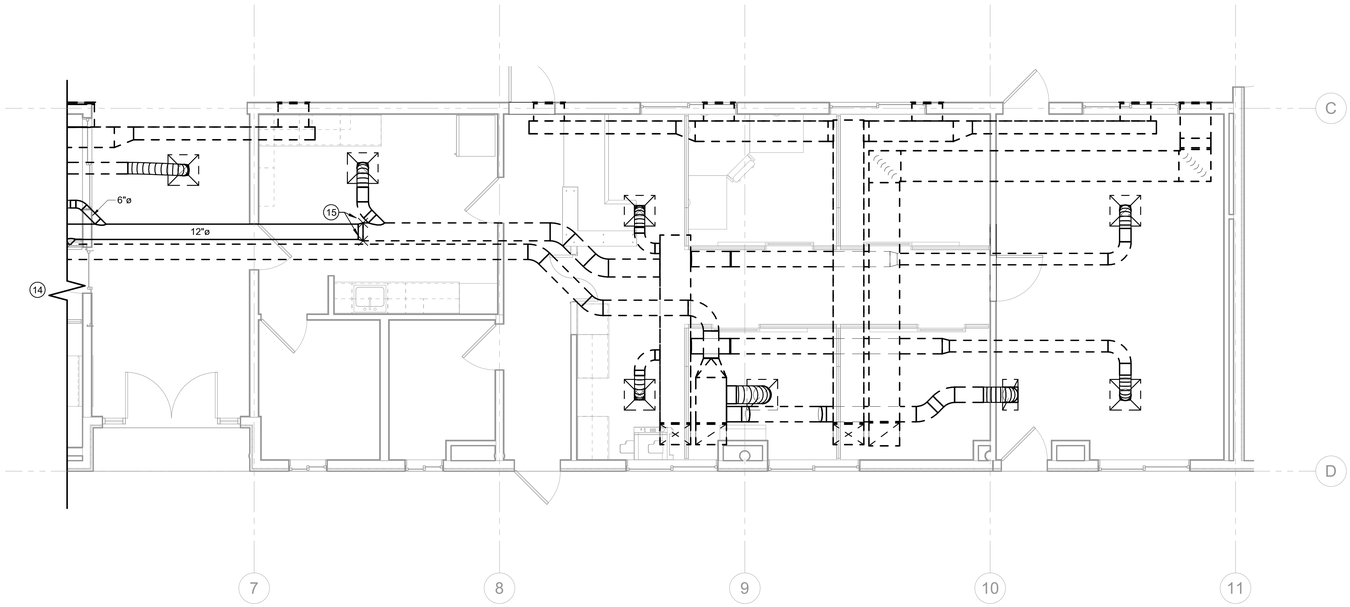


J1 | PROPOSED MECHANICAL FLOOR PLAN - NORTH

1/4" = 1'-0"



A1 | PROPOSED MECHANICAL FLOOR PLAN - SOUTH

1/4" = 1'-0"

KEYNOTES

1 DUCT RISERS TO (RELOCATED) HC ON ROOF. SEE A1-M310 FOR SECOND FLOOR ROUTING.
2 SUPPLY RISER TO (N) MUA-1 ON ROOF. SEE A1-M310 FOR SECOND FLOOR ROUTING. (TYP OF 4).
3 EXHAUST RISER TO (N) EF-1 ON ROOF. SEE DETAIL J4-X/M800 FOR FIRE WRAP CONNECTION TO HOOD. SEE SHEET A/M310 FOR ROUTING. (TYP OF 3).
4 (N) KITCHEN HOOD. SEE REFLAN AND X/M800 FOR INSTALLATION.
5 POC OF (N) 10"x16" TO (E) 10"x16".
6 POC OF (N) 30"x12" TO (E) 16"x16".
7 POC OF (N) 12"Ø TO (E) 24"x16"
8 POC OF (N) 10"Ø TO (E) 24"x16"
9 POC OF (N) 10"Ø TO (E) 24"x18"
10 POC OF (N) 16"Ø TO (E) 24"x18"
11 POC OF (N) 9"Ø TO (E) 9"Ø
12 POC OF (N) 9"Ø TO (E) 12"Ø
13 SEE A1-A/M302 FOR CONTINUATION.
14 SEE J1-A/M302 FOR CONTINUATION.
15 TRANSITION (N) 12"Ø TO (E) 14"Ø

GENERAL NOTES

A. SEE DETAIL N11-X/M800 FOR TYPICAL CEILING GRILLE INSTALLATION.

B. SEE DETAIL J11-X/M800 FOR TYPICAL BRANCH DUCT CONNECTIONS.

C. SEE DETAIL E11-X/M800 FOR TYPICAL DUCT SUPPORTS.

D. PROVIDE FIRE WRAPPING FOR (N) EXHAUST DUCT. SEE DETAIL A7-X/M800 FOR GENERAL INSTRUCTIONS. (N) KITCHEN EXHAUST SYSTEM TO BE INSTALLED IN ACCORDANCE WITH 2024 NFPA 96

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1407

Agency Approval

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Project

ENLARGED PROPOSED MECHANICAL FLOOR PLAN

Drawing

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Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

Designed By: JS
Drawn By: MI
Checked By: HB
Reviewed By: HB

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Scale: As indicated
Project Number: 2310
Date: 2024/09/19

A/M302
AD2-MX01

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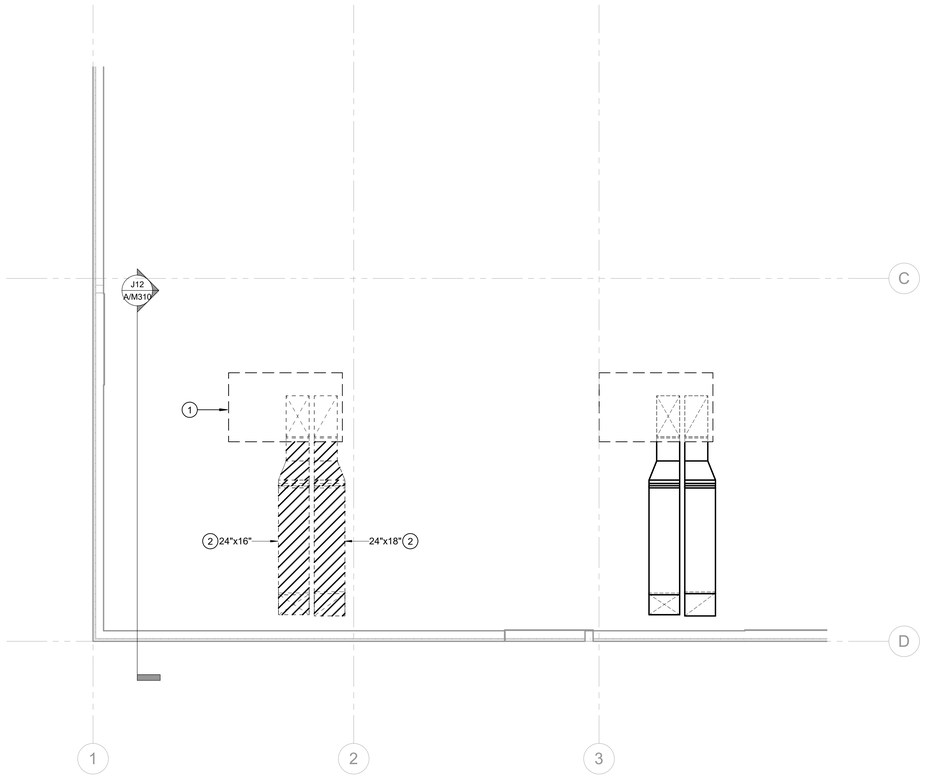
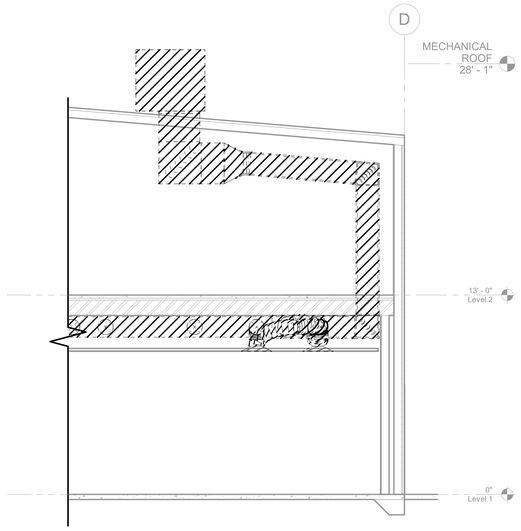


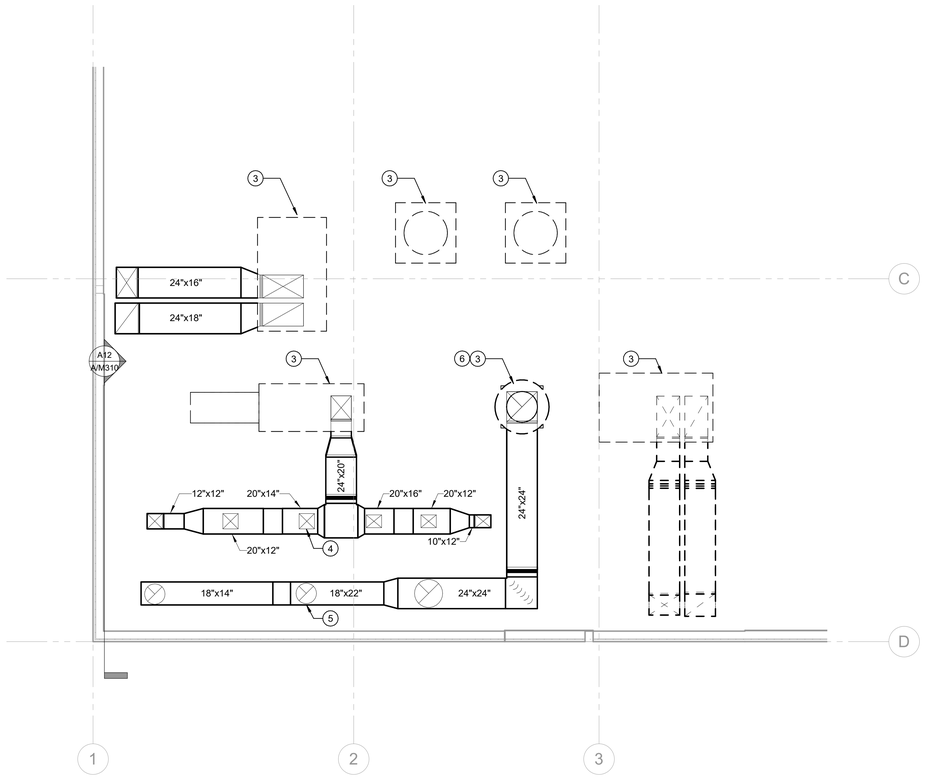
J1 — PARTIAL MECHANICAL DEMOLITION SECOND FLOOR PLAN

1/4" = 1'-0"



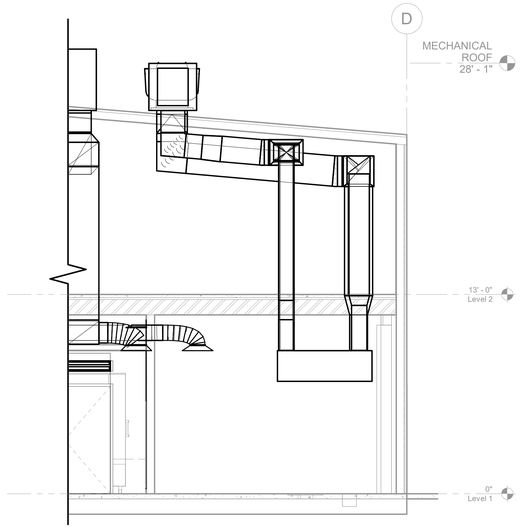
J12 — SECOND FLOOR DUCT DEMOLITION SECTION

1/4" = 1'-0"



A1 — PARTIAL PROPOSED MECHANICAL SECOND FLOOR PLAN

1/4" = 1'-0"



A12 — KITCHEN HOOD SECTION

N.T.S.

KEYNOTES

1 (E) HC ON ROOF TO BE RELOCATED. SEE SHEET A/M500 FOR ROOF LAYOUT.
2 DEMO (E) DUCT WHERE SHOWN HATCHED.
3 MECHANICAL EQUIPMENT ON ROOF. SEE SHEET A/M500 FOR ROOF LAYOUT.
4 SUPPLY DROP TO (N) KH-1 & (N) KH-2 BELOW. SEE SHEET A/M302 FOR SIZING AND LAYOUT. (TYP OF 3)
5 EXHAUST DROP TO (N) KH-1 & (N) KH-2 BELOW. SEE SHEET A/M302 FOR SIZING AND LAYOUT. (TYP OF 3)
6 SEE DETAIL N4-X/M800 FOR FIRE WRAP CONNECTION TO EXHAUST FAN.

B

GENERAL NOTES

A. SEE DETAIL N11-X/M800 FOR TYPICAL CEILING GRILLE INSTALLATION.

B. SEE DETAIL J11-X/M800 FOR TYPICAL BRANCH DUCT CONNECTIONS.

C. SEE DETAIL E11-X/M800 FOR TYPICAL DUCT SUPPORTS.

D. PROVIDE FIRE WRAPPING FOR (N) EXHAUST DUCT. SEE DETAIL A7-X/M800 FOR GENERAL INSTRUCTIONS.

E. PROVIDE MIN. SLOPE OF 1/4" PER LINEAR FOOT OF HORIZONTAL EXHAUST DUCT. (N) KITCHEN EXHAUST SYSTEM TO BE INSTALLED IN ACCORDANCE WITH 2024 NFPA 96

B

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1407

Agency Approval

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Project

PARTIAL MECHANICAL SECOND FLOOR PLAN

Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
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6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

Designed By: JS

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Scale: As indicated
Drawn By: MI
Project Number: 2310
Checked By: HB
Date: 2024/09/19
Reviewed By: HB

A/M310
AD2-MX02

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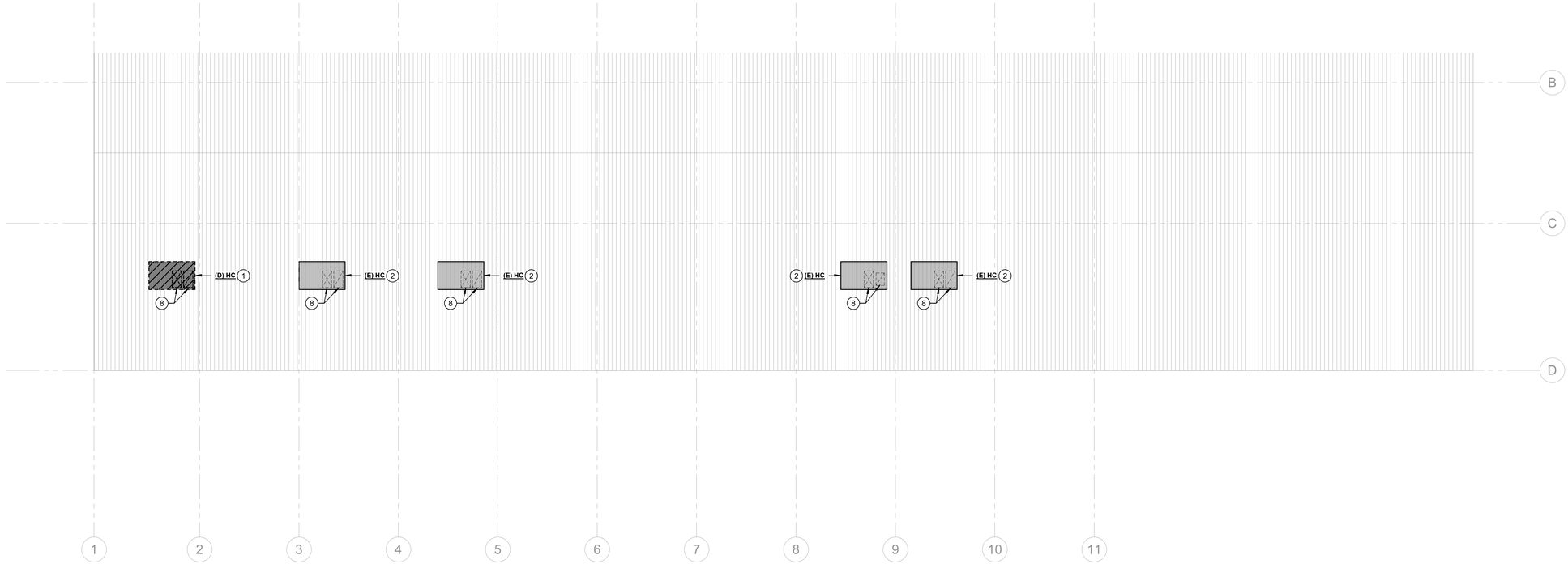
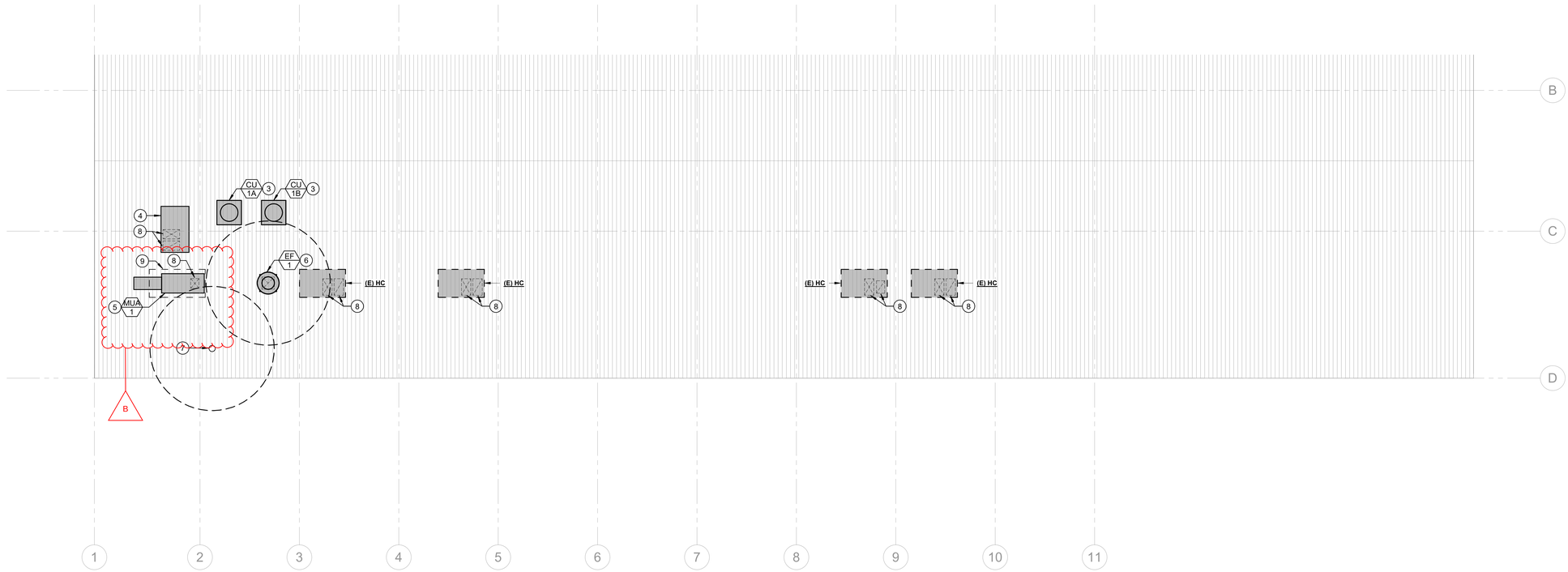


J1

1/8" = 1'-0"

MECHANICAL DEMOLITION ROOF PLAN



A1

1/8" = 1'-0"

PROPOSED MECHANICAL ROOF PLAN

KEYNOTES

1. REMOVE AND PROTECT (E) HC FOR RELOCATION. PRESERVE PENETRATIONS FOR (N) PLATFORM. SEE A1-A/M500.
2. (E) HC TO REMAIN.
3. (N) CONDENSING UNIT SERVING BLAST CHILLER. SEE DETAIL A14-X/M800 FOR INSTALLATION.
4. RELOCATED (E) HC. SEE DETAIL J14-X/M800 FOR MOUNTING.
5. (N) MUA-1 SEE DETAIL E14-X/M800 FOR ATTACHMENT TO PLATFORM.
6. (N) EF-1. SEE DETAIL N14-X/M800 FOR INSTALLATION.
7. (N) PLUMBING VENT. SEE PLUMBING PLANS.
8. DUCT DROP FROM MECHANICAL UNIT ON ROOF TO SPACE BELOW. SEE SHEETS A/M302 AND A/M310 FOR ROUTING.
9. (N) MECHANICAL EQUIPMENT PLATFORM. EXTEND (E) PENETRATIONS AS NEEDED FOR (N) PLATFORM.

B

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1407

REGISTERED PROFESSIONAL ENGINEER JONATHAN C. SCHLOMER M35955 Exp. 06-30-20 MECHANICAL STATE OF CALIFORNIA

Agency Approval

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Project

MECHANICAL PARTIAL ROOF PLAN

Drawing

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LICENSED ARCHITECT ROBERT L. PETTIGREW No. C15968 Exp. 11-30-21 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

Designed By: JS
Drawn By: MI
Checked By: HB
Reviewed By: HB

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Scale: As indicated
Project Number: 2310
Date: 2024/09/19

A/M500
AD2-MX03

9/25/2024 8:17:02 AM
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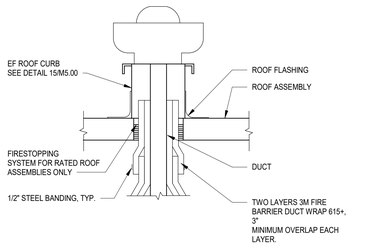
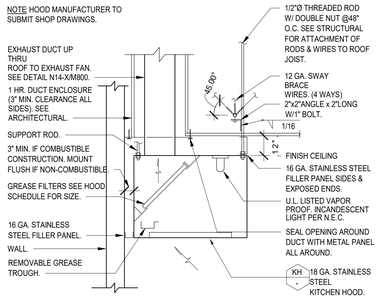
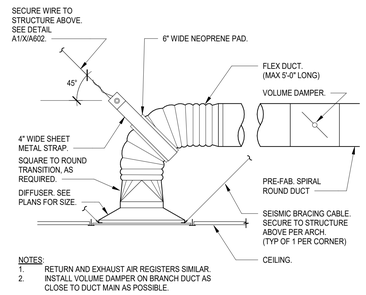
NOTE:
1. REFER TO A7/X/M800 FOR 3M GENERAL INSTRUCTIONS. ALL FIRE BARRIER DUCT WRAP TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
2. DUCTS EQUAL OR GREATER THAN 24" WIDE REQUIRE PINNING ON THE BOTTOM SIDE OF HORIZONTAL DUCTS AND ON A MINIMUM OF ONE OF THE WIDER SIDES OF A VERTICAL DUCT.
3. REFER TO DETAIL 1/M5.02 AND 5/M5.02 FOR REQUIRED LAYER OVERLAP SPACING.



N4 — FIRE WRAP TO EF CONNECTION
N.T.S.

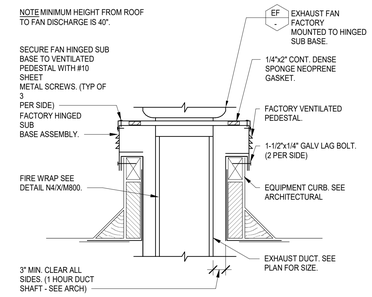


N7 — KITCHEN HOOD INSTALLATION
N.T.S.



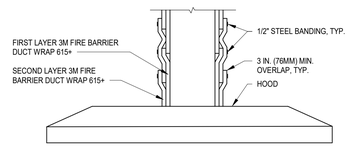
NOTES:
1. RETURN AND EXHAUST AIR REGISTERS SIMILAR.
2. INSTALL VOLUME DAMPER ON BRANCH DUCT AS CLOSE TO DUCT MAIN AS POSSIBLE.

N11 — CEILING GRILLE
N.T.S.

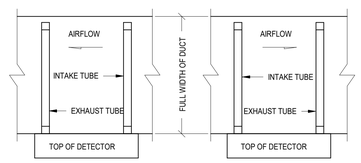


N14 — KITCHEN EXHAUST FAN ON VENTED HOOD
N.T.S.

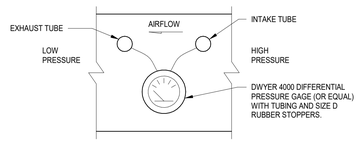
NOTE:
1. REFER TO A7/X/M800 FOR 3M GENERAL INSTRUCTIONS. ALL FIRE BARRIER DUCT WRAP TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
2. DUCTS EQUAL OR GREATER THAN 24" WIDE REQUIRE PINNING ON THE BOTTOM SIDE OF HORIZONTAL DUCTS AND ON A MINIMUM OF ONE OF THE WIDER SIDES OF A VERTICAL DUCT.
3. REFER TO DETAIL 1/M5.02 AND 5/M5.02 FOR REQUIRED LAYER OVERLAP SPACING.



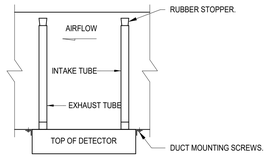
J4 — FIRE WRAP CONNECTIONS
N.T.S.



SAMPLING TUBE ORIENTATION



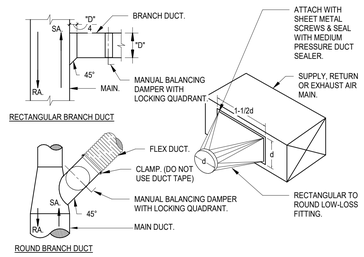
AIR SAMPLING VERIFICATION



DETECTOR MOUNTING

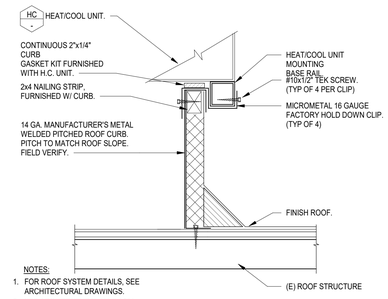
NOTES:
1. MOUNT DUCT DETECTOR IN SA DUCT UPSTREAM OF BRANCH TAKE-OFFS.
2. UPON DETECTION OF SMOKE UNITS SHALL BE SHUT-DOWN AUTOMATICALLY.
3. PROVIDE INTERLOCKS TO SHUT DOWN UNIT AS REQUIRED.
4. PROVIDE INTERLOCKS TO ACTIVATE ALARM SYSTEM PER CMC 608.

E7 — DUCT DETECTOR
N.T.S.



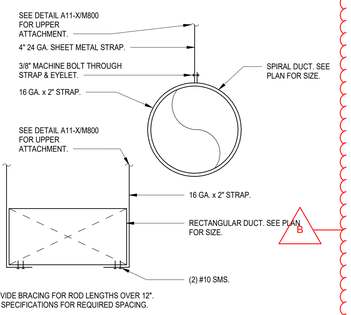
NOTE: ALL BRANCH TAKE-OFFS SHALL HAVE A LOW LOSS FITTING WHETHER SHOWN ON THE FLOOR PLAN OR NOT.

J11 — DUCT BRANCH CONNECTIONS
N.T.S.



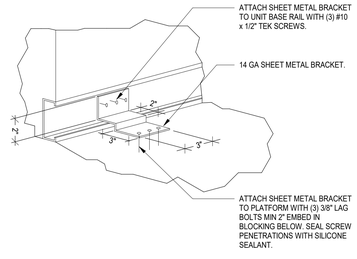
NOTES:
1. FOR ROOF SYSTEM DETAILS, SEE ARCHITECTURAL DRAWINGS.
2. SEE ARCHITECTURAL M1-X/A501 FOR CURB ATTACHMENT.

J14 — PACKAGE UNIT ON METAL CURB
N.T.S.



NOTES:
1. PROVIDE BRACING FOR ROD LENGTHS OVER 12".
2. SEE SPECIFICATIONS FOR REQUIRED SPACING.

E11 — DUCT SUPPORTS
N.T.S.



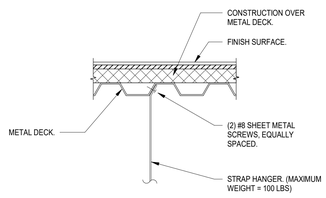
E14 — MECH. UNIT BASE RAIL TO PLATFORM
N.T.S.

2-LAYER GREASE DUCT METHOD (ASTM E 2336)
THIS GENERAL INSTRUCTION FOR APPLYING 3M FIRE BARRIER DUCT WRAP 615+ DETAILS TWO-LAYER WRAP INSTALLATION OF 3M FIRE BARRIER DUCT WRAP 615+ BLANKET APPLIED DIRECTLY TO GREASE DUCT. THE FIRST LAYER OF DUCT WRAP IS WRAPPED AROUND TEH PERIMETER OF THE DUCT AND IS CUT TO A LENGTH TO EITHER BUTT TO ITSELF OR OVERLAP ITSELF NOT LESS THAN 3". THE INTERFACE BETWEEN ADJACENT BLANKETS FORMS THE LONGITUDINAL JOINT. INNER LAYER LONGITUDINAL JOINTS CAN BE TIGHTLY BUTTED JOINTS OR THEY SHOULD OVERLAP ONTO ADJACENT BLANKETS WITH A MIN. 3" OVERLAP. ALUMINUM FOIL OR FSK TAPE IS USED TO SEAL ALL CUT EDGES OF THE BLANKET AND ANY TEARS IN THE FOIL SCRIM. THIS FIRST LAYER IS TEMPORARILY HEAD IN PLACE USING FILAMENT TAPE. THE FIRST LAYER DOES NOT REQUIRE STEEL BANDING.

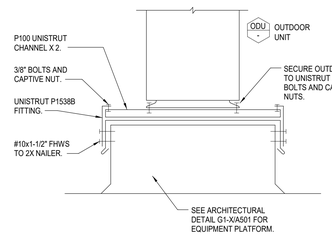
THE SECOND LAYER OF 3M FIRE BARRIER DUCT WRAP 615+ IS WRAPPED AROUND THE PERIMETER OF THE PREVIOUSLY INSTALLED FIRST LAYER OF WRAP. THE OTHER LAYER PERIMETER (LATERAL) JOINTS SHOULD BE OFFSET A MINIMUM OF 3" FROM THE INNER LAYER PERIMETER JOINTS. THE PERIMETER JOINTS SHOULD BE A MINIMUM 3" OVERLAP. OFFSET THE OUTER LAYER LONGITUDINAL JOINTS SHOUDL BE A MINIMUM 3" OVERLAP. THE ONE EXCEPTION TO THIS RULE IS THE "BUTT JOINT COLLAR METHOD" WHERE IT IS PERMISSIBLE FOR THE LONGITUDINAL JOINTS TO BE TIGHTLY BUTTED AND THEN COVERED WITH A MINIMUM 6" WIDE COLLAR CENTERED OVER IT. THE SECOND LAYER OF WRAP CAN BE TEMPORARILY HELD IN PLACE USING FILAMENT TAPE. THE SECOND LAYER OF WRAP REQUIRES PERMANENT FASTENING WITH STAINLESS STEEL BANDING, OR WITH ROWS OF WELD PINS (IMPALING OR CUP-HEAD STYLE).

3M FIRE BARRIER DUCT WRAP 615+

A7 — 3M FIRE BARRIER 615+ INSTRUCTIONS
N.T.S.



A11 — STRAP HANGER ON METAL DECK
N.T.S.



A14 — CONDENSING UNIT ON ROOF PLATFORM
N.T.S.

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1407

REGISTERED PROFESSIONAL ENGINEER JONATHAN C. SCHEMMEL M35955 Exp. 06-30-20 MECHANICAL STATE OF CALIFORNIA

Agency Approval

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Project

MECHANICAL DETAILS

Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT ROBERT L. PERTTUNEN No. C15968 Exp. 11-30-24 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

Designed By: JS
Drawn By: MI
Checked By: HB
Reviewed By: HB

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Scale: 1" = 1'-0"
Project Number: 2310
Date: 2024/09/19

X/M800
AD2-MX04

9/25/2024 8:17:02 AM
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PLUMBING SCHEDULE

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	S OR W	V	CW	HW	DESCRIPTION
S-1	2-COMPARTMENT SINK	2"	1-1/2"	1/2"	1/2"	ADVANCE TABCO 94-62-36-18RL. PROVIDE CHICAGO FAUCET 4445-DJ13.
S-2	HANDWASH SINK	2"	1-1/2"	1/2"	1/2"	ADVANCE TABCO MODEL #7-PS-46 WALL HUNG, 20"x24" SINK, 18 GAUGE TYPE 304 STAINLESS STEEL WITH BACKSPLASH AND WALL BRACKET, STAINLESS STEEL GRID DRAIN, BACKSPLASH MOUNTED GOOSENECK FAUCET WITH WRIST BLADE HANDLES, DECK MOUNT SOAP DISPENSER, AND FRONT LOADING PAPER TOWEL DISPENSER. PROVIDE WILKINS #ZW3870XLT-4P POINT-OF-USE THERMOSTATIC MIXING VALVE BELOW SINK. PROVIDE A STEEL SUPPORT PLATE FOR MOUNTING FIXTURE PER DETAIL ON DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE MOUNTING HEIGHT.
FS-1	FLOOR SINK	2"	1-1/2"	TP	_"	J.R SMITH MODEL #3150-Y, COATED CAST IRON, ACID RESISTANT PAINTED INTERIOR, 12-1/2" SQUARE TOP, 8" DEEP, DOUBLE DRAINAGE FLANGE, NO HUB OUTLET & DOME STRAINER.
TD-1	TRENCH DRAIN	3"	1-1/2"	TP	_"	KUSEL TD4V18ZC-034 TRENCH DRAIN. MADE OF 12 GA TYPE 304 SS, STANDARD INDUSTRIAL FINISH BODY WITH LEVELING TABS AND V SHAPED BOTTOM. 18" WIDE (GRATE WIDTH: 15-1/2" TROUGH WIDTH: 12-1/4"). 1/4" PITCH TO 3" SCH 40 CENTER OUTLET. 3-5/8" STARTING DEPTH. OPEN BAR GRATE WITH 8 GA SIDE BANDING BARS AND 10 GA CONTINUOUSLY WELDED BEARING BARS ON 1" OC CENTERS.
TP-1	TRAP PRIMER	_"	_"	3/4"	_"	PRECISION PLUMBING PRODUCTS MODEL PST-10, 120V ELECTRIC TRAP PRIMER, METAL CABINET 12"x12"x4" WITH COVER PLATE. ATMOSPHERIC VACUUM BREAKER, MANUAL OVER RIDE SWITCH/ TEST BUTTON, AND PRE-SET 24 HOUR ADJUSTABLE TIMER. WITH #DU-U DISTRIBUTION FOR UP TO (10) FLOOR DRAINS. CONFIRM WITH ELECTRICAL CONTRACTOR.
GI-1	GREASE INTERCEPTOR	3"	_"	_"	_"	ZURN Z1470-HD ACID RESISTANT COATED INTERIOR AND EXTERIOR FABRICATED STEEL GREASE INTERCEPTOR w/ HEAVY DUTY COVER, PDI, RATED AT 10GPM AND 30LBS. GREASE CAPACITY, WITH INTERNAL AIR RELIEF BY-PASS, BRONZE CLEANOUT PLUG, REMOVABLE PRESSURE EQUALIZING/FLOW DIFFUSING INLET BAFFLE, FIXED BOTTOM OUTLET BAFFLE, AND VISIBLE DOUBLE WALL TRAP SEAL, GASKETED NON-SKID SECURED COVER COMPLETE WITH CENTER TIE DOWN ASSEMBLY, WITH Z1108 FLOW CONTROL FITTING. REGULARLY FURNISHED WITH A HIGH INLET AND OUTLET CONNECTION.

B

PLUMBING LEGEND

SYMBOL	ITEM	ABBR.
	ABOVE	ABV
	ABOVE CEILING	ABV CLG
	ABOVE FINISHED FLOOR	AFF
	ALTERNATE	ALT
&	AND	
	ARCHITECT / ARCHITECTURAL	ARCH
@	AT	
	BELOW FLOOR	BEL FLR
	BELOW GRADE	BEL GR
	CALIFORNIA MECHANICAL CODE	CMC
	CALIFORNIA PLUMBING CODE	CPC
	CEILING	CLG
℄	CENTER LINE	
⁀	CONTINUATION	CONT
	CUBIC FEET PER HOUR	CFH
∅	DIAMETER	DIA
	DOWN	DN
	DRAWING	DWG
	ELBOW	ELL
	ELECTRICAL	ELEC
	EXISTING	(E)
	FEET	FT
	FLOOR	FLR
	FLOW LINE	FL
	GALLON	GAL
	GALLONS PER HOUR	GPH
	GALLONS PER MINUTE	GPM
	GAUGE	GA
	INSIDE DIAMETER	ID
	INVERT ELEVATION	I.E.
	MAXIMUM	MAX
	MINIMUM	MIN
	NEW	(N)
	NOT IN CONTRACT	NIC
	NOT TO SCALE	NTS
#	NUMBER	NO.
	OUTSIDE DIAMETER	OD
	POUNDS	LBS
	POUNDS PER SQUARE INCH	PSI
	POUNDS PER SQUARE INCH ABSOLUTE	PSIA
	POUNDS PER SQUARE INCH GAUGE	PSIG
	POLYVINYL CHLORIDE	PVC
	ROOM	RM
	SPECIFICATION	SPEC
	SQUARE FEET	SQ FT
	STAINLESS STEEL	SS
	TEMPERATURE	TEMP
	THROUGH	THRU
	TYPICAL	(TYP)
	WATER COLUMN	WC
	WITH	W/
A	COMPRESSED AIR	A
AV	ACID VENT	AV
AW	ACID WASTE	AW
	ACID VENT RISER	AVR
	ACID VENT THRU ROOF	AVTR
CD	CONDENSATE DRAIN	CD
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	DOMESTIC HOT WATER RETURN	HWR
G	LOW PRESSURE NATURAL GAS	G
HPG	HIGH PRESSURE GAS	HPG
ICW	INDUSTRIAL COLD WATER	ICW
LPG	LIQUIFIED PETROLEUM GAS	LPG
F	FIRE PROTECTION LINE	
RWL	RAIN WATER LEADER	RWL
OD	OVERFLOW DRAIN	OD
SD	STORM DRAIN	SD
	SOIL or WASTE	S or W
MA	MEDICAL AIR	MA
O_2	OXYGEN	O_2
VAC	VACUUM	VAC
	VENT	V
	VENT RISER	VR
	VENT THRU ROOF	VTR
	CLEANOUT TO GRADE	COTG
	DEMOLITION	DEMO
	EXISTING PIPING	
	FLOOR CLEANOUT	FCO
	HOSE BIBB	
	PIPING TURN UP	
	PIPING TURN DOWN	
	PIPING CAP	
	POINT OF CONNECTION TO EXISTING	POC
	ANGLE VALVE	
	BALANCE VALVE	
	BALL VALVE	
	CHECK VALVE	

SYMBOL	ITEM	ABBR.
	CONCENTRIC REDUCER	
	TWO-WAY CONTROL VALVE	
	PLUG VALVE	
	PRESSURE REDUCING VALVE	
	SHUT-OFF VALVE IN BOX	SOV
	SHUT-OFF VALVE	SOV
	THERMOSTATIC MIXING VALVE	
	TEMPERATURE / PRESSURE RELIEF VALVE	PRV
	UNION	
	WALL CLEANOUT	WCO
	"Y" TYPE STRAINER	
P	PRESSURE GAUGE	
T	TEMPERATURE GAUGE	
1	KEYNOTE	
WC-1	NEW FIXTURE TAG EXAMPLE: WATER CLOSET - TYPE 1 (REFER TO PLUMBING SCHEDULE)	
2 / P800	DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P800	
3 / P400	SECTION REFERENCE EXAMPLE: SECTION 3, SHEET P400	

GENERAL NOTES

1. COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
2. THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS.
3. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTEN TION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
4. ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE OWNER REPRESENTATIVE.
5. MINIMUM SLOPE FOR SEWER IS 1/4" PER FT, UNLESS OTHERWISE NOTED.
6. ALL ROOF PENETRATIONS SHALL BE COMPATIBLE WITH ROOF SYSTEM WITH AS FEW PENETRATIONS AS POSSIBLE.
7. MINIMUM DOMESTIC WATER PIPE SIZE TO BE 3/4" UNLESS OTHERWISE NOTED. USE A REDUCING ELL AT FIXTURE, IF NECESSARY.
8. ALL PLUMBING FIXTURES, VALVES, FAUCETS, FIXTURE STOPS, ETC. WHICH PROVIDE WATER FOR HUMAN CONSUMPTION MUST MEET THE "LEAD FREE" REQUIREMENT FOR THE STATE OF CALIFORNIA.
9. MAXIMUM ALLOWABLE DISTANCE FOR HOT WATER LATERALS TO FIXTURES OFF OF THE CIRCULATING MAIN SHALL BE 10'-0" FOR HAND WASH SINKS AND LAVS, AND 15'-0" FOR OTHER SINKS.

PLUMBING SHEET INDEX

A/P100 OVERALL PLUMBING DEMOLITION PLAN
A/P110 OVERALL PROPOSED PLUMBING PLAN
A/P300 ENLARGED PLUMBING KITCHEN DEMOLITION PLAN
A/P310 ENLARGED PROPOSED KITCHEN PLUMBING PLAN
X/P001 PLUMBING SCHEDULES, LEGENDS, AND NOTES
X/P800 PLUMBING DETAILS

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1407

Agency Approval

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Project

PLUMBING SCHEDULES, LEGENDS, AND NOTES

Drawing

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Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

Designed By: JS
Drawn By: MI
Checked By: HB
Reviewed By: HB

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Scale: 12" = 1'-0"
Project Number: 2310
Date: 2024/09/19

X/P001
AD2-PX01

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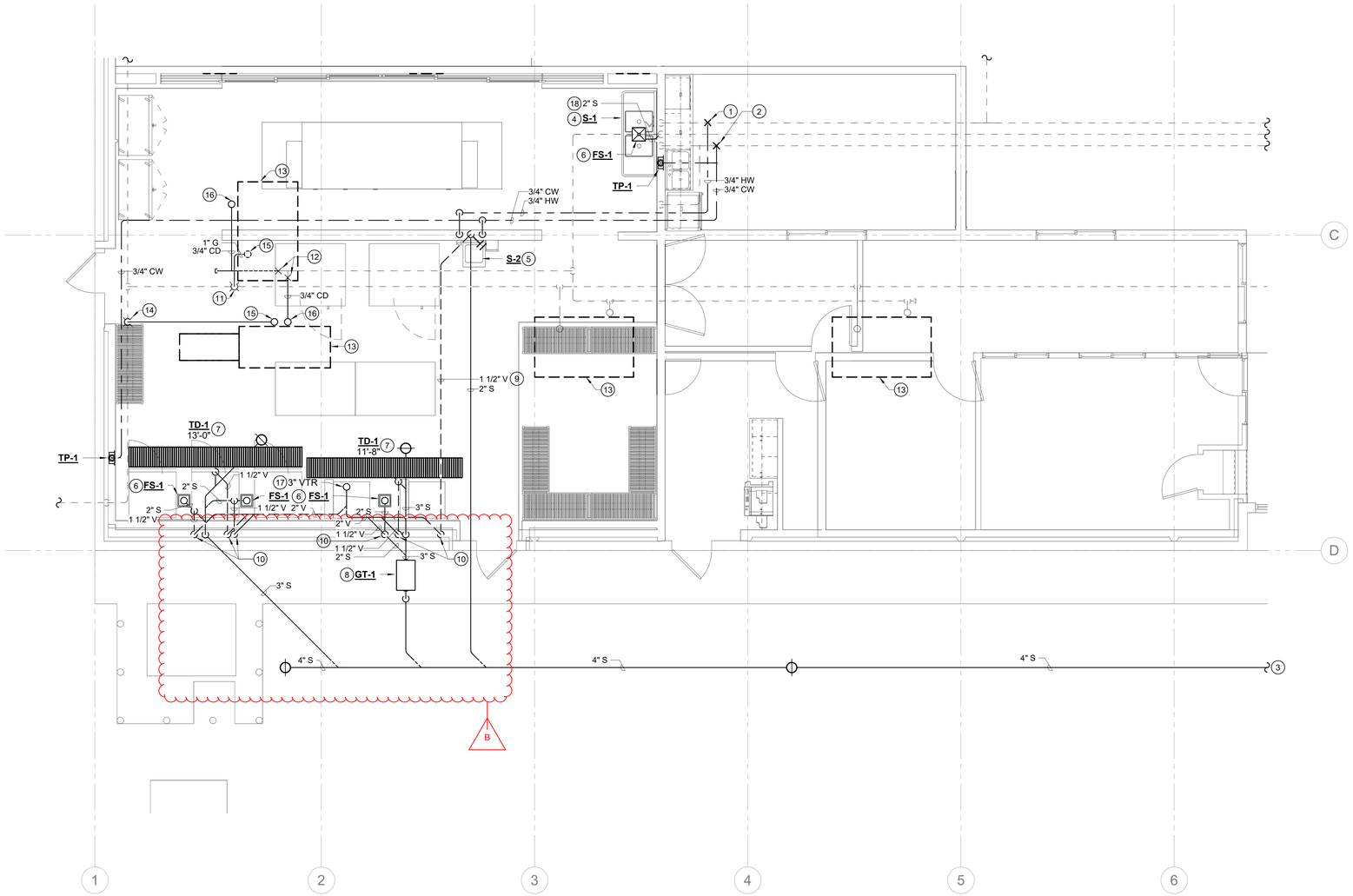

KEYNOTES (#)

1 POC OF (N) 3/4" HW TO (E) 3/4" HW.
2 POC OF (N) 3/4" CW TO (E) 3/4" CW.
3 (N) 4" S TO (E) SEWER MAIN. SEE SHEET A/P110 FOR CONTINUATION.
4 1-1/2" V, 1/2" CW, 1/2" HW TO (N) TWO-COMPARTMENT SINK. DRAIN TO FLOOR SINK w/ 2" S. PROVIDE 1" AIR GAP.
5 2" S, 1-1/2" V, 1/2" CW, 1/2" HW TO (N) HANDWASH SINK.
6 2" S, 1-1/2" V, 1/2" TRAP PRIMER TO (N) FLOOR SINK. SEE DETAIL N14-X/M800 FOR INSTALLATION.
7 3" S, 1-1/2" V, 1/2" TRAP PRIMER TO (N) TRENCH DRAIN.
8 3" S TO GREASE INTERCEPTOR. SEE DETAIL J14-X/P800 FOR INSTALLATION.
9 (N) VENT ROUTED THRU GROUND FLOOR ATTIC.
10 (N) VENT RISER TO SECOND FLOOR ABOVE.
11 POC OF (N) 1" G TO (E) 2" G.
12 POC OF (N) 3/4" CD TO (E) 3/4" CD.
13 MECHANICAL EQUIPMENT ON ROOF. SEE MECHANICAL.
14 POC OF (N) 1" G TO (E) 2-1/2" G.
15 (N) GAS CONNECTION AT UNIT PER E14/X/P800.
16 (N) CONDENSATE CONNECTION AT UNIT PER N7/X/P800.
17 3" VTR INSTALLED PER DETAIL J11/X/P800.
18 DEMO (E) WALL FOR INSTALLATION OF (N) 2" S TO SERVE (N) FLOOR SINK. PATCH BACK WALL TO MATCH FINISH CONDITIONS.

GENERAL NOTES

A. SEE DETAIL A14/X/P800 FOR TYPICAL PIPE SUPPORTS.

B. SEE DETAIL E11/X/P800 FOR TYPICAL CLEANOUT TO GRADE.

C. SEE DETAIL A11/X/P800 FOR TYPICAL WALL CLEANOUT.

D. SEE DETAIL N11/X/P800 FOR PIPE PENETRATIONS THRU ROOF.

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
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REGISTERED PROFESSIONAL ENGINEER
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Agency Approval

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Project

ENLARGED PROPOSED KITCHEN PLUMBING PLAN

Drawing

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No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

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Designed By: JS
Drawn By: MI
Checked By: HB
Reviewed By: HB

Scale: As indicated
Project Number: 2310
Date: 2024/09/19

A/P310
AD2-PX02

J1
1/4" = 1'-0"

ENLARGED PROPOSED PLUMBING PLAN - KITCHEN

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MEP COMPONENT ANCHORAGE NOTE

<u>MEP COMPONENT ANCHORAGE NOTE:</u>

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS IN THE PLAN SET.
DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY STRUCTURAL.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY FOR THE PROJECT THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

<u>PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:</u>

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHAT BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAi OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E):

MP [ ] MD [ ] PP [ ] E [x] OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS

MP [ ] MD [ ] PP [ ] E [ ] OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL (OPM#)

GENERAL NOTES

1. ALL WORK AND MATERIAL SHALL CONFORM TO LATEST CODES AND ORDINANCES. IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR SHALL FURNISH LABOR, MATERIAL, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION SHALL BE INCLUDED. NOTHING IN THESE PLANS OR SPECIFICATIONS MAY BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO ANY CONSTRUCTION CODES.
2. ALL EQUIPMENT SHALL HAVE TESTING LABORATORY LABEL ATTACHED (U.L. C.S.A. ETC.) AS PER C.E.C. 110. PROOF OF TESTING LABELS REQUIRED WITH ALL SUBMITTALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THESE REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PURCHASING, IF ANY OF THE SPECIFIED MATERIAL FAILED THESE REQUIREMENTS. WHERE A FIELD CERTIFIED PRODUCT MAY BE REQUIRED FOR FIELD ASSEMBLED COMPONENT, PROVIDE CERTIFIED REPORT BY AN APPROVED TESTING AGENCY ACCEPTABLE TO THE AUTHORITIES HAVING JURISDICTION. INCLUDE ALL TESTING FEES IN BID.
3. THE ENGINEERING SERVICE ARE LIMITED TO PREPARATION OF PLANS AND SPECIFICATIONS. THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES ONLY AND NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY SCOPE OF WORK WITH GENERAL CONTRACTOR/OWNER SINCE THE ENGINEER IS NOT SUPERVISING THE JOB. THE ENGINEER WILL PROVIDE INTERPRETATION OF THE CONSTRUCTION DOCUMENTS, BUT SUPERVISION IS UNDER THE RESPONSIBILITY OF THE OWNER OR HIS APPOINTEE.
4. WORKING CLEARANCE SHALL BE MAINTAINED AS PER C.E.C FOR ALL PANEL(S), SERVICE EQUIPMENT, DISCONNECT SWITCH, ETC. LOCAL UTILITY COMPANY WORKING CLEARANCE REQUIREMENT SHALL ALSO BE OBSERVED. POWER EQUIPMENT MANUFACTURER'S PRODUCT MAY VARY IN DIMENSION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORKING CLEARANCE REQUIREMENT WHEN LAYING OUT THE ELECTRICAL EQUIPMENT.
5. ARC FLASH WARNING LABELS SHALL BE PLACED ON ALL ELECTRICAL DISTRIBUTION BOARDS, MAIN SWITCHBOARDS, TRANSFORMERS, PANELS, PANELBOARDS, DISCONNECTS ETC. PER CEC 110.16. LABELS SHALL BE PER ANSI Z535.4 GUIDELINES. REFER TO THE ARC FLASH REQUIREMENTS PER THE TYPICAL DETAILS.
6. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF TERMINAL BOXES AND CONDUIT ENTRANCES OF ALL EQUIPMENT AGAINST SHOP DRAWINGS BEFORE STUBBING UP CONDUITS OR PENETRATING EXTERIOR WALL(S) OF BUILDING(S).
7. IN CASE OF INTERFERENCE BETWEEN ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND OTHER EQUIPMENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE PROCEEDING.
8. ALL OUTDOOR DEVICES SHALL BE WEATHERPROOF.
9. ONLY MAJOR PULL BOXES ARE SHOWN. CONTRACTOR SHALL PROVIDE ADDITIONAL PULL BOXES WHERE THEY ARE REQUIRED TO MAKE A WORKABLE INSTALLATION. ALL PULL BOXES ABOVE GROUND SHALL BE PAD LOCKABLE. ALL PULL BOXES UNDERGROUND SHALL HAVE HOLD DOWN BOLTS AND BE TRAFFIC RATED.
10. MARK ALL PANELS WITH LAMANOID TAGS RIVETED TO THE EQUIPMENT. PROVIDE TYPE WRITTEN PANEL SCHEDULE AT ALL PANELS.
11. ALL FLOOR/GROUND MOUNTED EQUIPMENT SHALL SIT ON A CONCRETE PAD 3" HIGHER THAN SURROUNDING SURFACE FOR INTERIOR EQUIPMENT AND 6" FOR EXTERIOR EQUIPMENT.
12. CONTRACTOR SHALL FURNISH ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND SUPERVISION NECESSARY TO COMPLETE INSTALLATION, CHECKOUT AND INITIAL OPERATION.
13. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GENERAL ARRANGEMENT OF EQUIPMENT SHOWN AND SHALL SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT PRIOR TO PURCHASE.
14. CAUTION SHOULD BE USED WHEN EXCAVATING OR TRENCHING TO LOCATE EXISTING UNDERGROUND CONDUITS. COORDINATE WITH AGENCIES SUCH AS UNDERGROUND SERVICE ALERT PRIOR TO EXCAVATION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING VISITED THE SITE AND SATISFIED HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL CHECK ALL OF THE CONDITIONS WHICH MAY AFFECT HIS WORK. THE SITE VISIT SHALL BE MADE PRIOR TO SUBMITTING THE BID. BIDDERS SHALL PREARRANGE A SITE VISIT WITH THE OWNER/ARCHITECT.
16. THE CONTRACTOR SHALL OBTAIN A FULL SET OF PLANS WHEN BIDDING THE JOB.
17. ALL PHASE CONDUCTORS SHALL HAVE THEIR OWN NEUTRALS. NO SHARING OF NEUTRALS ALLOWED.
18. ISOLATED GROUNDING CONDUCTORS SHALL BE SIZED TO MATCH THE EQUIPMENT GROUNDING CONDUCTOR SIZE AND INSTALLED AND CONNECTED ONLY TO THE RECEPTACLES REQUIRED TO BE CONNECTED TO THE ISOLATED GROUNDING SYSTEM AND GROUNDED AT THE MAIN GROUNDING BUS WITHIN THE THE PANEL OF CIRCUIT ORIGIN. THE ISOLATED GROUNDING CONDUCTOR SHALL NOT BE CONNECTED TO ANY OTHER GROUNDING SYSTEM ALONG IT'S PATH.
19. A CERTIFIED ELECTRICIAN SHALL BE PRESENT ON THE PROJECT WHENEVER ELECTRICAL WORK IS IN PROGRESS. AN ELECTRICAL CONTRACTOR IS NOT EXEMPT FROM THIS REQUIREMENT AND SHALL ALSO BE CERTIFIED IF HE IS WORKING AS THE RESPONSIBLE PROJECT ELECTRICIAN . VIOLATION OF THIS REQUIREMENT BY EITHER ELECTRICIANS OR WORKING CONTRACTORS SHALL BE REPORTED TO THE STATE LICENSE CONTRACTOR BOARD AS REQUIRED UNDER THE EXISTING LABOR CODE SECTION 108.2. NO VOLUNTEERS ARE ALLOWED TO PERFORM WORK ON THIS PROJECT AND ALL CITY INSURANCE REQUIREMENTS MUST BE MET PRIOR TO PERFORMING ANY WORK.
20. ALL CONDUIT SHALL BE CONCEALED WITHIN ATTIC SPACE AND WALLS.
21. ALL FASTENERS USED SHALL BE STAINLESS STEEL GRADE 316.
22. ALL EXTERIOR RECEPTACLES SHALL BE GFCI TYPE WITH A LOCKING, WEATHERPROOF IN-USE COVER.
23. ALL DISCONNECTS SHALL BE READILY ACCESSIBLE AND IN SIGHT OF THE EQUIPMENT, PER THE CALIFORNIA ELECTRICAL CODE. IF THE DISCONNECTING MEANS CANNOT BE LOCATED WITHIN SIGHT OF THE EQUIPMENT SERVED, IT SHALL HAVE THE CAPABILITY OF BEING LOCKED IN THE OPEN POSITION.
24. ALL CONDUCTORS INSTALLED IN UNDERGROUND OR WET LOCATIONS SHALL BE LISTED FOR WET LOCATIONS AND MARKED WITH "W" PER CEC.
25. SPLICES AND TERMINALS SHALL BE COMPRESSION TYPE OF SEAMLESS PURE COPPER, TIN PLATED, LONG BARREL (TERMINALS WITH TWO-HOLE PAD AND INSPECTION WINDOW WITH NEMA DRILLING), AS MANUFACTURED BY BURNDY TYPE YS, YAZ-2N OR EQUAL. CLEAN ALL SURFACES AND INSTALL WITH OXIDE INHIBITING COMPOUND, BURNDY PENETROX-E OR EQUAL. INSTALL COMPRESSION CONNECTORS WITH 360° CIRCUMFERENTIAL COMPRESSION DYE, BURNDY HYPRESS OR EQUAL. THE INDENTER OR OTHER TYPE TOOLS WILL NOT BE ACCEPTABLE.
26. INSTALL 'MECHANICALLY FASTENED PHENOLIC NAMEPLATE WITH WHITE LETTERING ON BLACK BACKGROUND ON ALL EQUIPMENT, INCLUDING PULL BOXES, WITH DESCRIPTION INDICATED ON DRAWINGS. NAMEPLATES SHALL READ EXACTLY AS DESCRIBED ON THE DRAWINGS. IN GENERAL NAMEPLATE LETTERING SIZE SHALL BE 3/16-INCH HIGH FOR ALL NAMEPLATES SERVING FEEDER AND BRANCH CIRCUIT BREAKERS. ON MAIN SERVICE PANELS AND ALL OTHER NAMEPLATES LETTERING SHALL BE 1/4-INCH HIGH.
   26.1 ALL SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, VFD'S, MOTORS, JUNCTION BOXES, PULL BOXES, DISCONNECT SWITCHES, ETC., SHALL BE MARKED TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THE POWER ORIGINATES PER CEC 408.4, FIELD IDENTIFICATION REQUIRED, (B) SOURCE OF SUPPLY.
27. COORDINATE EQUIPMENT LOCATIONS, CONTROL AND POWER WIRING REQUIREMENTS AND CONNECT POINTS WITH ALL APPLICABLE DISCIPLINES.
28. PROVIDE AND INSTALL FUSES PER UNIT NAMEPLATE DATA ON THE EQUIPMENT PROVIDED.
29. REINSTALL EXISTING ELECTRICAL INSTALLATIONS DISTURBED. CERTAIN EXISTING ELECTRICAL INSTALLATIONS MAY BE LOCATED IN WALL, CEILINGS OR FLOORS THAT ARE TO BE REMOVED AND ARE ESSENTIAL FOR THE OPERATION OF OTHER REMAINING INSTALLATIONS. WHERE THIS CONDITIONS OCCURS, PROVIDE A NEW EXTENSION OF ORIGINAL CIRCUITS, RACEWAYS, EQUIPMENT AND OUTLETS TO RETAIN SERVICE CONTINUITY. INSTALLATIONS SHALL BE CONCEALED IN FINISHED AREAS.
30. ONLY RIGID OR IMC CONDUIT SHALL BE USED WHEN TRANSITIONING FROM UNDERGROUND PVC CONDUIT TO ABOVE GROUND, PVC NOT ALLOWED.
31. ALL NEW METAL STRUCTURES AND THE ELECTRICAL SYSTEMS SHALL BE GROUNDED AND BONDED. REFER TO ELECTRICAL SPECIFICATIONS AND TYPICAL DETAILS.
32. ALL TRANSFORMER DISCONNECTS SHALL HAVE LOCKOUT CAPABILITY TO LOCK THE DISCONNECT IN THE OPEN AS WELL AS IN THE CLOSED POSITION.
33. ALL BUSES, CONDUCTORS, AND WINDINGS SHALL BE COPPER.
34. ALL INTERRUPT AND SHORT CIRCUIT RATINGS SHALL BE FULLY RATED.
35. ALL TRANSFORMER WINDING SHALL BE COPPER AND THEY SHALL BE K-13 RATED.
36. ALL OUTDOOR ENCLOSURES SHALL BE WEATHERPROOF RATED AND HAVE LOCKING HASP. INCLUDING, BUT NOT LIMITED TO SWITCHBOARDS, DISCONNECTS, ENCLOSURES, ETC. THE DISTRICT WILL PROVIDE THEIR OWN KEYED LOCKS. OUTDOOR PANELS SHALL HAVE KEYED LOCKING MECHANISM, KEYED PER DISTRICT'S STANDARD.
37. ALL LIGHTING CONTROL EQUIPMENT INDICATED ON THESE PLANS SHALL BE MANUFACTURED BY WATTSTOPPER.
38. ALL NEW 208/120V PANELS SHALL HAVE INTEGRAL SURGE PROTECTION WITH 102K JOULE CAPABILITY AND SHALL HAVE ALL MODES OF PROTECTION.
39. NEW RECEPTACLES IN OFFICES SHALL INCLUDE USB CHARGERS.
40. ALL NEW FACEPLATES SHALL BE FLUSH WITH THE WALL. PROVIDE EXTENSION RINGS WHERE NECESSARY.
41. ALL NEW RECEPTACLES SHALL BE TAMPERPROOF.
42. PATCH AND REPAIRED ALL REMOVED CONCRETE TO MATCH ADJACENT SURFACES.

STANDARD SYMBOL LEGEND

Symbol	Description
⟨#⟩	FIXTURE DESIGNATOR - '#' INDICATES FIXTURE TYPE.
	LIGHT FIXTURE - APPROXIMATELY TO SCALE
	FIXTURE WITH 90 MINUTE EMERGENCY BATTERY BACK-UP UNIT - SEE TYPICAL WIRING DETAIL
3 a	LIGHT FIXTURE - WALL OR CEILING MOUNTED. '3' INDICATES CIRCUIT, 'a' INDICATES SWITCH CONTROL.
	EXIT LIGHTS- CEILING OR WALL MOUNTED, ARROW(S) INDICATES DIRECTION.
	EXISTING POLE LIGHTING
S1	WATTSTOPPER LMRC-101 ON/OFF, 1 SWITCH LEG LIGHTING CONTROLLER
S2	WATTSTOPPER LMRC-102 ON/OFF, 2 SWITCH LEG LIGHTING CONTROLLER
D1	WATTSTOPPER LMRC-211 DIMMING, 1 SWITCH LEG LIGHTING CONTROLLER
D2	WATTSTOPPER LMRC-212 DIMMING, 2 SWITCH LEG LIGHTING CONTROLLER
D3	WATTSTOPPER LMRC-213 DIMMING, 3 SWITCH LEG LIGHTING CONTROLLER
	WATTSTOPPER LMDC-100 DUAL TECHNOLOGY MOTION SENSOR
	WATTSTOPPER LMDX-100 DUAL TECHNOLOGY OCCUPANCY SENSOR
LV a	WATTSTOPPER LMSW-101 SWITCH, 'a' INDICATES SWITCH LEG CONTROL. 2 LETTERS NEXT TO EACHOTHER WITHOUT A COMMA INDICATES 1 SWITCH LEG
D a	WATTSTOPPER LMDM-101 DIMMER, 'a' INDICATES SWITCH LEG CONTROL. 2 LETTERS NEXT TO EACHOTHER WITHOUT A COMMA INDICATES 1 SWITCH LEG
M a	WATTSTOPPER DW-311 DUAL TECHNOLOGY 0-10V DIMMING WALL SWITCH OCCUPANCY SENSOR, 'a' INDICATES SWITCH LEG CONTROL.
PS	WATTSTOPPER LMLS-400 PHOTOSENSOR
R2	WATTSTOPPER LMPL-201 RECEPTACLE CONTROLLER
'PNL'-#a D#	PANEL IDENTIFICATION CIRCUIT IDENTIFICATION SWITCH-LEG IDENTIFICATION LIGHTING AND RECEPTACLE ROOM CONTROLLERS SHALL BE LOCATED ABOVE THE T-BAR CEILING FOR THE ROOMS THEY ARE CONTROLLING. IF THE ROOM WITH THE CONTROLLED DEVICES HAS A HARD CEILING THEN LOCATE THE ROOM CONTROLLERS AT THE NEAREST ADJACENT ROOM WITH A T-BAR CEILING. IF NO T-BAR CEILINGS EXISTS LOCATE THE ROOM CONTROLLERS IN THE ELECTRICAL ROOM. LABEL ALL ROOM LIGHTING AND RECEPTACLE CONTROLLERS WITH THE ROOM NAME, ROOM NUMBER, AND CIRCUIT(S) THEY CONTROL.
	SKYLIT OR PRIMARY SIDE DAYLIT ZONE
	SECONDARY SIDE DAYLIT ZONE
$a	SPST TOGGLE WALL SWITCH - 20A, 120/277V, `a' INDICATES CONTROL
$2	DPST TOGGLE WALL SWITCH - 20A, 120/277V
$3	3-WAY TOGGLE WALL SWITCH - 20A, 120/277V
$OC	OCCUPANCY SENSOR COMBO WALL SWITCH - 20A, 120/277V RATED
J	CEILING OR WALL MOUNTED JUNCTION BOX
	PULLBOX(S) - SIZE AND NUMBER AS INDICATED
	RECEPTACLE, DUPLEX - 20A, 120V & GROUND
	RECEPTACLE, DUPLEX CEILING MOUNTED
	RECEPTACLE, DUPLEX - WITH ONE-HALF SWITCHED/CONTROLLED
	RECEPTACLE, DUPLEX- WITH GFCI PROTECTION
WP	RECEPTACLE, DUPLEX - WITH GFCI PROTECTION IN WEATHERPROOF HOUSING
U	20A, 120V RECEPTACLE, DUPLEX- WITH TWO USB PORTS
	RECEPTACLE, DOUBLE DUPLEX - (2) 20A, 120V & GROUND
	RECEPTACLE, DOUBLE DUPLEX CEILING MOUNTED
	RECEPTACLE, DOUBLE DUPLEX WITH GFCI PROTECTION
	RECEPTACLE, DOUBLE DUPLEX - WITH ONE-HALF SWITCHED/CONTROLLED
	RECEPTACLE, DOUBLE DUPLEX - WITH ONE-HALF SWITCHED/CONTROLLED, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED.
	RECEPTACLE, SPECIAL - REFER TO FLOOR PLAN FOR RECEPTACLE SIZE.
	TELEPHONE OUTLET: PROVIDE & INSTALL 2-GANG BOX WITH 1" CONDUIT. STUB-UP INTO T-BAR CEILING. FOR HARD CEILINGS, RUN THE CONDUIT TO THE CABLE TERMINATION LOCATION INDICATED PER THE RISER DIAGRAM. PROVIDE A SINGLE 1" CONDUIT FOR UP TO 4 CABLES.
#	DATA OUTLET: PROVIDE & INSTALL 2-GANG BOX, FACEPLATE, AND QUANTITY OF CAT-6A DATA PORTS INDICATED WITH 1" CONDUIT TO THE CABLE TERMINATION LOCATION INDICATED PER THE RISER DIAGRAM OR IDF LOCATION INDICATED. PROVIDE A SINGLE 1" CONDUIT FOR UP TO 4 CABLES. LABEL ALL DATA PORTS PER THE OWNER'S REQUIREMENTS.
	RECEPTACLE, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED.
	RECEPTACLE WITH ONE-HALF SWITCHED/CONTROLLED, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED.
	TELEPHONE OUTLET, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED.
	DATA OUTLET, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED.
	INTERCOM OUTLET, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED.
	FLUSH, FLOOR MOUNTED DUPLEX RECEPTACLE, DATA JACK, AND TELEPHONE JACK.
	DATA OUTLET, CEILING MOUNTED
	CEILING OR WALL MOUNTED WIRELESS ACCESS POINT PROVISIONS. PROVIDE AND INSTALL TWO DATA CABLE FROM EACH ACCESS POINT TO IDF. FOR HARD CEILINGS TERMINATE THE CABLES INTO A BOX WITH COVER PLATE. FOR T-BAR CEILINGS TERMINATE THE CABLES INTO A CUBE CAT-6 PORT AND CURL UP THE CABLE WITH 10-FEET OF SLACK. LEAVE ABOVE THE T-BAR CEILING. PROVIDE A LABEL BENEATH THE T-BAR CEILING TO INDICATE DATA PORTS ABOVE.
	SURGE SUPPRESSION DEVICE
	DOME CAMERA-CEILING MOUNTED. OWNER FURNISHED OWNER INSTALL SURVEILLANCE CAMERA. CONTRACTOR TO PROVIDE AND INSTALL 4-INCH OCTAGONAL JUNCTION BOX IN CEILING SPACE AT CAMERA LOCATION INDICATED ON PLANS. CONTRACTOR TO PROVIDE AND INSTALL TWO DATA CABLE FROM EACH CAMERA LOCATION BACK TO THE IDF.
	3/4" THICK x 96" TALL FIRE RETARDANT PLYWOOD BACKBOARD, PROVIDE QUANTITY OF PLYWOOD SHEETS TO ENCOMPASS ENTIRE LENGTH INDICATED ON PLANS.
	TERMINAL CABINET - SURFACE OR FLUSH MOUNTED WITH FLAME RETARDANT PLYWOOD BACKBOARD
	PANELBOARD - SURFACE OR FLUSH MOUNTED
	DISTRIBUTION OR SWITCHBOARD
	NEUTRAL LINK
	TRANSFORMER
T	TRANSFORMER
#A/#B/#C	FUSED DISCONNECT - MOTOR RATED. FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. DISCONNECTS TO BE FURNISHED WITH DUAL ELEMENT FUSES SIZED ACCORDING TO NAME PLATE DATA ON EQUIPMENT INSTALLED. SIZE AS : #A = AMPERE RATING OF DISCONNECT, #B = POLES, #C = FUSE SIZE REQUIRED. ALSO REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR DISCONNECT REQUIREMENTS. IF NO AMPERE RATING IS INDICATED ON PLAN SIZE DISCONNECT PER NAMEPLATE RATING AND CEC.
#A/#B	UNFUSED DISCONNECT - MOTOR RATED, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR: #1 = AMPERE RATING OF DISCONNECT, #2 = POLES REQUIRED. ALSO REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR DISCONNECT REQUIREMENTS. IF NO AMPERE RATING IS INDICATED ON PLAN SIZE DISCONNECT PER NAMEPLATE RATING AND CEC.
	MAGNETIC MOTOR STARTER FURNISHED, INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
M	MOTOR - FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AND CONNECTED BY ELECTRICAL CONTRACTOR.
M	METER
	INTRUSION ALARM DOOR CONTACT
#	INTRUSION ALARM KEYPAD
	WALL OR CEILING MOUNTED INTRUSION ALARM MOTION SENSOR.
G	WALL OR CEILING MOUNTED GLASS BREAK DETECTOR.
	GROUND
	CIRCUIT BREAKER
K	KEY INTERLOCKED CIRCUIT BREAKER. DASHED LINE INDICATES WHICH BREAKERS ARE KEY INTERLOCKED WITH EACH OTHER.
	EXISTING ABOVE GROUND CONDUIT EXISTING UNDERGROUND CONDUIT
	WIREMOLD 5400 SERIES DUAL CHANNEL IVORY RACEWAY. PROVIDE ALL ACCESSORIES, FITTINGS, DIVIDERS, ETC FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
	WIREMOLD RACEWAY VERTICAL RUNS. PROVIDE ALL ELBOWS, FITTINGS, AND CONNECTORS AS NECESSARY FOR A COMPLETE RACEWAY SYSTEM.
	NEW ELECTRICAL EQUIPMENT
	EXISTING ELECTRICAL EQUIPMENT TO REMAIN
	EXISTING ELECTRICAL EQUIPMENT TO BE DEMOLISHED
	GROUND WIRE WITH GREEN INSULATION SIZE PER N.E.C., U.O.N.
	CONDUIT CONCEALED IN WALL OR CEILINGS. PROVIDE NUMBER OF WIRES NECESSARY FOR BRANCH CIRCUIT, SWITCH LEGS, ETC. PROVIDE SEPARATE NEUTRALS FOR EACH PHASE WIRE. SIZE SHALL BE DETERMINED BY OCPD CONNECTED TO THE PHASE CONDUCTORS AND VOLTAGE DROP CONSIDERATIONS. ALL CONDUITS SHALL HAVE GROUND CONDUCTOR(S). SIZE CONDUIT PER NEC.
	CONDUIT CONCEALED UNDERGROUND OR BELOW FLOOR, MINIMUM SIZE IS 3/4". PROVIDE NUMBER OF WIRES NECESSARY FOR BRANCH CIRCUIT, SWITCH LEGS, ETC. PROVIDE SEPARATE NEUTRALS FOR EACH PHASE WIRE. SIZE SHALL BE DETERMINED BY OCPD CONNECTED TO THE PHASE CONDUCTORS AND VOLTAGE DROP CONSIDERATIONS. ALL CONDUITS SHALL HAVE GROUND CONDUCTOR(S). SIZE CONDUIT PER NEC.
	CONDUIT- UP
	CONDUIT-DOWN
#	SHEET NOTE NUMBER - #, SEE NOTE DESCRIPTION ON SAME SHEET.
#	GENERAL NOTE NUMBER - #, SEE NOTE DESCRIPTION ON SAME SHEET.
# / #	REFERENCE TO PLAN/DETAIL/DIAGRAM
XX X	DESIGNATES SIZE AND QUANTITY OF FEEDERS SEE FEEDER SCHEDULE
TV	PROVIDE AND INSTALL TWO MALE F-TYPE CONNECTORS AND TV FACEPLATE. PROVIDE AND INSTALL RG-6 COAXIAL CABLE FROM EACH CONNECTOR TO THE CABLE TV HEADEND & TERMINATE WITH A MALE F-TYPE CONNECTOR.
	TELEVISION OUTLET IN FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED, SEE TELEVISION SYMBOL.
(5) (4) (2)	NUMBER IN PARENTHESIS INDICATES QUANTITY OF DEVICES. TYPICAL FOR ALL TYPES OF DEVICES.
S	SPEAKER - WALL OR CEILING MOUNTED, REFER TO RISER DIAGRAM AND/OR NOTES ON PLANS AND SPECIFICATIONS.
C	CLOCK, REFER TO RISER DIAGRAM AND/OR NOTES ON PLANS AND SPECIFICATIONS.
CS	COMBINATION CLOCK & SPEAKER, REFER TO RISER DIAGRAM AND/OR NOTES ON PLANS AND SPECIFICATIONS.
	1 HR - RATED WALL (REFER TO ARCHITECTS DRAWINGS)
	2 HR - RATED WALL (REFER TO ARCHITECTS DRAWINGS)
MS	ENERGY-REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR: PROVIDE A DEDICATED 120V CIRCUIT. FROM THE NEAREST 120VOLT SOURCE OR HAVE BOARD MANUFACTURER PROVIDE A SMALL STEP DOWN TRANSFORMER IN BOARD FOR 120V POWER.

ELECTRICAL SHEET INDEX

<u>SITE DEVELOPMENT</u>

SD/E101	SITE DEVELOPMENT - DEMOLITION ELECTRICAL SITE PLAN
SD/E102	SITE DEVELOPMENT - ELECTRICAL SITE PLAN
SD/E103	SITE DEVELOPMENT - PARTIAL ELECTRICAL SITE PLAN

<u>TYPICAL INFORMATION</u>

X/E101	ELECTRICAL SYSTEMS - SYMBOLS LEGEND, ABBREVIATIONS, AND NOTES
X/E102	ELECTRICAL SYSTEMS - SYMBOLS LEGEND, ABBREVIATIONS, AND NOTES CONTINUED
X/E103	ELECTRICAL SYSTEMS - LIGHTING FIXTURE SCHEDULE
X/E104	ELECTRICAL SYSTEMS - ELECTRICAL SINGLE LINE DIAGRAM
X/E105	ELECTRICAL SYSTEMS - ELECTRICAL MECHANICAL SCHEDULES AND RISER DIAGRAMS
X/E106	ELECTRICAL SYSTEMS - PANEL SCHEDULES
X/E107	ELECTRICAL SYSTEMS - TYPICAL ELECTRICAL DETAILS
X/E108	ELECTRICAL SYSTEMS - TYPICAL ELECTRICAL DETAILS
X/E109	NOT USED
X/E110	NOT USED
X/E111	TITLE 24 COMPLIANCE FORMS - POWER
X/E112	TITLE 24 COMPLIANCE FORMS - INDOOR LIGHTING
X/E113	ELECTRICAL SYSTEMS - DEMOLITION POWER AND SIGNAL FLOOR PLAN - FIRST FLOOR
X/E114	ELECTRICAL SYSTEMS - POWER AND SIGNAL FLOOR PLAN - FIRST FLOOR
X/E115	ELECTRICAL SYSTEMS - POWER AND SIGNAL FLOOR PLAN - SECOND FLOOR
X/E116	ELECTRICAL SYSTEMS - DEMOLITION LIGHTING FLOOR PLAN - FIRST FLOOR
X/E117	ELECTRICAL SYSTEMS - LIGHTING FLOOR PLAN - FIRST FLOOR
X/E118	ELECTRICAL SYSTEMS - EMERGENCY PHOTOMETRIC LIGHTING PLAN - FIRST FLOOR
X/E119	ELECTRICAL SYSTEMS - DEMOLITION ELECTRICAL ROOF PLAN
X/E120	ELECTRICAL SYSTEMS - ELECTRICAL ROOF PLAN

ELECTRICAL EQUIPMENT NOTES

1. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL EQUIPMENT, DEVICES AND WIRING. SEE SECTION 260000 OF THE SPECIFICATIONS.
2. FOR THE EXACT LOCATION OF ELECTRICAL EQUIPMENT AND DEVICES SEE THE ARCHITECTURAL ELEVATIONS, DETAILS AND DIMENSIONS SHOWN ON THE DRAWINGS.

DEMOLITION AND CLEANUP NOTES

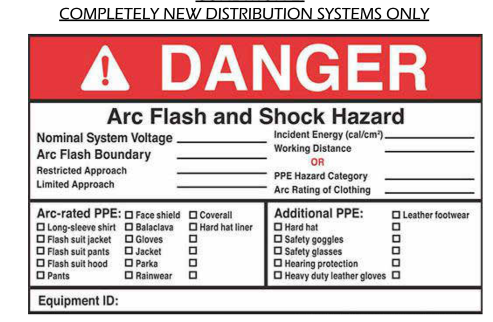
1. REMOVE ALL MATERIAL CAUSED BY THE DEMOLITION WORK FROM THE SITE AND LEAVE THE PREMISES CLEAN AND FREE OF DEBRIS.
2. PATCH HOLES WHERE FASTENERS, DEVICES OR EQUIPMENT HAS BEEN REMOVED. PAINT PATCH TO MATCH SURROUNDING AREA.
3. ALL DEMOLITION SHALL COMPLY WITH CH. 33 CBC AND CHAPTER 33 CFC.

ARC FLASH WARNING LABEL REQUIREMENTS

<u>CONDITION 1:</u>
<u>EXISTING EQUIPMENT WITHIN SCOPE OF THE PROJECT AND ALL NEW EQUIPMENT</u>

1. ARC FLASH HAZARD HAZARD WARNING LABELS SHALL BE FIELD MARKED/PLACED ON ALL NEW AND EXISTING ELECTRICAL DISTRIBUTION BOARDS, SWITCHBOARDS, TRANSFORMERS, PANELS, PANELBOARDS, DISCONNECTS, & MOTOR CONTROL CENTERS THAT ARE WITHIN THE SCOPE OF THIS PROJECT PER CEC 110.16. LABELS SHALL BE APPLIED TO EXISTING EQUIPMENT WHERE NEW CONNECTIONS ARE MADE. THE LABELS SHALL MEET THE REQUIREMENTS OF 110.21(B) AND ANSI Z535.4-2011 GUIDELINES BY USING EFFECTIVE COLORS, SYMBOLS OR ANY COMBINATION THEREOF.

<u>CONDITION 2:</u>
<u>COMPLETELY NEW DISTRIBUTION SYSTEMS ONLY</u>



1. ARC FLASH HAZARD WARNING LABELS FOR AN ENTIRELY NEW ELECTRICAL SERVICE AND DISTRIBUTION SYSTEMS SHALL BE UTILIZED AND ALL ELECTRICAL COMPONENTS OF THE DISTRIBUTION EQUIPMENT SHALL HAVE AN ARC FLASH WARNING LABEL WITH THE FOLLOWING INFORMATION:
   - 1.1. NOMINAL SYSTEM VOLTAGE
   - 1.2. ARC FLASH BOUNDARY
   - 1.3. MINIMAL ARC RATING OF CLOTHING
   - 1.4. EXACTLY ONE OF THE FOLLOWING:
     - 1.4.1. INCIDENT ENERGY & CORRESPONDING WORKING DISTANCE
     - 1.4.2. THE ARC FLASH PPE CATEGORY
2. THE LABELS SHALL MEET THE REQUIREMENTS OF CEC 110.21(B) AND ANSI Z535.4-2011 GUIDELINES BY USING EFFECTIVE COLORS, SYMBOLS OR ANY COMBINATION THEREOF.
3. THE CONTRACTOR SHALL HAVE THE EQUIPMENT MANUFACTURER PROVIDE THE REQUIRED LABELING OR OBTAIN THE SERVICES OF A THIRD PARTY OR THE ELECTRICAL ENGINEER OF RECORD.

<u>CONDITION 3:</u>
<u>NEW SERVICES</u>

1. ARC FLASH HAZARD WARNING LABELS SHALL BE FIELD MARKED/PLACED ON ALL NEW SERVICE EQUIPMENT WITH THE FOLLOWING INFORMATION.
   - 1.1. NOMINAL SYSTEM VOLTAGE
   - 1.2. AVAILABLE FAULT CURRENT AT THE SERVICE OVERCURRENT PROTECTIVE DEVICES
   - 1.3. CLEARING TIME OF THE SERVICE OVERCURRENT PROTECTIVE DEVICES BASED ON THE AVAILABLE FAULT CURRENT AT THE SERVICE EQUIPMENT
   - 1.4. THE DATE THE LABEL WAS APPLIED
2. THE LABELS SHALL MEET THE REQUIREMENTS OF CEC 110.21(B) AND ANSI Z535.4-2011 GUIDELINES BY USING EFFECTIVE COLORS, SYMBOLS OR ANY COMBINATION THEREOF.

UTILITY COMPANY SERVICE NOTES

1. ~~ALL UTILITY SERVICE WORK SHALL BE DONE IN ACCORDANCE WITH THE UTILITY COMPANY~~ RULE-15/16 DRAWINGS.

B

Agency Approval

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REGISTERED PROFESSIONAL ENGINEER · JOHN BORRELLI · No.E16390 · EXP.6/30/25 · ELECTRICAL · CALIFORNIA

SCAN ME

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Child Nutrition Kitchen Remodel
Madera Unified School District
769 S. Pine St, Madera, CA 93637
Project

Electrical Systems-Symbol Legend, Abbreviations, and Notes
Drawing

darden architects
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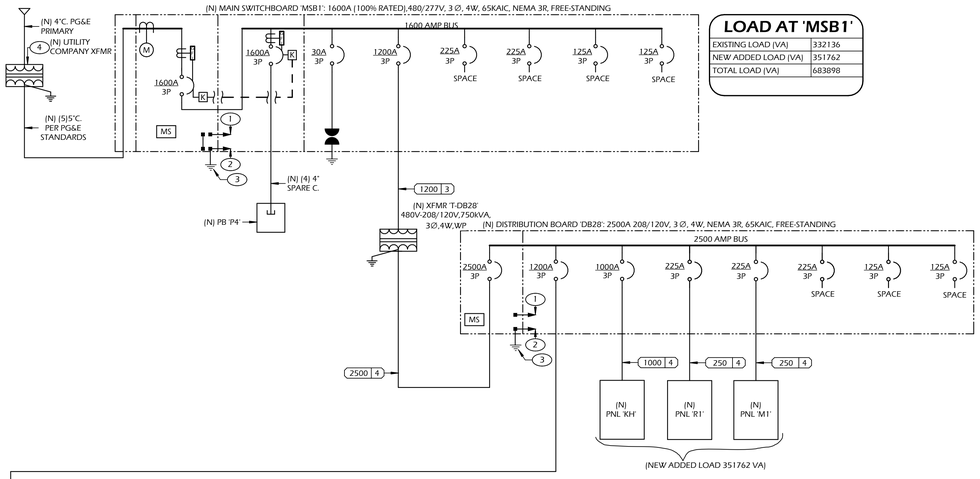
LICENSED ARCHITECT · MICHAEL K. FENNACY · No. C23724 · Ren. 4-30-23 · STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

	Designed By: Designer	Copyright Darden Architects
Scale:	Drawn By: Author	X/E101
Project Number: 2310	Checked By: Checker	AD2-EX01
Date: Issue Date	Reviewed By: Approver	



LOAD AT 'MSB1'

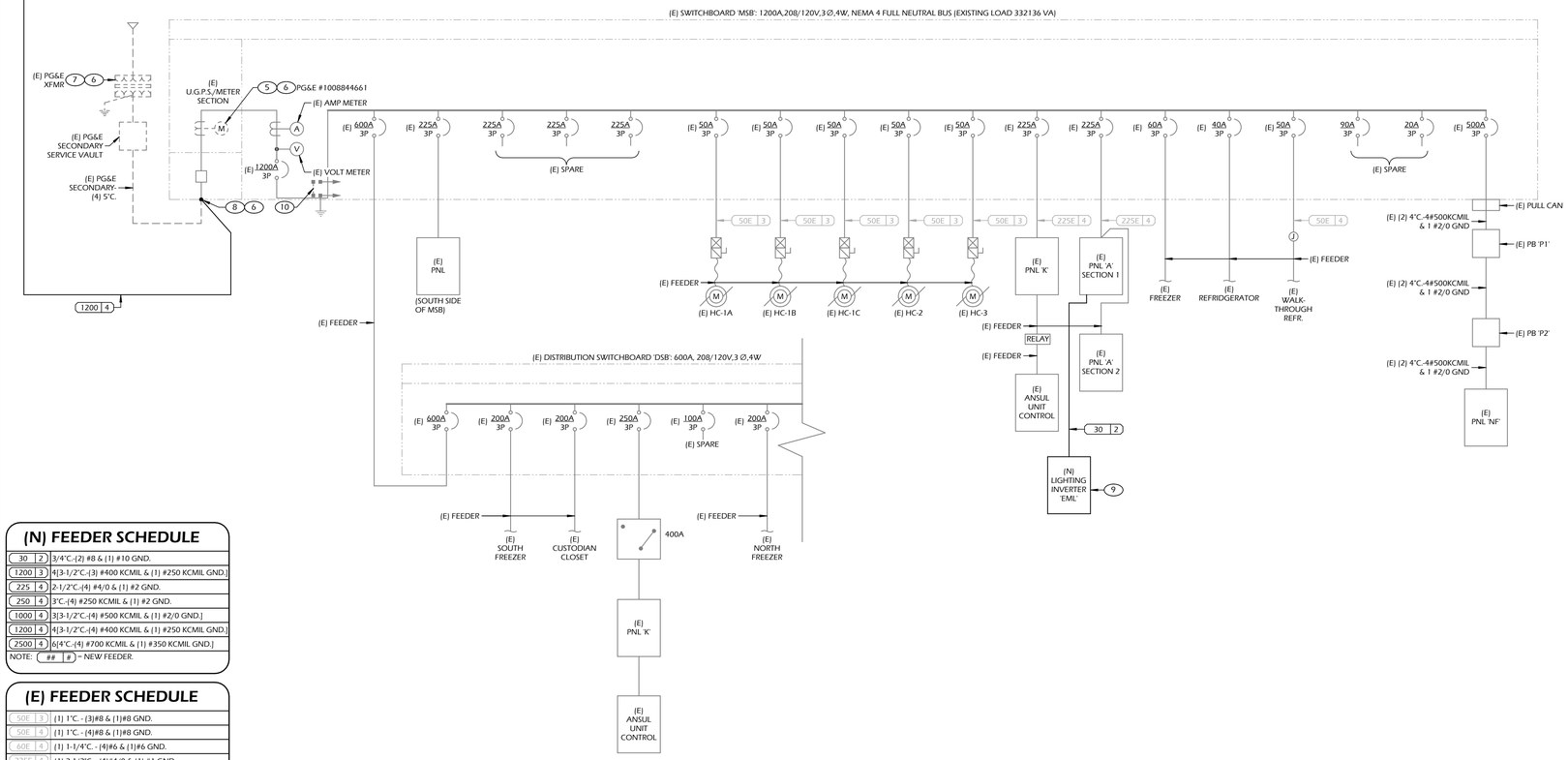
EXISTING LOAD (VA)	332136
NEW ADDED LOAD (VA)	351762
TOTAL LOAD (VA)	683898

OWNER PROVIDED CONTRACTOR INSTALLED ELECTRICAL DISTRIBUTION EQUIPMENT NOTES

a.(N) MAIN SWITCHBOARD 'MSB1'
b.(N) XFMR 'T-DB28'
c.(N) DISTRIBUTION BOARD 'DB28'
d.(N) PNL 'KH'
e.(N) PNL 'R1'
f.(N) PNL 'M1'

CONTRACTOR WILLBE RESPONSIBLE FOR REMOVING FROM STORAGE ONSITE ALL EQUIPMENT AND INSTALLING PER THESE PLANS.

B



(N) FEEDER SCHEDULE

30	2	3/4"C.-(2) #8 & (1) #10 GND.
1200	3	4[3-1/2"C.-(3) #400 KCMIL & (1) #250 KCMIL GND.]
225	4	2-1/2"C.-(4) #4/0 & (1) #2 GND.
250	4	3"C.-(4) #250 KCMIL & (1) #2 GND.
1000	4	3[3-1/2"C.-(4) #500 KCMIL & (1) #2/0 GND.]
1200	4	4[3-1/2"C.-(4) #400 KCMIL & (1) #250 KCMIL GND.]
2500	4	6[4"C.-(4) #700 KCMIL & (1) #350 KCMIL GND.]

NOTE: ## # = NEW FEEDER.

(E) FEEDER SCHEDULE

50E	3	(1) 1"C. - (3)#8 & (1)#8 GND.
50E	4	(1) 1"C. - (4)#8 & (1)#8 GND.
60E	4	(1) 1-1/4"C. - (4)#6 & (1)#6 GND.
225E	4	(1) 2-1/2"C. - (4)#4/0 & (1) #1 GND.

NOTE: ##E # = EXISTING FEEDER.

1

PARTIAL SINGLE LINE DIAGRAM

NOT TO SCALE

SHEET NOTES 0

1. BOARD SHALL HAVE FULL NEUTRAL BUS.
2. BOARD SHALL HAVE LENGTH GROUND BUS.
3. PROVIDE GROUNDING ELECTRODE PER SPECIFICATIONS. PROVIDE SIZE #3/0 COPPER CONDUCTOR FOR THE GROUND CONNECTION FROM THE SERVICE MAIN GROUND BUS TO THE GROUND ROD. GROUND BOND TO COLD WATER PIPE GROUND CONDUCTOR.
4. NEW PG&E TRANSFORMER AND NEW CONCRETE PAD PER PG&E STANDARDS.
5. COORDINATE WITH PG&E FOR THE REMOVAL OF THE EXISTING METER CURRENT COILS. PROVIDE BLANK METER COVER PLATE.
6. WORK TO BE DONE ONCE (N) MAIN SWITCHBOARD 'MSB1', ELECTRICAL DISTRIBUTION BOARD, AND NEW PG&E TRANSFORMER HAS BEEN INSTALLED.
7. COORDINATE WITH PG&E FOR DISCONNECTING AND REMOVING THE EXISTING PG&E TRANSFORMER. REFER TO ELECTRICAL SITE PLAN. COORDINATE WITH CAMPUS/DISTRICT FOR PG&E SHUT OFF DISCONNECTION SO CAMPUS IS AWARE AT LEAST TWO MONTHS IN ADVANCED TO PREPARE FOR THE SWITCHOVER.
8. COORDINATE THE DISCONNECTION OF EXISTING SERVICE WITH THE UTILITY COMPANY. CUT AND INTERCEPT THE EXISTING FEEDERS AND CONDUIT. PROVIDE AND INSTALL NEW FEEDER AND CONDUIT TO CONNECT THE EXISTING MSB TO THE NEW 'MSB1'.
9. PROVIDE AND INSTALL 1kVA, 1 PHASE, 120V-INPUT TO 120V-OUTPUT MYERS #1-EM-1-S-BA2005-BTM-M-IOT-2YW-T-5YP-5YW EMERGENCY LIGHTING INVERTER WITH 90 MINUTES OF RUN TIME (27.5" TALL x 24.5" WIDE x 10.5" DEEP, 281 POUNDS TOTAL SYSTEM WEIGHT) OR APPROVED EQUAL. PROVIDE AND INSTALL A CAT6A DATA CABLE BACK TO THE IDF. PROVIDE MANUFACTURER FLOOR MOUNTING BRACKETS FOR FLOOR MOUNTING.
10. CONTRACTOR TO REMOVE THE EXISTING MAIN BONDING JUMPER. SO, NEUTRAL BUS AND GROUND BUS ARE NOT BONDED.

Agency Approval

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REGISTERED PROFESSIONAL ENGINEER No.E16390 ELECTRICAL CALIFORNIA

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SCAN ME

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Electrical Systems-Electrical Single Line Diagram
Drawing

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LICENSED ARCHITECT MICHAEL K. FERRARO No. C23724 Exp. 4-30-24 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

	Designed By: Designer	Copyright Darden Architects
Scale:	Drawn By: Author	X/E104
Project Number: 2310	Checked By: Checker	AD2-EX02
Date: Issue Date	Reviewed By: Approver	

(N) PANEL 'M1'

VOLTAGE: 208/120V, 3Ø, 4W
BUS: 225A
MAIN BREAKER: 225A/3P

BREAKER AIC: 35,000
MOUNTING: SURFACE
NEMA 1 ENCLOSURE

CIR #	BKR	LOAD (VA) PHASE A	PHASE B	PHASE C	DESCRIPTION	DESCRIPTION	LOAD (VA) PHASE C	PHASE B	PHASE A	BKR	CIR #
1		1801.3			EXHAUST FAN EF-1	SPARE			0		2
3	30A/3P		1801.3					0		15A/3P	4
5				1801.3			0				6
7		144.11			FLY FAN FF-1A	FLY FAN FF-1B			144.11		8
9	15A/3P		144.11					144.1		15A/3P	10
11				144.11			144.11				12
13		1429.1			MAKE-UP AIR UNIT MAU-1	TRAP PRIMER			12	20A/1P	14
15	20A/3P		1429.1			SPARE ↓		0		↓	16
17				1429.1		↓	0			↓	18
19		0			SPACE	CONDENSING UNIT CU-1A			8322.2		20
21	↓		0		↓			8322		90A/3P	22
23	↓			0	↓		8322.2				24
25	↓	0			↓	CONDENSING UNIT CU-1B			8322.2		26
27	↓		0		↓			8322		90A/3P	28
29	↓			0	↓		8322.2				30
31	↓	0			↓	SPACE			0		32
33	↓		0		↓	↓		0		↓	34
35	↓			0	↓	↓	0			↓	36
37	↓	0			↓	↓			0	↓	38
39	↓		0		↓	↓		0		↓	40
41	↓			0	↓	↓	0			↓	42
TOTAL Ø LOADS (VA):					PHASE A = 20163	PHASE B = 20163	PHASE C = 20163				
TOTAL Ø LOADS (A):					PHASE A = 146	PHASE B = 146	PHASE C = 146				
SUB TOTAL LOAD:					60489 VA	146 A					
25% OF LARGEST MOTOR:					6242 VA	15 A					
TOTAL LOAD:					66731 VA	161 A					

B

(E) PANEL 'A' - SECTION 1
NEW CONFIGURATION

VOLTAGE: 208/120V, 3Ø, 4W
BUS: 225A
MAIN BREAKER: 225A/3P

BREAKER AIC: 22,000
MOUNTING: SURFACE
NEMA 1 ENCLOSURE

CIR #	BKR	LOAD (VA) PHASE A	PHASE B	PHASE C	DESCRIPTION	DESCRIPTION	LOAD (VA) PHASE C	PHASE B	PHASE A	BKR	CIR #
1	20A/1P	570			(E) EXIT LIGHTING	(E) LTG - FOOD PREP.			803	20A/1P	2
3	↓		715		LTG RM#110 &111	↓		1752		↓	4
5	↓			774	LTG RM#101 -109, 112	(E) LTG - KITCHEN, SALAD	1881			↓	6
7	↓	876			LTG (E) LTG - OFFICES	(E) LTG - RACK STORAGE			1216	↓	8
9	↓		801		(E) SPARE	EXHAUST FAN		800		↓	10
11	↓			800	↓	FACP	800			↓	12
13	↓	800			(E) REC - MISC	(E) PWR POLE - FOOD PREP.			800	↓	14
15	↓		800		↓	↓		800		↓	16
17	↓			800	↓	↓	800			↓	18
19	↓	800			(E) REC - SALAD PREP	↓			800	↓	20
21	↓		800		↓	(E) REC - RACK STRGE		800		↓	22
23	↓			800	(E) SPARE	↓	800			↓	24
25	↓	800			(E) REC - FOOD PREP	↓			800	↓	26
27	↓		800		↓	↓		800		↓	28
29	↓			800	(E) REC - KTN. RFG.	↓	800			↓	30
31	↓	1000			(E) REC - GRBG. DISP.	LIGHTING INVERTER 'EML'			670.6	15A/1P	32
33	↓		1000		(E) REC - MICRO-W	EXTERIOR EMERGENCY LIGHT		25		20A/1P	34
35	↓			1000	(E) REC - COUNTER	SPARE	0			↓	36
37	↓	800			(E) SPARE	↓			0	↓	38
39	↓		800		↓	↓		0		↓	40
41	↓			800	↓	↓	0			↓	42
TOTAL Ø LOADS (VA):					PHASE A = 10736	PHASE B = 10693	PHASE C = 10855				
TOTAL Ø LOADS (A):					PHASE A = 89	PHASE B = 89	PHASE C = 90				
TOTAL LOAD:					32284 VA	90 A					

NOTE:
1. REFER WITHIN PANEL SCHEDULE FOR NEW LIGHTING INVERTER CIRCUIT BREAKER. CIRCUIT BREAKER PROTECTING THE LIGHTING INVERTER MUST BE A "MOTOR START", DELAYED TRIP TYPE.

(E) PANEL 'A' - SECTION 1
EXISTING CONFIGURATION

VOLTAGE: 120/208V, 3Ø, 4W
BUS: 225A
MAIN BREAKER: 225A/3P

BREAKER AIC: 22,000
MOUNTING: SURFACE
NEMA 1 ENCLOSURE

CIR #	BKR	LOAD (VA) PHASE A	PHASE B	PHASE C	DESCRIPTION	DESCRIPTION	LOAD (VA) PHASE C	PHASE B	PHASE A	BKR	CIR #
1	20A/1P	500			(E) EXIT LIGHTING	(E) LTG - FOOD PREP.			803	20A/1P	2
3	↓		1387		(E) LTG - DINING	↓		1752		↓	4
5	↓			1460	(E) LTG - ENTRY, SNACKS	(E) LTG - KITCHEN, SALAD	1881			↓	6
7	↓	1626			(E) LTG - OFFICES	(E) LTG - RACK STORAGE			1216	↓	8
9	↓		800		(E) SPARE	EXHAUST FAN		800		↓	10
11	↓			800	↓	FACP	800			↓	12
13	↓	800			(E) REC - MISC	(E) PWR POLE - FOOD PREP.			800	↓	14
15	↓		800		↓	↓		800		↓	16
17	↓			800	↓	↓	800			↓	18
19	↓	800			(E) REC - SALAD PREP	↓			800	↓	20
21	↓		800		↓	(E) REC - RACK STRGE		800		↓	22
23	↓			800	(E) SPARE	↓	800			↓	24
25	↓	800			(E) REC - FOOD PREP	↓			800	↓	26
27	↓		800		↓	↓		800		↓	28
29	↓			800	(E) REC - KTN. RFG.	↓	800			↓	30
31	↓	1000			(E) REC - GRBG. DISP.	(E) VENDING MACHINE			1500	↓	32
33	↓		1000		(E) REC - MICRO-W	SPARE		0		↓	34
35	↓			1000	(E) REC - COUNTER	(E) VENDING MACHINE	1500			↓	36
37	↓	800			(E) SPARE	SPARE			0	↓	38
39	↓		800		↓	(E) VENDING MACHINE		1500		↓	40
41	↓			800	↓	SPARE	0			↓	42
TOTAL Ø LOADS (VA):					PHASE A = 12245	PHASE B = 12839	PHASE C = 13041				
TOTAL Ø LOADS (A):					PHASE A = 102	PHASE B = 107	PHASE C = 109				
TOTAL LOAD:					38125 VA	106 A					

ELECTRICAL DISTRIBUTION WEIGHT & DIMENSIONS SCHEDULE

NAME	CB	WEIGHT(Lb)	W	D	H	MOUNTING	MANUFACTURER
MSB 'MSB1'	1600A	4502	140"	61"	91"	FREE-STANDING	ABB OR EQUAL
DB 'DB28'	2500A	2560	75"	55"	91"	FREE-STANDING	ABB OR EQUAL
PANEL 'KH'	1000A	735	45"	14.5"	72"	SURFACE MOUNTED	ABB OR EQUAL
PANEL 'R1'	225A	230	20"	5.75"	64".5	SURFACE MOUNTED	ABB OR EQUAL
PANEL 'M1'	225A	288	20"	5.75"	64".5	SURFACE MOUNTED	ABB OR EQUAL

TRANSFORMER WEIGHT & DIMENSIONS SCHEDULE

NAME	kVA	WEIGHT(Lb)	W	D	H	LOCATION	MANUFACTURER
XFMR 'T-DB28'	750 kVA	5405	64"	50"	80.25"	ONSITE	ABB OR EQUAL

(N) PANEL 'R1'

VOLTAGE: 208/120V, 3Ø, 4W
BUS: 225A
MAIN BREAKER: 225A/3P

BREAKER AIC: 35,000
MOUNTING: SURFACE
NEMA 1 ENCLOSURE

CIR #	BKR	LOAD (VA) PHASE A	PHASE B	PHASE C	DESCRIPTION	DESCRIPTION	LOAD (VA) PHASE C	PHASE B	PHASE A	BKR	CIR #
1	20A/1P	360			RM# 106 REC.	RM# 104 REF. REC.			800	20A/1P	2
3	↓		540		RM# 106 REC.	RM# 104 MW. REC.		1200		↓	4
5	↓			720	RM# 106 REC.	RM# 104 REC.	540			↓	6
7	↓	540			RM# 102 REC.	RM# 104 REC.			1200	↓	8
9	↓		900		RM# 103 REC.	RM# 102 REC. N. SIDE		180		↓	10
11	↓			600	RM# 102 PRINTER REC.	RM# 102 REC. N. SIDE	360			↓	12
13	↓	720			RM# 102 REC. N. SIDE W	RM# 102 REC. N. SIDE			360	↓	14
15	↓		360		RM# 119 N. SIDE REC.	RM# 102 REC. S. SIDE		180		↓	16
17	↓			540	RM# 119 N. SIDE REC.	RM# 102 REC. S. SIDE	360			↓	18
19	↓	180			RM# 119 N. SIDE REC.	RM# 102 REC. S. SIDE			540	↓	20
21	↓		360		RM# 119 N. SIDE REC. W	RM# 102 REC. S. SIDE W		540		↓	22
23	↓			200	ANSUL PANEL	RM# 102 REC. S. SIDE W	540			↓	24
25	↓	400			GREASE KITCHEN HOOD	RM# 119 S. SIDE REC.			180	↓	26
27	↓		180		ROOF HVAC REC.	RM# 119 S. SIDE REC.		540		↓	28
29	↓			1560	GARBAGE DISPOSAL	RM# 119 S. SIDE REC.	180			↓	30
31	↓	400			GREASE KITCHEN HOOD	RM# 119 N. SIDE REC. W			360	↓	32
33	↓		1320		FREEZER	SPARE		0		↓	34
35	15A/1P			648	REFRIGERATOR	RM# 106 REC.	360			↓	36
37	20A/1P	360			TV RECP.	SPACE			0		38
39	↓		0		SPARE ↓	↓		0		↓	40
41	↓			0	↓	↓	0			↓	42
43		0			SPACE	↓			0	↓	44
45	↓		0		↓	↓		0		↓	46
47	↓			0	↓	↓	0			↓	48
49		3770.8			CHILLER AND SHOCK FREEZER	CHILLER AND SHOCK FREEZER			3770.8		50
51	40A/3P		3770.8					3771		40A/3P	52
53				3770.8			3770.8				54
TOTAL Ø LOADS (VA):					PHASE A = 13582	PHASE B = 13842	PHASE C = 14150				
TOTAL Ø LOADS (A):					PHASE A = 113	PHASE B = 115	PHASE C = 118				
SUB TOTAL LOAD:					41574 VA	115 A					

B

(N) PANEL 'KH'

VOLTAGE: 208/120V, 3Ø, 4W
BUS: 1000A
MAIN BREAKER: 1000A/3P

BREAKER AIC: 35,000
MOUNTING: SURFACE
NEMA 3R ENCLOSURE

CIR #	BKR	LOAD (VA) PHASE A	PHASE B	PHASE C	DESCRIPTION	DESCRIPTION	LOAD (VA) PHASE C	PHASE B	PHASE A	BKR	CIR #
1		22633			ICOMBI STEAMER & OVEN	SPACE			0		2
3	200A/3P		22633			↓		0		↓	4
5				22633		↓	0			↓	6
7		22633			ICOMBI STEAMER & OVEN	↓			0	↓	8
9	200A/3P		22633			↓		0		↓	10
11				22633		↓	0			↓	12
13		22633			ICOMBI STEAMER & OVEN	↓			0	↓	14
15	200A/3P		22633			↓		0		↓	16
17				22633		↓	0			↓	18
19		0			SPACE	IVARIO TILTING SKILLET			7666.7		20
21	↓		0		↓			7667		70A/3P	22
23	↓			0	↓		7666.7				24
25	↓	0			↓	IVARIO TILTING SKILLET			7666.7		26
27	↓		0		↓			7667		70A/3P	28
29	↓			0	↓		7666.7				30
31	↓	0			↓	SPACE			0		32
33	↓		0		↓	↓		0		↓	34
35	↓			0	↓	↓	0			↓	36
37	↓	0			↓	↓			0	↓	38
39	↓		0		↓	↓		0		↓	40
41	↓			0	↓	↓	0			↓	42
TOTAL Ø LOADS (VA):					PHASE A = 83233	PHASE B = 83233	PHASE C = 83233				
TOTAL Ø LOADS (A):					PHASE A = 693	PHASE B = 693	PHASE C = 693				
SUB TOTAL LOAD:					249699 VA	693 A					

NOTE:
1. MAIN CIRCUIT BREAKER SHALL HAVE SHUNT TRIP ACCESSORY WITH 24DC VOLT ACTIVATION FOR INTERFACE TO FIRE ALARM RELAY MODULE.

Agency Approval

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Consulting Electrical Engineers
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BAI # 23165

REGISTERED PROFESSIONAL ENGINEER JOHN BORRELLI No.E16390 EXP.6/30/25 ELECTRICAL CALIFORNIA

SCAN ME

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Child Nutrition Kitchen Remodel
Madera Unified School District
769 S. Pine St, Madera, CA 93637
Project

Electrical Systems-Panel Schedules
Drawing

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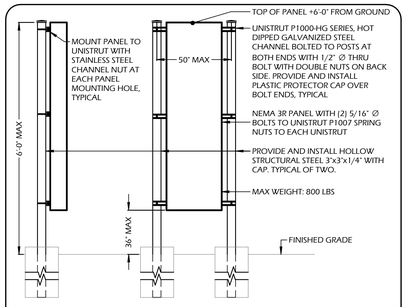
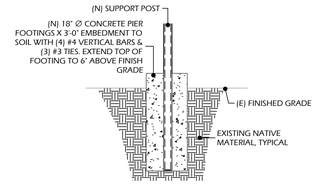
LICENSED ARCHITECT MICHAEL K. FENNACY No. C23724 Ren. 4-30-23 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

	Designed By: Designer	Copyright Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: Author	*X/E106*
Project Number: 2310	Checked By: Checker	AD2-EX03
Date: Issue Date	Reviewed By: Approver	

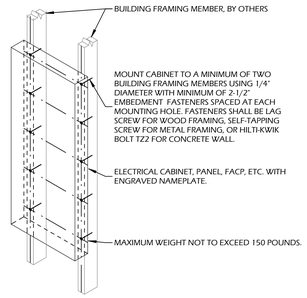




A SECTION VIEW
NO SCALE

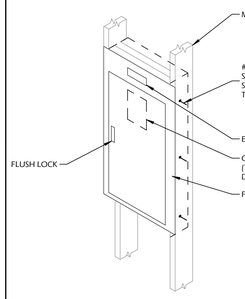
13 TYPICAL POST MOUNTED PANEL MOUNTING DETAIL

NOT TO SCALE



10 TYPICAL TERMINAL CABINET/PANEL ATTACHMENT TO WALL

NOT TO SCALE

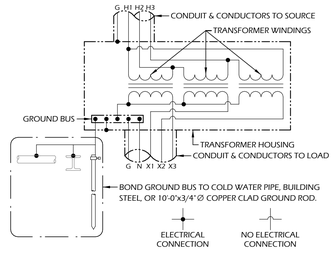


WIDTH	DEPTH	HEIGHT	WEIGHT	ANCHORING			
				QTY.	DIA.	TYPE	LENGTH
NOTE 1	NOTE 1	NOTE 1	NOTE 1	6	14"	SCREW	3"

NOTE:
1. REFER TO THE ELECTRICAL DISTRIBUTION WEIGHT & DIMENSIONS SCHEDULE.

11 TYPICAL FLUSH MOUNTED PANEL DETAIL

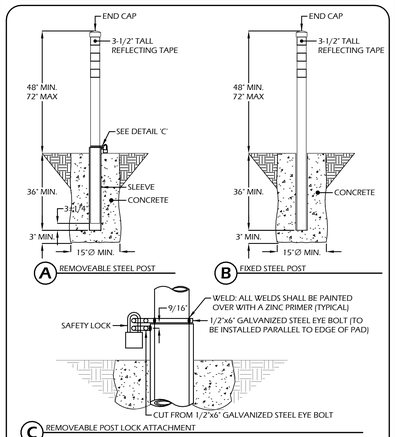
NOT TO SCALE



NOTES:
1. SIZE CONDUITS AND CONDUCTORS PER THE SINGLE LINE DIAGRAM.

7 TRANSFORMER GROUNDING & CONNECTION DETAIL

NOT TO SCALE



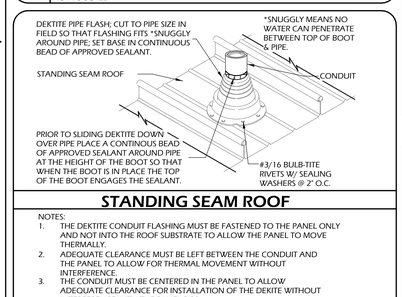
C REMOVEABLE POST LOCK ATTACHMENT

ITEM	MATERIAL
POST	4" GALVANIZED, STEEL PIPE, STANDARD, SCHEDULE NO. 80
SLEEVE	5" GALVANIZED, STEEL PIPE 36" LONG, STANDARD, SCHEDULE NO. 80
END CAP	4" GALVANIZED, MALLEABLE IRON, THREADED (SCREWED)

CONCRETE SHALL BE MIN 3000 LBS. IN 28 DAYS.

8 BARRIER POST DETAIL

NOT TO SCALE

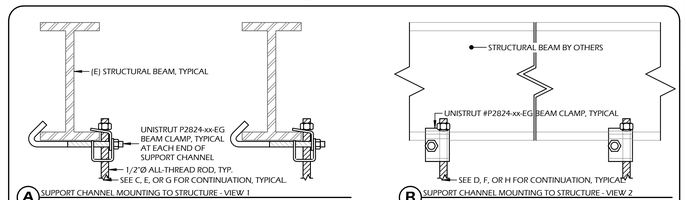


STANDING SEAM ROOF

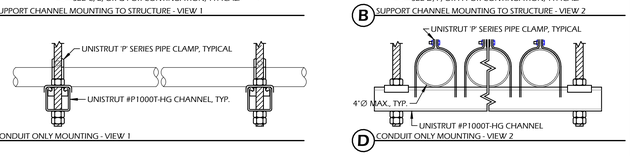
NOTES:
1. THE DEKTITE CONDUIT FLASHING MUST BE FASTENED TO THE PANEL ONLY AND NOT INTO THE ROOF SUBSTRATE TO ALLOW THE PANEL TO MOVE THERMALLY.
2. ADEQUATE CLEARANCE MUST BE LEFT BETWEEN THE CONDUIT AND THE PANEL TO ALLOW FOR THERMAL MOVEMENT WITHOUT INTERFERENCE.
3. THE CONDUIT MUST BE CENTERED IN THE PANEL TO ALLOW ADEQUATE CLEARANCE FOR INSTALLATION OF THE DEKITE WITHOUT INTERFERENCE WITH THE PANEL RIBS.
4. FOR REGIONS WITH SNOW & ICE, A ROW OF SNOW GUARDS MUST BE INSTALLED NO GREATER THAN 3' IN FRONT OF THE CONDUIT PENETRATION FOR PROTECTION.
5. CONDUITS LARGER THAN 6" IN DIAMETER MAY REQUIRE A CURB DEPENDING ON THE PANEL WIDTH & CONDUIT LOCATION. THIS IS TO BE VERIFIED IN FIELD.

9 TYPICAL CONDUIT ROOF PENETRATIONS

NOT TO SCALE GB160-01-05



A SUPPORT CHANNEL MOUNTING TO STRUCTURE - VIEW 1
B SUPPORT CHANNEL MOUNTING TO STRUCTURE - VIEW 2



C CONDUIT ONLY MOUNTING - VIEW 1
D CONDUIT ONLY MOUNTING - VIEW 2

DETAIL NOTES:
1. REFER TO PLAN FOR QUANTITY OF CONDUIT.

12 CONDUIT TRAPEZE SUPPORT DETAIL

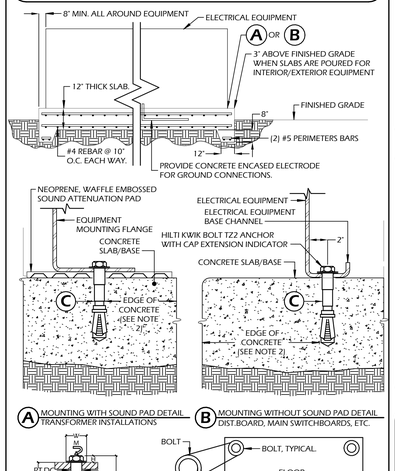
NOT TO SCALE

HILTI KWIK BOLT TZ2 STAINLESS STEEL NOTES

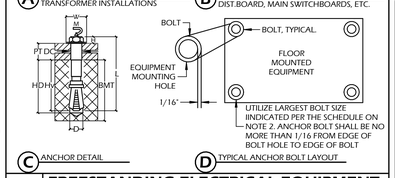
1. EXPANSION ANCHORS SHALL BE STAINLESS STEEL HILTI KWIK BOLT KB-TZ2 AS MANUFACTURED BY HILTI, INC., 5400 SOUTH 122ND EAST AVENUE, TULSA, OKLAHOMA 74146. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND I.C.C. REPORT NO. ESR-4266.
2. TEST VALUES AND INSTALLATION REQUIREMENTS SHALL BE AS FOLLOWS:

BOLT SIZE	EFF. EMBED	EDGE DISTANCE	SPACING	CONC. THKS.	TORQUE INSTALLATION
3/8"	2-1/2"	5"	5"	5"	30 # FT
1/2"	3-1/4"	6"	6"	5-1/2"	40 # FT
5/8"	4"	6"	7"	6"	60 # FT
3/4"	4 - 3/4"	6"	8"	8"	125# FT

3. PLACEMENT GUIDELINES FOR ABOVE VALUES IN ITEM 2 REQUIRE THE FOLLOWING CONDITIONS:
   3.1. TABLE VALUES ARE BASED ON F'C = 2500 PSI MIN.
   3.2. HOLES DRILLED WITH A HAMMER DRILL AND CARBIDE BIT COMPLYING W/ ANSI B212.15-1994.
   3.3. BIT DIAMETER EQUALS THE SIZE OF THE ANCHOR BEING INSTALLED.
   3.4. HOLE DEPTH MUST EXCEED EFF. EMBED PER ICC REPORT.
   3.5. ANY SEISMIC DESIGN CATEGORY PER 2022 C.B.C.
   3.6. A C.I. "CRACKED" CONCRETE CONDITION IS SUFFICIENT.
   3.7. FOR STAINLESS STEEL BOLTS UNLESS SPECIFIED OTHERWISE.
4. WHEN INSTALLING EXPANSION ANCHORS IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE-INCH BETWEEN THE EXISTING REINFORCEMENT AND THE EXPANSION ANCHOR.
5. KWIK BOLT TZ2 EXPANSION ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH HILTI CARBIDE TIPPED DRILL BITS. ANCHORS SHALL BE INSTALLED AND TORQUED PER MANUFACTURERS RECOMMENDATIONS.
6. ANCHOR SIZES, QUANTITIES, AND TORQUES SHALL BE PER TABLES.
7. CONTRACTOR TO ESR-4266 REPORT FOR FURTHER REQUIREMENTS.
8. POST-INSTALLED ANCHORS SHALL BE INSTALLED PER THE TORQUE LISTED WITH SPECIAL INSPECTION.
9. CONTRACTOR TO OBTAIN SPECIAL INSPECTIONS TESTING TO VERIFY BOLTS ARE TORQUED PROPERLY AND A REPORT SHALL BE PROVIDED TO THE ENGINEER OF RECORD AND THE PROJECT INSPECTOR.



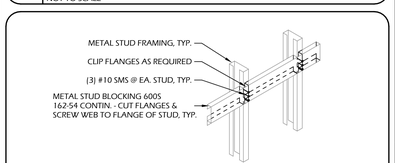
A MOUNTING WITH SOUND PAD DETAIL. TRANSFORMER INSTALLATIONS
B MOUNTING WITHOUT SOUND PAD DETAIL. DIST.BOARD, MAIN SWITCHBOARDS, ETC.



C ANCHOR DETAIL
D TYPICAL ANCHOR BOLT LAYOUT

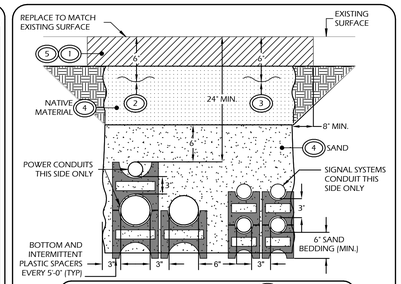
5 FREESTANDING ELECTRICAL EQUIPMENT TYPICAL FOR ALL GROUND MOUNTED EQUIPMENT

NOT TO SCALE



6 TYPICAL METAL BACKING

NOT TO SCALE

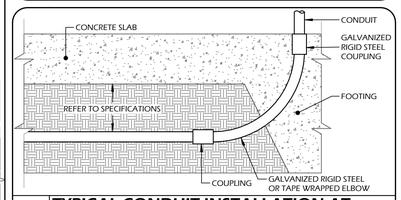


DETAIL NOTES

1. SAWCUT ALL EDGES NEATLY.
2. PROVIDE AND INSTALL DETECTABLE WARNING TAPE MARKED "POWER" ABOVE POWER CONDUITS.
3. PROVIDE AND INSTALL DETECTABLE WARNING TAPE MARKED " COMMUNICATIONS" ABOVE COMMUNICATIONS CONDUIT.
4. THE CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A SOILS LAB TEST FOR THE COMPACTION OF THE BACKFILL. A SOILS PROFILE SHALL BE DONE OF THE SAND SO THE COMPACTION TEST CAN BE PERFORMED. THE CONTRACTOR SHALL PROVIDE ALL COMPACTION OF THE TRENCH REQUIRED TO MEET A 95% COMPACTION REQUIREMENT. AN INSPECTED AND SIGNED COMPACTION TESTING REPORT SHALL BE PROVIDED BY THE SOILS TESTING LAB AND COPY OF THE COMPACTION TEST SHALL BE PROVIDED TO THE ENGINEER OF RECORD/PROJECT COORDINATOR PRIOR INSTALLING THE HARDSCAPE. THE CONTRACTOR SHALL BE REQUIRED TO PAY FOR ALL TESTS UNTIL THE COMPACTION RESULTS MEET OR EXCEED THE COMPACTION REQUIREMENTS.
5. PROVIDE 12-INCH BY 1/2-INCH REBAR STEEL DOWELS INSTALLED AT 12-INCHES ON-CENTER ALONG ENTIRE PATH OF TRENCH. DOWELS SHALL BE INSERTED 6-INCHES WITHINI THE EXISTING ADJACENT SURFACE. PREPARE EXISTING SURFACE BY DRILLING HOLES WITHIN AND PROVIDING EPOXY TO HOLD THE DOWEL IN PLACE.

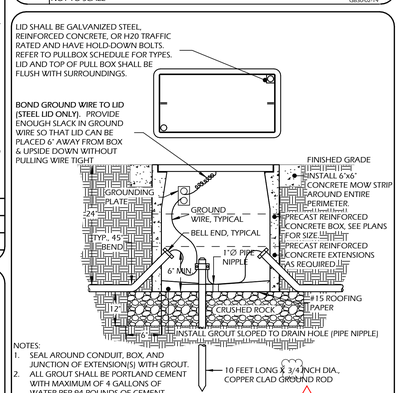
1 TYPICAL TRENCH DETAIL

NOT TO SCALE



2 TYPICAL CONDUIT INSTALLATION AT CONCRETE SLAB ON GRADE

NOT TO SCALE GB30-02-14

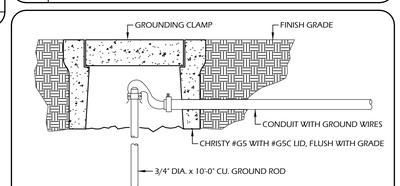


NOTES:
1. SEAL AROUND CONDUIT, BOX, AND JUNCTION OF EXTENSION(S) WITH GROUT.
2. ALL GROUT SHALL BE PORTLAND CEMENT WITH MAXIMUM OF 4 GALLONS OF WATER PER 94 POUNDS OF CEMENT.

3 PULL BOX DETAIL

B

NOT TO SCALE GB30-01-01



4 TYPICAL GROUND ROD DETAIL

NOT TO SCALE GB30-01-06

Agency Approval

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Child Nutrition Kitchen Remodel

Madera Unified School District
769 S. Pine St, Madera, CA 93637
Project

Electrical Systems-Typical Electrical Details
Drawing

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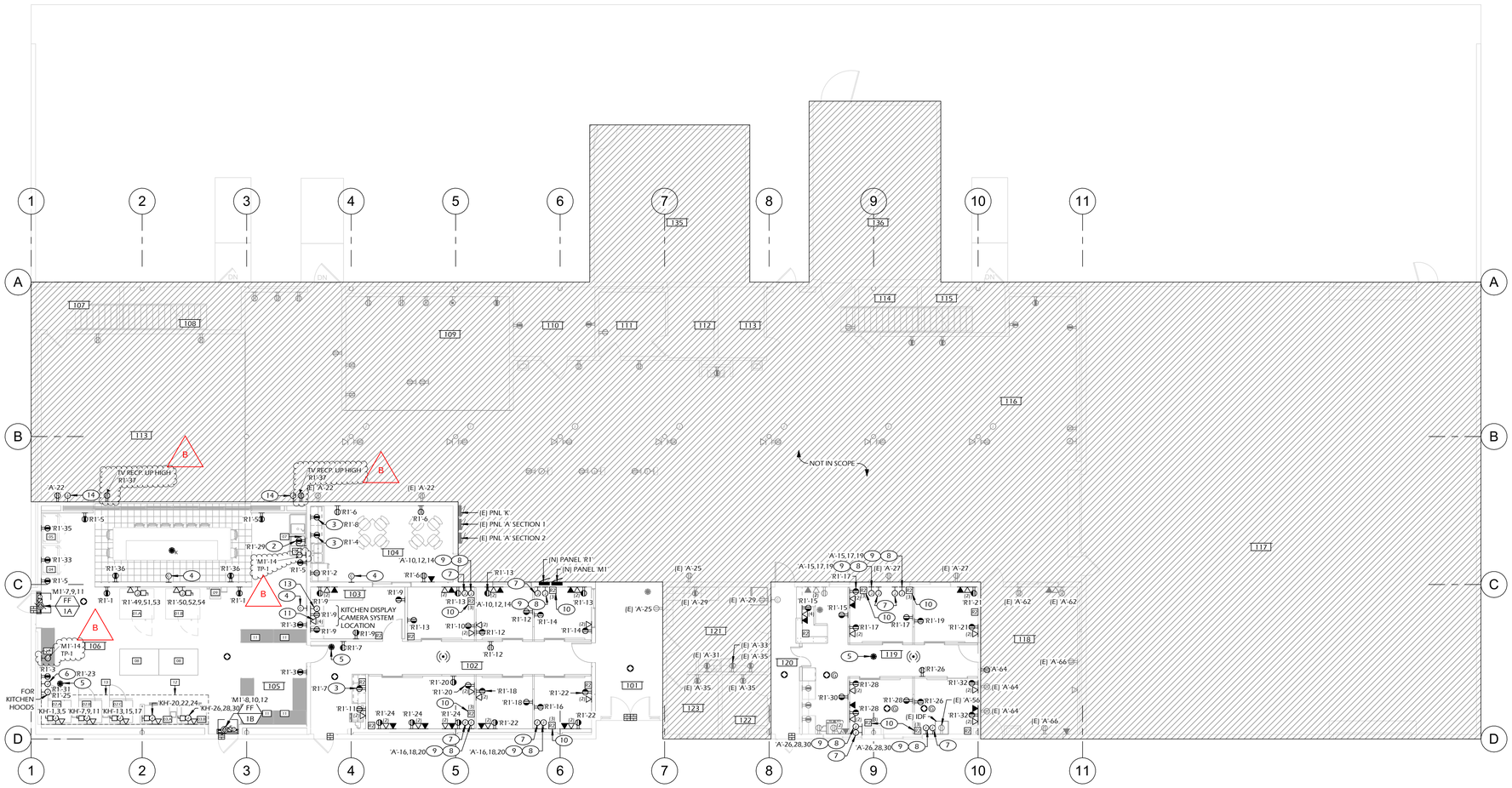
Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

	Designed By: Designer	Copyright Darden Architects
Scale:	Drawn By: Author	X/E107
Project Number: 2310	Checked By: Checker	AD2-EX04
Date: Issue Date	Reviewed By: Approver	



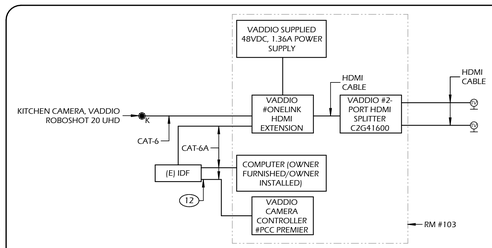
POWER AND SIGNAL FLOOR PLAN - FIRST FLOOR

1 — 1/8" = 1'-0"

TEST KITCHEN - EQUIPMENT SCHEDULE

#	DESCRIPTION	ELECTRICAL VOLT	PH	AMPS	kW	CONNECTIONS	CONDUIT SIZE (IN)	CONDUCTOR #	SIZE	REMARKS
01.A & 01.B	ROLL IN BLAST CHILLER AND SHOCK FREEZER	208	3	31.4		HARWIRED	3/4	5	#8	REFER TO PLANS FOR CIRCUIT AND PANEL SCHEDULE FOR CIRCUIT BREAKER
02.A, 02.B, & 02.C	COMBINATION STEAMER & CONVECTION OVEN	208	3		67.9	HARWIRED	2	5	#3/0	
03.A & 03.B	TILTING SKILLET	208	3		23	HARWIRED	1-1/4	5	#4	
04	REACHIN FREEZER	120	1	11		NEMA 5-20R	3/4	3	#8	
05	REACHIN REFRIGERATOR	120	1	5.4		NEMA 5-15R	3/4	3	#8	
06	FOOD PREP 2 COMPARTMENT SINK									N/A
07	KITCHEN FAUCET									N/A
08	STAINLESS STEEL WORK COUNTER									N/A
09	HAND SINK									N/A
10	CAMSHELVING WITH VENTED SHELVES									N/A
11	CAMSHELVING WITH VENTED SHELVES									N/A
12	GREASE HOOD	120				HARWIRED	3/4	3	#12	REFER TO PLANS FOR CIRCUIT AND PANEL SCHEDULE FOR CIRCUIT BREAKER
13	GREASE HOOD	120				HARWIRED	3/4	3	#12	

GENERAL NOTES:
1. COORDINATE RECEPTACLE TYPE WITH EQUIPMENT PRIOR TO INSTALLATION.
2. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.



NOTES:
1. CONTRACTOR TO COORDINATE WITH THE DISTRICT'S I.T. FOR NETWORK CONNECTIONS.

KITCHEN DISPLAY CAMERA SYSTEM RISER DIAGRAM

2 — NOT TO SCALE

ROOM SCHEDULE

NEW BUILDING ROOMS

###	ROOM NAME	###	ROOM NAME
101	ENTRY	113	MENS R.R.
102	OPEN OFFICE	114	STORAGE
103	OFFICE	115	STAIRWELL
104	BREAK ROOM	116	SALAD PREP.
105	DRY STORAGE	117	WAREHOUSE
106	TEST KITCHEN	118	OFFICE
107	STORAGE	119	OPEN OFFICE
108	STAIRWELL	120	RECEPTION
109	KITCHEN PREP.	121	STAFF LOUNGE
110	EQUIPMENT	122	MENS R.R.
111	WOMENS LOCKERS	123	WOMENS R.R.
112	WOMENS R.R.		

SHEET NOTES

1. NOT USED.
2. INSTALL ADJACENT TO GARBAGE DISPOSAL.
3. MOUNT ABOVE COUNTERTOP, COORDINATE WITH ARCHITECTURAL ELEVATIONS.
4. PROVIDE AND INSTALL A 12-INCH BLACK/WHITE BATTERY OPERATED CLOCK TO MATCH EXISTING.
5. PROVIDE AND INSTALL A 3/4" CONDUIT AND CAT6A DATA CABLE PROVISIONS BACK TO THE EXISTING IDF FOR FUTURE CAMERA.
6. PROVIDE AND INSTALL 3/4-INCH CONDUIT AND (3)#12 AWG CONDUCTORS BACK TO PANEL CIRCUIT INDICATED FOR THE ANSUL PANEL AND MAKE ALL CONNECTIONS.
7. PROVIDE AND INSTALL A 10x10x6 (HxWxD)-INCH DATA JUNCTION BOX WITH A 1-1/2-INCH LIQUID TIGHT FLEX CONNECTIONS FROM THE J-BOX TO THE DATA RACEWAY PORTION OF EACH ADJACENT STEELCASE CUBICLE PANEL SYSTEM WALL.
8. PROVIDE AND INSTALL A 10x10x4 (HxWxD)-INCH POWER JUNCTION BOX WITH A 1-1/4-INCH LIQUID TIGHT FLEX CONDUIT FOR ADJACENT STEELCASE CUBICLE PANEL SYSTEM WALL AND MAKE CONNECTIONS TO THE POWER INPUT TERMINAL. PROVIDE AND INSTALL AT LEAST ONE CONTROLLED RECEPTACLE FOR EACH WORKSTATION.
9. PROVIDE DEDICATED NEUTRAL WIRE FOR EACH CIRCUIT. PROVIDE ISOLATED GROUND WIRE. REFER TO MANUFACTURERS WIRING SCHEMATICS FOR SINGLE 3-PHASE CIRCUITS FROM PANEL.
10. CUBICLES CIRCUIT TO BE ROUTED VIA THE PLUG LOAD CONTROLLER. REFER TO TYPICAL ELECTRICAL DETAILS.
11. DATA PORT FOR THE CAMERA CONTROLLER SHALL BE CONNECTED BACK TO TH EXISTING POE+ SWITCH IN THE EXISTING IDF.
12. CONNECT TO (E) POE+ SWITCH IN IDF.
13. PROVIDE AND INSTALL A HDMI WALL PLATE WITH TWO HDMI PORTS FOR THE VADDIO #2-PORT HDMI SPLITTER. PROVIDE AND INSTALL (1) HDMI CABLE WITHIN A 1-1/2-INCH CONDUIT BACK TO EACH TV LOCATION IN RM 113 AND TERMINATE THE HDMI CABLE. PROVIDE AND INSTALL HDMI CABLE AND MAKE CONNECTIONS FROM THE VADDIO HDMI SPLITTER TO THE HDMI WALL PLATE HDMI PORTS.
14. PROVIDE AND INSTALL A HDMI WALL PLATE WITH HDMI PORT AT THE TV CONNECTION INPUT LEVEL AND TERMINATE THE HDMI CABLE PER SHEET NOTE 13. PROVIDE AND INSTALL HDMI CABLE AND MAKE CONNECTIONS FROM THE TV TO THE HDMI WALL PLATE HDMI PORT.

Agency Approval

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REGISTERED PROFESSIONAL ENGINEER JOHN BORRELLI No.E16390 EXP.6/30/25 ELECTRICAL STATE OF CALIFORNIA

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Child Nutrition Kitchen Remodel

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769 S. Pine St, Madera, CA 93637
Project

Electrical Systems-Power and Signal Floor Plan - First Floor
Drawing

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LICENSED ARCHITECT MICHAEL K. FERNALD No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date
B	Addendum 2 / City of Madera Re-Submittal 1	09/26/24

Revision

	Designed By: Designer	Copyright Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: Author	X/E114
Project Number: 2310	Checked By: Checker	AD2-EX05
Date: Issue Date	Reviewed By: Approver	