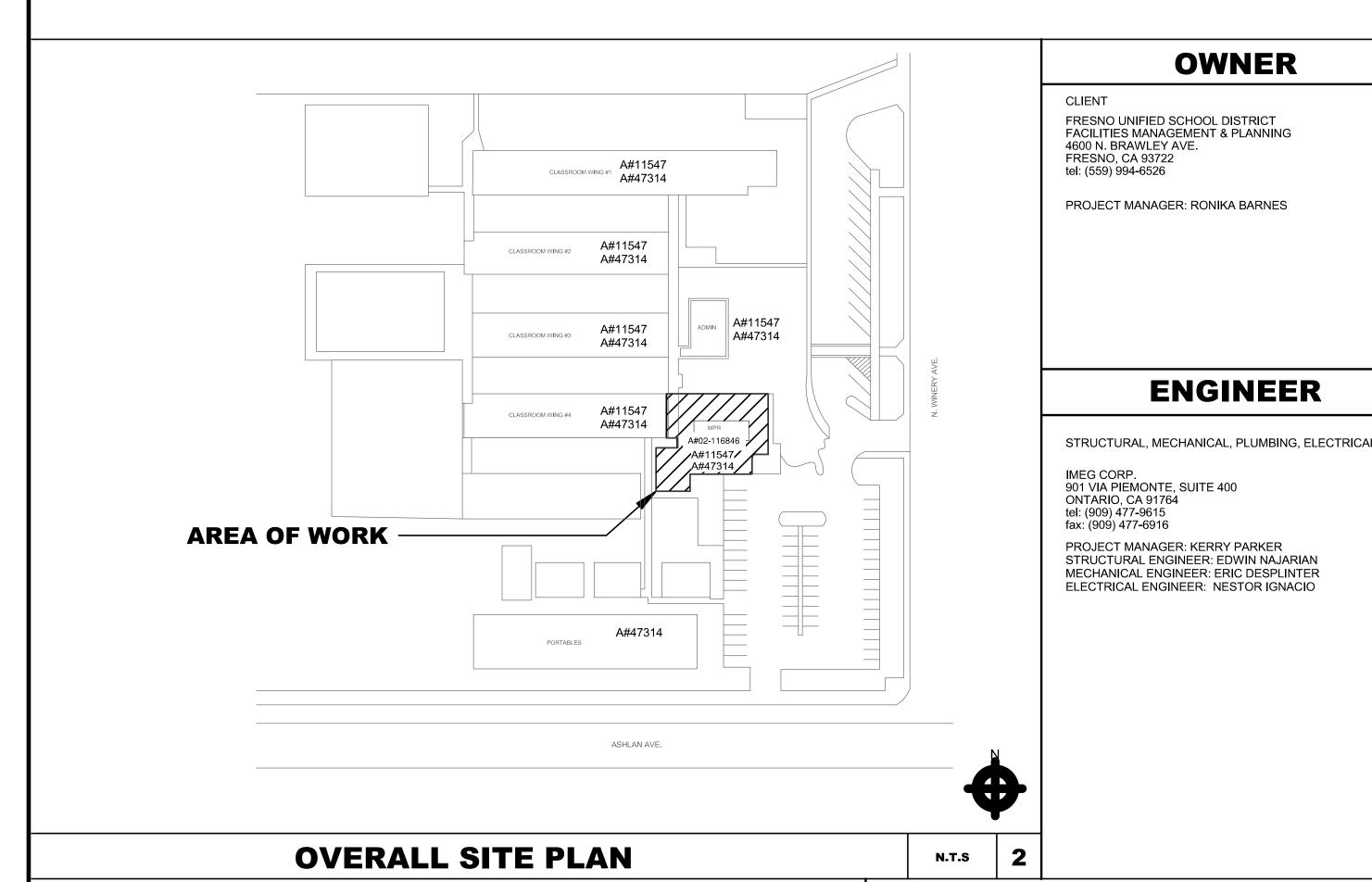
# FRESNO UNIFIED SCHOOL DISTRICT VIKING ELEMENTARY SCHOOL

# MULTIPURPOSE BUILDING HVAC REPLACEMENT

**4251 N WINERY AVE, FRESNO, CA 93726** 



**PROJECT LOCATION** 

Viking Elementary

E Dakota Ave

Blackbeard's Family

W Shaw Ave

E Dakota Ave

N.T.S

## **OWNER CODE REFERENCES** FRESNO UNIFIED SCHOOL DISTRICT FACILITIES MANAGEMENT & PLANNING

**ENGINEER** 

Maintenance Plan Review and Inspection Procedures

**FUSD MAINTENANCE PLAN REVIEW** 

REVIEWER NAME (PRINT)

Design Guidelines from Maintenance as well as any project related comments will be offered at conceptual.

There will be a one week review period offered. Review appointments will be scheduled by Tim Patterson

Facilities PMs or Assistant PMs will notify Tim Patterson via email with a Cc to Jason Duke when plans are available for review.

Telecomm & Data Review will be coordinated through Jack Pambukyan 457-3165 (Jack Pambukyan@fresnounified.org)

Maintenance plan and spec review will take place at 60%. Just prior to DSA submission.

INSPECTION PROCEDURE - This procedure is to be included in the Pre-Construction Package

Both Plans & Specs will have review block shown above.

Maintenance Plan Review Calendar is on Facilities SharePoint

Architect will scan review set and return original to FUSD.

Inspections will take place within 48 hours of request.

Plan Reviewer will meet with either the Facilities PM or Assistant PM

IOR will walk inspection with shop representative and PM if necessary.

Comments and/or corrections will be noted in IOR daily log and in issues log

Any discrepancies and/or disagreements will be settled by the PM & Consultants.

Plan reviewer will utilize a red sharple or similar to comment and/or correct

Inspections & timing of inspections will be much like those of local municipalities

Inspections will be requested by contractor via email to the PM, IOR & Tim Patterson

IOR will coordinate exact day and time through Tim Patterson, the Shop with Cc to PM

- 2019 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2 2018 INTERNATIONAL BUILDING CODE
- CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3 (2017 NATIONAL ELECTRICAL CODE (NEC)
- 2019 CALIFORNIA MECHANICAL CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4 (2018 UNIFORM MECHANICAL CODE (UMC)
- 2019 CALIFORNIA PLUMBING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5 (2018 UNIFORM PLUMBING CODE (UPC)
- 2019 CALIFORNIA ENERGY CODE (CEC)
- 2019 CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9 (2018 INTERNATIONAL FIRE CODE (IFC) AND 2018 CALIFORNIA AMENDMENTS)
- AMERICANS WITH DISABILITIES ACT (ADA) TITLE II - ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAG) 1990 STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO-DATE
- ACCESSIBILITY STANDARDS CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19
- CFC CH 33 FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION

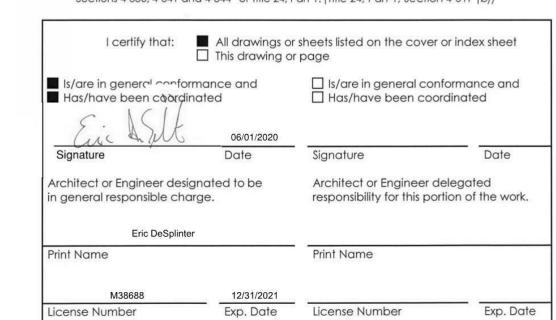
## FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

licensed and/or authorized to prepare such drawings in this state. It has been

1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared

into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. (Title 24, Part 1, Section 4-317 (b))



### 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1

- 2019 CALIFORNIA ELECTRICAL CODE (CEC)
- CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 11
- 2019 CALIFORNIA REFERENCED STANDARDS CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12
- CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE
- TITLE 19 CALIFORNIA CODE OF REGULATIONS PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

## STATEMENT OF GENERAL **CONFORMANCE**

## **Statement of General Conformance**

■ The drawings or sheets listed on the cover or index sheet ☐ The drawing, page of specifications/calculations have been prepared by other design professionals or consultants who are

2) coordination with my plans and specifications and is acceptable for incorporation

duties, and responsibilities under Sections 17302 and 81138 of the Education Code and

CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIR3ED BY SECTION 4-338, PART 1, TITLE 24, CCR.

> A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED B Y THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER)

ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24,

CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING

WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION

CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS

CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING

AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA

SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR)

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE

**SHEET INDEX** 

GENERAL NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST

GENERAL NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST

**PAST APPLICATION NOTES** 

PROJECT DESCRIPTION

PROJECT CLASSIFICATION: (INSPECTOR CLASSIFICATION #3)

M0.1

M0.2

M0.3

M4.2

M5.1

E3.2

E4.1

Grand total: 18

PROJECT LOCATION

**CLASS 3 PROJECT** 

4251 N WINERY AVE

ARCHITECTURAL SCOPE:

STRUCTURAL SCOPE:

**BUILDINGS: MULTI-PURPOSE** 

**MECHANICAL SCOPE:** 

**BUILDINGS: MULTI-PURPOSE** 

PLUMBING SCOPE

**BUILDINGS: MULTI-PURPOSE** 

**ELECTRICAL SCOPE:** 

**BUILDINGS: MULTI-PURPOSE** 

ADDITIONAL PROJECT SCOPE:

AND REPLACE WITH DX HEAT PUMP SYSTEMS.

EITHER ON THE ROOF OR THE SIDE OF THE BUILDING.

PATCH FLOORS, WALLS, ROOFS, TO MATCH EXISTING.

REMOVE AND REPLACE EXISTING ROOF TOP HVAC UNITS.

REVIEW STRUCTURAL MOUNTING DETAIL AND EXISTING ATTACHMENT

REMOVE EXISTING EVAPORATIVE COOLERS SERVING THE EXISTING KITCHEN

INSTALL NEW CONDENSATE PIPING TO SERVICE NEW DX HEAT PUMP SYSTEMS.

REMOVE POWER LINE AND DISCONNECT SERVING EXISTING HVAC EQUIPMENT

INSTALL NEW POWER LINE AND DISCONNECT TO THE NEW DX HEAT PUMP

EXTENT OF NEW PIPING IS DETERMINED WHERE EXISTING PIPES TERMINATE

SCHEDULES

DETAILS

DETAILS

DETAILS

CONTROLS

DEMOLITION FLOOR PLAN

DEMOLITION ROOF PLAN

REMODEL FLOOR PLAN REMODEL ROOF PLAN

OVERALL SITE PLAN DEMOLITION POWER PLAN DEMOLITION ROOF PLAN REMODEL POWER PLAN

REMODEL ROOF PLAN

IDENTIFICATION STAME DIV. OF THE STATE ARCHITE APP: 02-118209 INC: REVIEWED FOR SS ✓ FLS ✓ ACS □



## VIKING E.S. KITCHEN **HVAC ADDITION**

4251 N WINERY AVE, FRESNO, CA 93726



SUITE 400 ONTARIO, CA www.imegcorp.com

PROFESSIONAL SEAL



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SHEET INFORMATION **BID SET** 10/20/2020

SHEET TITLE **TITLE SHEET** 

**AS NOTED** 

SHEET NUMBER

**VICINITY MAP** 

Bid No. 21-43, Viking and Vinland Elementary schools and Cooper Middle School Kitchen HVAC Additions

Vinland Elementary School

**VIEW KEY** 

## **APPLICABLE CODES**

- 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1
- 2019 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2 (2018 INTERNATIONAL BUILDING CODE (IBC) W/CALIFORNIA
- 2019 CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3 (2017 NATIONAL ELECTRICAL CODE (NEC) W/CALIFORNIA AMENDMENTS) 2019 CALIFORNIA MECHANICAL CODE CALIFORNIA CODE OF REGULATIONS (CCR)
- TITLE 24, PART 4 (2018 UNIFORM MECHANICAL CODE (UMC) W/CALIFORNIA 2019 CALIFORNIA PLUMBING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE
- 24, PART 5 (2018 UNIFORM PLUMBING CODE (UPC) W/CALIFORNIA AMENDMENTS) 2019 CALIFORNIA ENERGY EFFICIENCY STANDARDS CODE CALIFORNIA CODE OF
- REGULATIONS (CCR) TITLE 24, PART 6 2019 CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9 (2018 INTERNATIONAL FIRE CODE (IFC) W/CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA REFERENCED STANDARDS CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12 AMERICANS WITH DISABILITIES ACT (ADA) TITLE II - ACCESSIBILITY GUIDELINES FOR
- BUILDINGS AND FACILITIES (ADAAG) 1990 STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO-DATE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE

## ACCESSIBILITY STANDARDS CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19

PARTIAL LIST OF APPLICABLE STANDARDS: NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

(CA AMANDED) 2016 EDITION NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS

(CA AMENDED) 2016 EDITION NFPA 17 - STANDARD FOR THE INSTALLATION OF DRY CHEMICAL EXTINGUISHING SYSTEMS

2017 EDITION NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS

2017 EDITION NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION

NFPA 22 - STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION

2013 EDITION

NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMANDED) 2016 EDITION

NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMANDED) 2016 EDITION

NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES

NFPA 92 - STANDARD FOR SMOKE CONTROL SYSTEMS 2018 EDITION

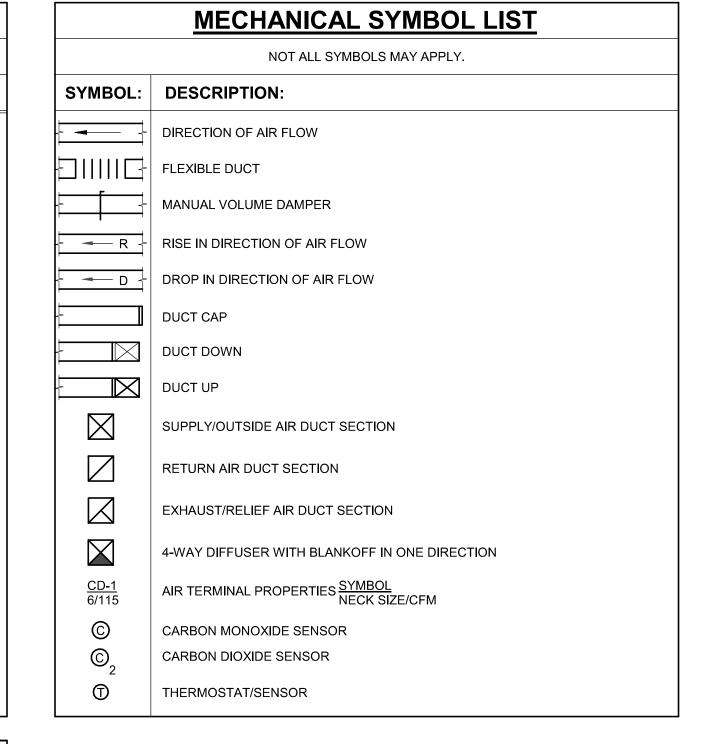
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

## **MECHANICAL SYMBOL LIST** NOT ALL SYMBOLS MAY APPLY. SYMBOL: DESCRIPTION: REFRIGERANT HOT GAS —НG—— REFRIGERANT LIQUID —LPC—— LOW PRESSURE CONDENSATE —PC—— | PUMPED CONDENSATE REFRIGERANT SUCTION -suc-PIPE CAP PIPE DOWN PIPE UP OR UP/DOWN PITCH PIPE IN DIRECTION DIRECTION OF FLOW IN PIPE **ROUTE TO DRAIN** NEW CONNECTION ——|I——— | DIELECTRIC CONNECTION UNION/FLANGE SHUTOFF VALVE NORMALLY OPEN SHUTOFF VALVE NORMALLY CLOSED SOLENOID VALVE <del>-</del>D- FLEXIBLE CONNECTION **REDUCER - REFERENCE SPECIFICATION** FOR CONCENTRIC/ECCENTRIC AND FOT/FOB

	MECHANICAL ABBREVIATION KEY						
ABBR:	DESCRIPTION:						
AD	ACCESS DOOR						
AFF	ABOVE FINISHED FLOOR						
CD-E	CEILING DIFFUSER - EXISTING						
EA	EXHAUST/RELIEF AIR						
FOB	FLAT ON BOTTOM						
FOT	FLAT ON TOP						
MA	MIXED AIR						
MV	MIXING VALVE						
NC	NEW CONNECTION						
N.C.	NORMALLY CLOSED						
NIC	NOT IN CONTRACT						
N.O.	NORMALLY OPEN						
OA	OUTSIDE AIR						
RA	RETURN AIR						
SA	SUPPLY AIR						
TD	TRANSFER DUCT						
TYP	TYPICAL						
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)						
UNO	UNLESS NOTED OTHERWISE						

CONTRACTOR ABBREVIATION KEY						
ABBR:	DESCRIPTION:					
E.C.	ELECTRICAL CONTRACTOR					
G.C.	GENERAL CONTRACTOR					
M.C.	MECHANICAL CONTRACTOR					
P.C.	PLUMBING CONTRACTOR					
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR					

ADA GUIDELINES - FRONT ACCESS



### **APPLIOCABLE CODE: 2019 CBC**

1617A.1.25 AND 1617A.1.26.

INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26, AND 30:

ALL PERMANENT EQUIPMENT AND COMPONENTS.

2. TEMPORARY, MOVEABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS

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

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND THE ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRAVERSE AND

A. COMPNENTS WEIGHING LESS THAN 400 POUNDS AND HAVEING A CENTER OF MASS

LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE: 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

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

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL

IN ASCE 7-10 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1617A.1.24,

DISTRIBUTION SYSTEMS (E): MP  $\bowtie$  MD  $\bowtie$  PP  $\stackrel{\cdot}{\square}$  É  $\stackrel{\cdot}{\square}$  -OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. MP ☐ MD ☐ PP ☐ E ☐ -OPTION 2: SHALL COMPLY WITHT THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #

ADA GUIDELINES - SIDE ACCESS

## **DSA ANCHORAGE NOTES:**

**MEP COMPONENT ANCHORAGE NOTE:** ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND

(E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.

RESTRAINED IN A MANNER APPROVED BY DSA.

ATTACHED TO THE STRUCTURE BUT NEED NOT DEMOSTRATE DESIGN COMPLIANCE WITH THE

LONGITUDINAL DIRECTIONS

DIRECTLY SUPPORT THE COMPONENT

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

ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

### 10" MAX. 10"-24" MAX. INSTALL ABOVE COUNTER INSTALL DEVICE AT 44" INSTALL DEVICE AT 42" INSTALL ABOVE COUNTER INSTALL DEVICE AT 18" DEVICE AT 44" ABOVE **DEVICE AT 40" ABOVE** ABOVE FINISHED FLOOR. ABOVE FINISHED FLOOR. ABOVE FINISHED FLOOR. FINISHED FLOOR. FINISHED FLOOR.

# ADA STANDARDS FOR ACCESSIBLE DESIGN

### **MECHANICAL GENERAL NOTES:**

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.

2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.

3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK, DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.

4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER

5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.

6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF 7. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS,

FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND 8. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE

GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC, COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING. AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE

SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE. 10. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL. PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE

TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS 11. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED

OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL

RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT. 12. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS,

PIPING, DUCTWORK, ETC. 13. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.

14. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.

15. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT. 16. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER

NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

## **MECHANICAL RENOVATION NOTES:**

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS. EXISTING BUILDING DOCUMENTS, AND STAFF, VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.

2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.

3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS. 4. EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED

5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF

CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO

6. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL

SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK. 7. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.

8. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.

9. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.

### **PIPING GENERAL NOTES:**

1. PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN. 2. INSTALL ALL REFRIGERANT LIQUID AND SUCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.

## **VENTILATION GENERAL NOTES:**

1. ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO

## **TAB POST-CONSTRUCTION NOTES:**

1. TAB CONTRACTOR SHALL COMPILE AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 15051.

2. THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.

## MECHANICAL SHEET INDEX

GENERAL NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST M0.1 M0.2 SCHEDULES M0.3 TITLE 24 M2.1 DEMOLITION FLOOR PLAN M2.2 **DEMOLITION ROOF PLAN** M3.1 REMODEL FLOOR PLAN M3.2 REMODEL ROOF PLAN M4.1 **DETAILS** M4.2 **DETAILS** 

CONTROLS Total: 10

M5.1

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-118209 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □



## VIKING E.S. KITCHEN **HVAC ADDITION**

4251 N WINERY AVE, FRESNO, CA 93726



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PROFESSIONAL SEAL



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> REFERENCE SCALE IN INCHES

SHEET INFORMATION BID SET 10/20/2020 19000643.00

Job Number

SHEET TITLE GENERAL NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST

As indicated

SHEET NUMBER

Bid No. 21-43, Viking and Vinland Elementary schools and Cooper Middle School Kitchen HVAC Additions EXHIBIT A

#### **BLOWER COIL UNIT SCHEDULE** NOTES: 1.COMPLETE WITH INTEGRAL CONDENSATE PUMP, WALL MOUNT THERMOSTAT, AND MANUFACTURER HIGH EFFICIENCY FILTER OPTION. TAG<br/>NAMEAREA SERVEDCONFIGURATIONMAX.<br/>CFMTOTAL<br/>MBHTOTAL<br/>MBHTOTAL<br/>MBHHPVOLTAGEFC-1KITCHEN4 WAY CASSETTE123542.1540.16208 ANCHORAGE DETAIL PHASES MCA MOCP WEIGHT **MANUFACTURER** MODEL 1 1.27 15 Mitsubishi Electric TPLFYP048EM140A 2/M4.1

COND	NDENSING UNIT SCHEDULE												
NOTES:													
		NOMINAL				ELECT	FRICAL					ANCHORAGE	
TAG NAME	AREA SERVED	DESIGN TONS	SEER	REFRIGERANT	VOLTAGE	PHASES	MCA	MOCP	MANUFACTURER	MODEL	WEIGHT	DETAIL	NOTES
CU-1	KITCHEN	4	22.6	R-410A	208	1	29	45	Mitsubishi Electric	TUMYP0481AK42NA	275	1/M4.1	

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-118209 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗆



# VIKING E.S. KITCHEN HVAC ADDITION

4251 N WINERY AVE, FRESNO, CA 93726



901 VIA PIEMONTE SUITE 400 ONTARIO, CA 91764

PH: 909.477.6915 FAX: 909.477.6916 www.imegcorp.com

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SHEET INFORMATION 10/20/2020 SHEET TITLE **SCHEDULES** 

**Mechanical Systems** CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANO This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations . A. GENERAL INFORMATION 01 Project Location (city) 03 Occupancy Types Within Proje 06 # of Stories (Habitable Above Grade) Office (B) Retail (M) ☐ Non-refrigerated Warehouse (S) Hotel/ Motel Guest Rooms (R-1) School (E) Healthcare Facility (H High-Rise Residential (R-2/R-3) B. PROJECT SCOPE This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in Air System(s) Wet System Component Dry System Components Mechanical Controls ☐ Ductwork Cooling Towers Chillers Zonal Systems/ Terminal Boxes Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.0.001 Report Generated: 2020-03-25 21:54:53 Schema Version: rev 20190401 STATE OF CALIFORNIA **Mechanical Systems** CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE NRCC-MCH-E Viking ES Kitchen Report Page: 4251 N Winery Ave Date Prepared (Page 4 of 9) H. FAN SYSTEMS & AIR ECONOMIZERS This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e) and §140.4(m) for fan systems. Fan systems serving healthcare facilities, or those serving only process loads, are exempt from these requirements and do not need to be included in Table H. System Name: FC-1/CU-1 NA: 54 kBtu/h cooling Designed per and (m) Fixed Flow Controls: Fan Function Design HP Design Airflow through Item Tag (CFM) Device Device (CFM) 0.14 Exhaust 0.25 Total System Design Supply Airflow (CFM): 1236 0.39 <sup>1</sup> FOOTNOTES: Computer room economizers must meet requirements of \$140.9(a) and will be documented on the NRCC-PRC-E document. <sup>2</sup> If total filter pressure drop (SPa) is greater than 1 in WC, or 245 Pascal then enter it and total fan pressure drop across the fan (SPf) for system. I. SYSTEM CONTROLS This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b)2E for altered space conditioning systems. Shut-Off Window Interlocks per System Name §110.2(b) & (c)1, Controls Temp. Reset Zoning Being Served Controls §120.2(b) §140.4(n) (ft²) §120.2(a)or §141.0(b)2E §120.2(e) §140.4(f) Auto Timer 4 Hour Timer FC-1/CU-1 Setback **EMCS** Provided Single zone <= 25,000 ft<sup>2</sup> Included Switch <sup>1</sup>FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats. \*Notes: Controls with a \* require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d); EXCEPTION 1 to §140.4(f) Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.0.001 Report Generated: 2020-03-25 21:54:53 Schema Version: rev 20190401 STATE OF CALIFORNIA **Mechanical Systems** CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-MCH-E Viking ES Kitchen Report Page: 4251 N Winery Ave Date Prepared: Project Name: (Page 7 of 9) **Project Address:** O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE elections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019\_compliance\_documents/Nonresidential\_Documents/NRCA/ Yes Form/Title NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in • unction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap. NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes'. If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes". NRCA-MCH-04-A - Air Distribution Duct Leakage NRCA-MCH-05-A - Air Economizer Controls NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) oncentration setpoints. NRCA-MCH-07-A Supply Fan Variable Flow Controls NRCA-MCH-08-A Valve Leakage Test NRCA-MCH-09-A Supply Water Temperature Reset Controls NRCA-MCH-10-A Hydronic System Variable Flow Controls NRCA-MCH-11-A Automatic Demand Shed Controls NRCA-MCH-12-A FDD for Packaged Direct Expansion Units NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy System DX AC Systems are included in teh scope permit applicant should move this form to 'Yes". NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External melt, Ice Harvester, Brine, Ice-Slurry, Eutecti Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapsulated (Ice Ball) Systems are included in the scope, permit applicant should move this

Registration Date/Time:

Report Version: 2019.0.001

Schema Version: rev 20190401

STATE OF CALIFO	100000	stems														
NRCC-MCH-E														CALIFORNIA E	NERGY COMN	
CERTIFICATE O		PLIANCE				,	fileina I	TC Vitaban Ban	art Dage							C-MCH-E
Project Name:								ES Kitchen Rep Vinery Ave Dat								e 2 of 9)
Project Addres	55:					423	DT IA A	vinery Ave Dat	е ггераг	eu.					3/,	25/2020
C. COMPLIA	NCE R	ESULTS										-				
						ce document is er to Table D., or							litable l	by the user. If this i	table says "DO	ES
01		02		03		04		05	T	06		07		08	09	
System Summary §110.1, §110.2,	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	§110.2, §120.2,	AND	Ventilation §120.1	AND	Terminal I Control §140.4(c	s AND	Distribution §120.3, §140.4(I)	AND	Cooling Towers §110.2(e)2	Compliance	Results
§140.4 (See Table F)		(See Table G)		(See Table H		§140.4(f) (See Table I)		(See Table J)		(See Table	: K)	(See Table L)		(See Table M)	-	
Yes	AND	,	AND	Yes	AND	1	AND	Yes	AND	,	AND		AND	100000000000000000000000000000000000000	COMPLI	IES
				Mandator	Measu	res Compliance	e (See	Table Q for	Details)				COMF	PLIES		
D EVCENTIO	ONA!	CONDITIONS														
			table co	omments bec	ause of :	selections made	or do	ata entered ir	tables	throughou	t the forn	ı.				
E ADDITION	NAL DE	AAA DUG														_
E. ADDITION		(10000000000000000000000000000000000000	hy the	nermit annlic	ant to th	ne Authority Ha	vina I	urisdiction								
This table me	ruues re	emarks made	by the	permit applic	in to ti	ic Authority na	villy 5	arisarction.								
		UMMARY (D														
		demonstrate (.4(k) or §141.	10000000			quipment with	mana	latory require	ements f	found in §1	10.1 and	§110.2(a) and	d presci	riptive requiremen	ts found in §14	40.4(a)
						lensers, heat pu	ımps,	, VRF, furnace	es and u	nit heaters	5)					
01		02			03		Ť	04		05	06	07	08	3 09	10	11
Registration N		: ficiency Standa	rds - 20	19 Nonresident	ial Comp	liance		Registration Report Versi Schema Vers	on: 2019	.0.001				Registratio	on Provider: Ene	
Mechanic		stems												CALIEOPNIA	NERGY COMN	AISSIO1
NRCC-MCH-E CERTIFICATE O	F COME	PLIANCE												CALII ORINIA E		C-MCH-E
Project Name:						V	iking	ES Kitchen Rep	ort Page	::						e 5 of 9
Project Addres							_	Vinery Ave Dat								25/2020
J. VENTILAT	ION A	ND INDOOR	AIR Q	UALITY												
occupancies.	For alt	erations, only	vential	tion systems l	eing alt		scop	e of the perm	it appli	cation need	to be do		A	e residential and h e. In lieu of this tab		?d
01	_											alculations inst	tead of	completing this ta	ble.	
02	_					ded new or alte										
03												aces to meet r	equired	ventilation rates	per §120.1(c)2	2.
		Hotel/ Motel						,					750			
		04		Ī		05					06			07		
	Т				c .	Deele Or of	. T		grape ones.				Air Fil	tration per §120.1	(c) and §141.	0(b)2 <sup>2</sup>
System Name	e	FC-1/	CU-1		system	Design OA CFN Airflow <sup>1</sup>	1	94.5	ansfer A	1000		0		Provided per §12 Hotel/M	0.1(c) (NR and	

		DOOR AIR QUALITY									
occupancies. Fo	or alteration	ns, only ventialtion syste	ems being altered	within the so	ope of the	permit app	lication nee	B for all nonresidential, ed to be documented in t			
01 01	tion rates a	Check the box if the				*		NAME OF THE PARTY.	tead of completing th	is table	
02								tead of completing th	13 (30)(6)		
03		Check the box if the	project is using na	atural ventila	tion in any	nonresiden	tial or hote	I/motel spaces to meet r	equired ventilation ra	ates per §120.1(c)2.	
Nonresidential	and Hotel/	Motel Ventilation Syst	ems							-	
	04			05				06	07		
		System Design OA CFM		Managerra	System	em Design		Air Filtration per §120.1(c) and §141.0(b)2 2			
System Name		FC-1/CU-1		Airflow <sup>1</sup> 94.5		Transfer Air CFM		0	Provided per §120.1(c) (NR and Hotel/Motel))		
08		09	10	11	12	13	14	15		16	
		Mechanical Ven	tilation Required	per §120.1(c)	3 3		Exh. \	/ent per <u>§120.1(c)4</u>	200		
Space Name ot item Tag		Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	neonles		Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 6		
Kitchen		All others	630			94.5	441	445	DCV	NA: Not required pe §120.1(d)3	
									Occ Sensor		

- ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing
- outside air to occupiable space. <sup>3</sup> Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
- <sup>4</sup> See <u>Standards Tables 120.1-A</u> and 120.1-B.
- <sup>5</sup> For lecture halls with fixed seating, the expected number of occupants shall be shall be determined in accordance with the California Building Code. <sup>6</sup> §120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft<sup>2</sup> or smaller, multipurpose rooms less than 1,000 ft<sup>2</sup>, classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

CALIEODNIA ENERGY COMMISSION

Ontario CA 91764

Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Generated: 2020-03-25 21:54:53 Report Version: 2019.0.001 Schema Version: rev 20190401

TATE OF CALIFORNIA	
Mechanical Systems	
IRCC-MCH-F	

Registration Provider: Energysoft

Report Generated: 2020-03-25 21:54:53

NRCA-MCH-19-A Occupancy Sensor Controls

NRCC-MCH-E			CALIFORNIA EIVERGT COMMINISSIC
CERTIFICATE OF COMPLIANCE			NRCC-MCH
Project Name:	Viking ES Kitchen	Report Page:	(Page 8 of
Project Address:	4251 N Winery Ave	Date Prepared:	3/25/202
O. DECLARATION OF REQUIRED CERTIFICA	TES OF ACCEPTANCE		W

	•	NRCA-MCH-20 Multi-Family Ventilation		
0	•	NRCA-MCH-21 Multi-Family Envelope Leakage		
. DECLARA	TION OF RE	EQUIRED CERTIFICATES OF VERIFICATION		
These docum	ents must b	de based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Tabl e completed by a HERS Rater and provided to the building inspector during construction. The finsl documents must be creted by a HER: e at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/		
Yes	No	Form/Title	Field In	spector
163	140	romynae	Pass	Fail
0	•	NRCV-MCH-04-H Duct Leakaage Test NOTE: Must be completed by a HERS Rater		
	•	NRCV-MCH-24 Enclosure Air Leakaage Worksheet NOTE: Must be completed by a HERS Rater		

0	NRCV-MCH-32 Local Mechanical Exhaust NOTE: Must be completed by a HERS Rater     □     □     □							
O MANDA	TODY MEAS	SURES DOCUMENTATION LOCATION		10				
		ate where mandatory measures are documented in the	plan set or construction documentation	y				
		01		02				
Compliance	with Mandat	cory Measures documented through MCH	Yes	Plan sheet or construction document location				
Mandatory I	Measures No	te Block <sup>1</sup>	ies	M-Shee	ts			
				At				

Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.0.001 Report Generated: 2020-03-25 21:54:53 Schema Version: rev 20190401

STATE OF CALIFORNIA **Mechanical Systems** 

his section does not apply to this project.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

NRCI-MCH-01-E - Must be submitted for all buildings

CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIAN Viking ES Kitchen Report Page: 4251 N Winery Ave Date Prepared Project Name: (Page 3 of 9) Project Address:

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) Smallest Size quipment Type per Tables 110.2 & Name or | Equipment Category per Item Tag Title 20 Rated Heating Per Design (kBtu/h) <u>Tables 110.2</u> Available §140.4(a) Heating (kBtu/h) (kBtu/h) Output (kBtu/h) C-1/CU-1 Unitary Heat Pumps Air-cooled, split (3 phase) FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per

§140.4(a). Healthcare facilities are excepted. <sup>2</sup>It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

<sup>3</sup> If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

dy dsk joi lodd calca	iations usea for	compliance per §14	0.4(b).				
y (other than Packag	ge Terminal Air (	Conditioners (PTAC)	and Package Term	ninal Heat Pumps (P	THP))	20	
02	03	04	05	06	07	08	09
		Heati	ng Mode			Cooling Mode	
Size Category (Btu/h)	Rating Condition ( °F)	Efficiency Unit	Minimum Efficiency Required per Tables <u>110.2</u> / <u>Title 20</u>	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables <u>110.2</u> / <u>Title 20</u>	Design Efficiency
65,000		HSPF	8.2	12	SEER	13.0	22.6
	02  Size Category (Btu/h)	O2 03  Size Category (Btu/h) Rating Condition (°F)	(other than Package Terminal Air Conditioners (PTAC)  02  03  04  Heati  Size Category (Btu/h)  (Btu/h)  (*F)  Rating Condition (*F)	O2 03 04 05  Heating Mode  Size Category (Btu/h) Rating Condition (°F) Efficiency Unit Required per Tables 110.2 / Title 20	(other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTAC) and	(other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))  02 03 04 05 06 07  Heating Mode  Size Category (Btu/h) Rating Condition (°F) Efficiency Unit Tables 110.2 / Title 20	(other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))  02 03 04 05 06 07 08  Heating Mode  Size Category (Btu/h)  Rating Condition (°F)  Efficiency Unit Efficiency Required per Tables 110.2 / 1title 20  Title 20

Registration Number: Registration Date/Time: Registration Provider: Energysoft

Report Version: 2019.0.001

Schema Version: rev 20190401

Report Generated: 2020-03-25 21:54:53

STATE OF CALIFORNIA **Mechanical Systems** CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANC NRCC-MCH-E (Page 6 of 9) Project Name: Viking ES Kitchen Report Page: 4251 N Winery Ave Date Prepare

K. TERMINAL BOX CONTROLS This section does not apply to this project. L. DISTRIBUTION (DUCTWORK and PIPING) This section does not apply to this project. M. COOLING TOWERS This section does not apply to this project. N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

ections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at ttps://www.energy.ca.gov/title24/2019standards/2019\_compliance\_documents/Nonresidential\_Documents/NRCI/

Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.0.001 Report Generated: 2020-03-25 21:54:53

STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-MCH-E (Page 9 of 9) Project Name: 4251 N Winery Ave Date Prepared: **Project Address:** 

Schema Version: rev 20190401

OCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. achary Mueller 901 Via Piemonte Suite 400 ntario CA 91764 RESPONSIBLE PERSON'S DECLARATION STATEMENT ertify the following under penalty of perjury, under the laws of the State of California: The information provided on this Certificate of Compliance is true and correct. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requiren The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable Eric DeSplinter 2020-03-25 901 Via Piemonte

Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.0.001 Report Generated: 2020-03-25 21:54:53 Schema Version: rev 20190401

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VIKING E.S. KITCHEN HVAC ADDITION 4251 N WINERY AVE,



FRESNO, CA 93726

91764



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REVISIONS

SHEET INFORMATION **BID SET** 10/20/2020 19000643.00 Job Number Approved SHEET TITLE TITLE 24

SHEET NUMBER

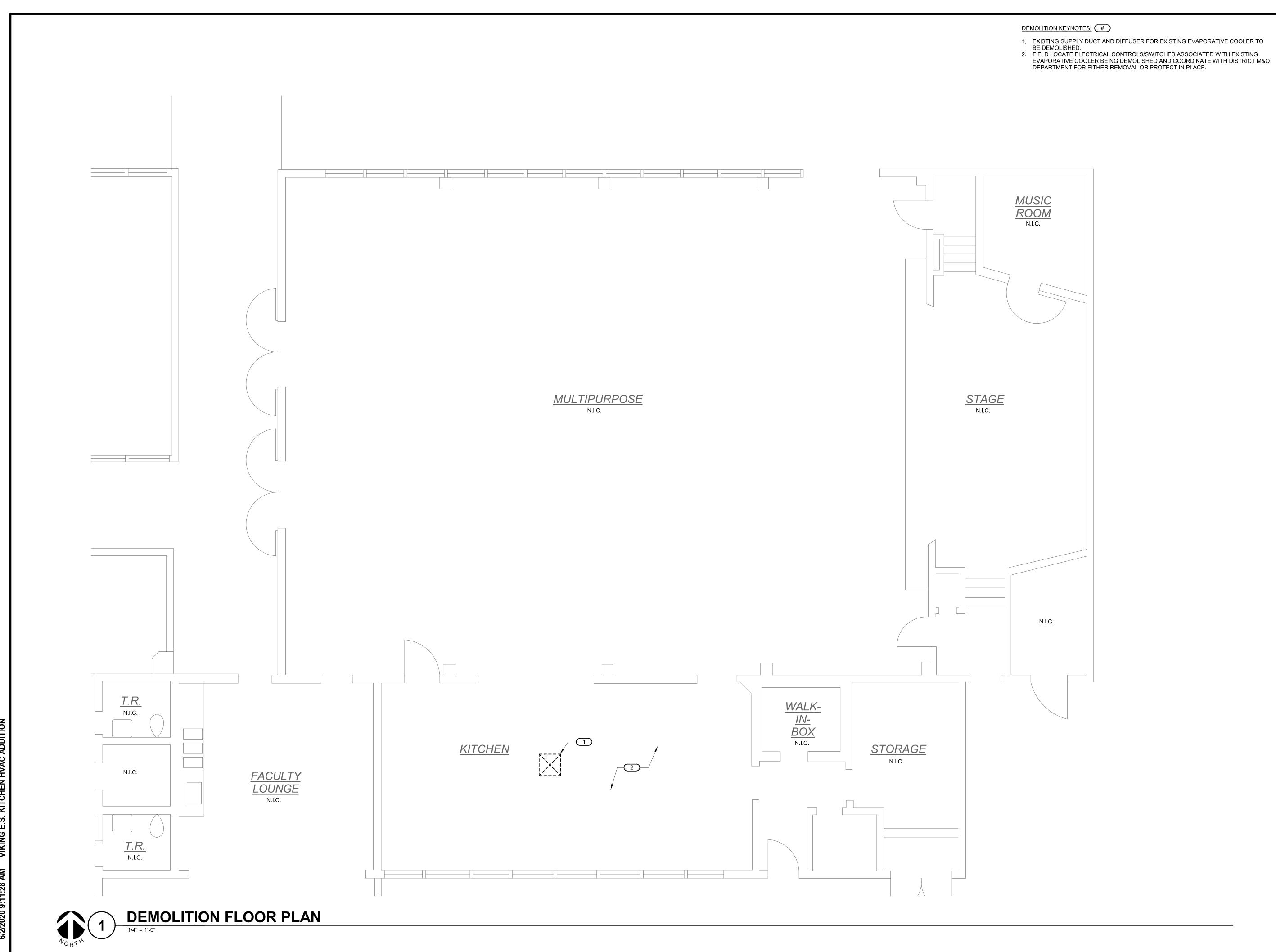
Registration Number:

form to 'Yes".

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

 NRCA-MCH-16-A Supply Air Temperature Reset Controls NRCA-MCH-17-A Condenser Water Temperature Reset Controls NRCA-MCH-18-A Energy Management Control Systems

STATE OF CALIFORNIA



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# VIKING E.S. KITCHEN HVAC ADDITION

4251 N WINERY AVE, FRESNO, CA 93726



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SHEET INFORMATION

**DEMOLITION FLOOR PLAN** 

1/4" = 1'-0"

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# VIKING E.S. KITCHEN **HVAC ADDITION**

4251 N WINERY AVE, FRESNO, CA 93726



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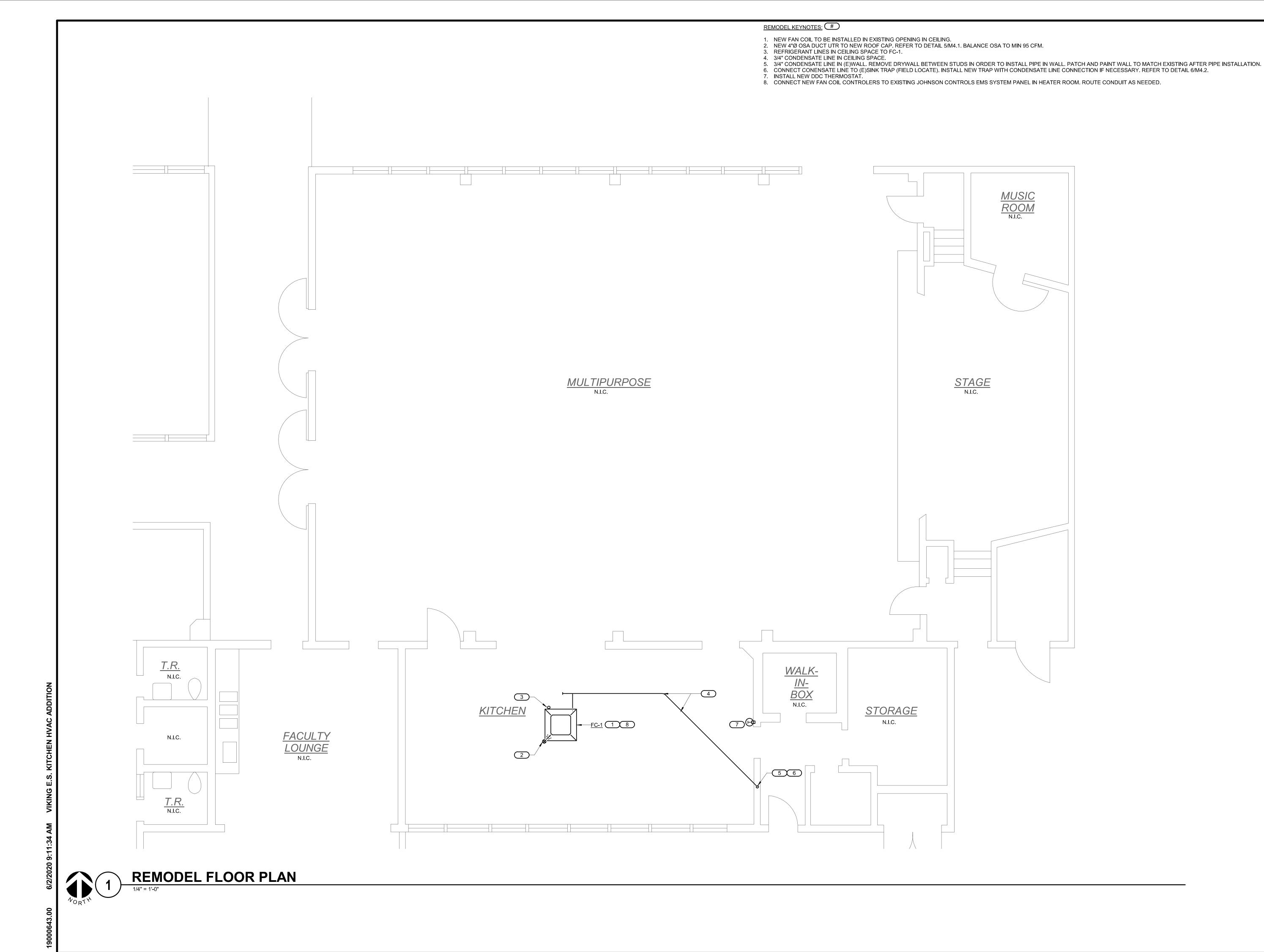


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SHEET INFORMATION 10/20/2020

> SHEET TITLE **DEMOLITION ROOF PLAN**

1/4" = 1'-0"



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 02-118209 INC:

REVIEWED FOR

SS FLS ACS 
DATE: 06/04/2020



# VIKING E.S. KITCHEN HVAC ADDITION

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1 2

No. Date Revision / Issue

 Issue
 BID SET

 Date
 10/20/2020

 Job Number
 19000643.00

 Drawn
 ZM

 Checked
 JM

SHEET TITLE REMODEL FLOOR PLAN

SCALE
Scale: 1/4" = 1'-0"

SHEET NUMBER

Bid No. 21-43, Viking and Vinland Elementary schools and Cooper Middle School Kitchen HVAC Additions

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 02-118209 INC:

REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌



# VIKING E.S. KITCHEN **HVAC ADDITION**

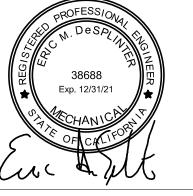
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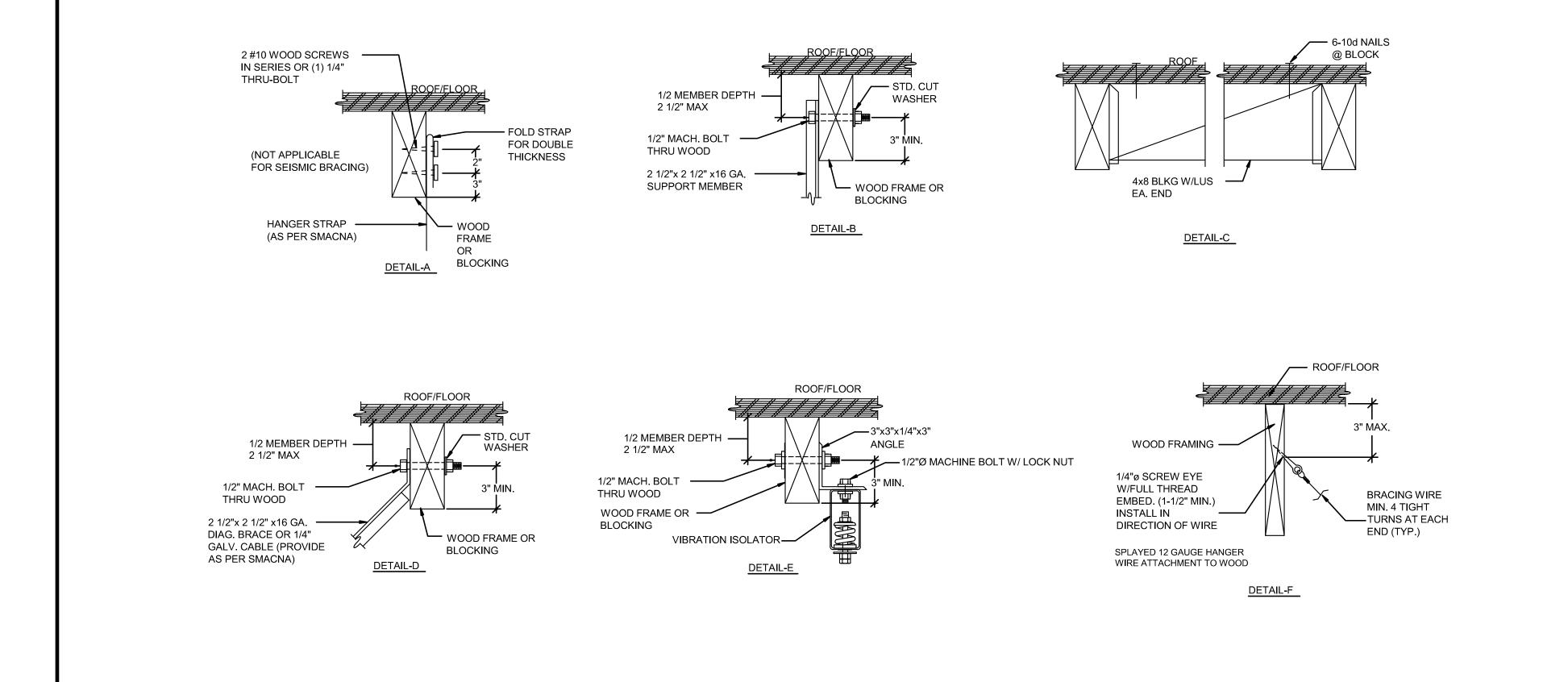
SHEET INFORMATION

SHEET TITLE REMODEL ROOF PLAN

1/4" = 1'-0"

SHEET NUMBER

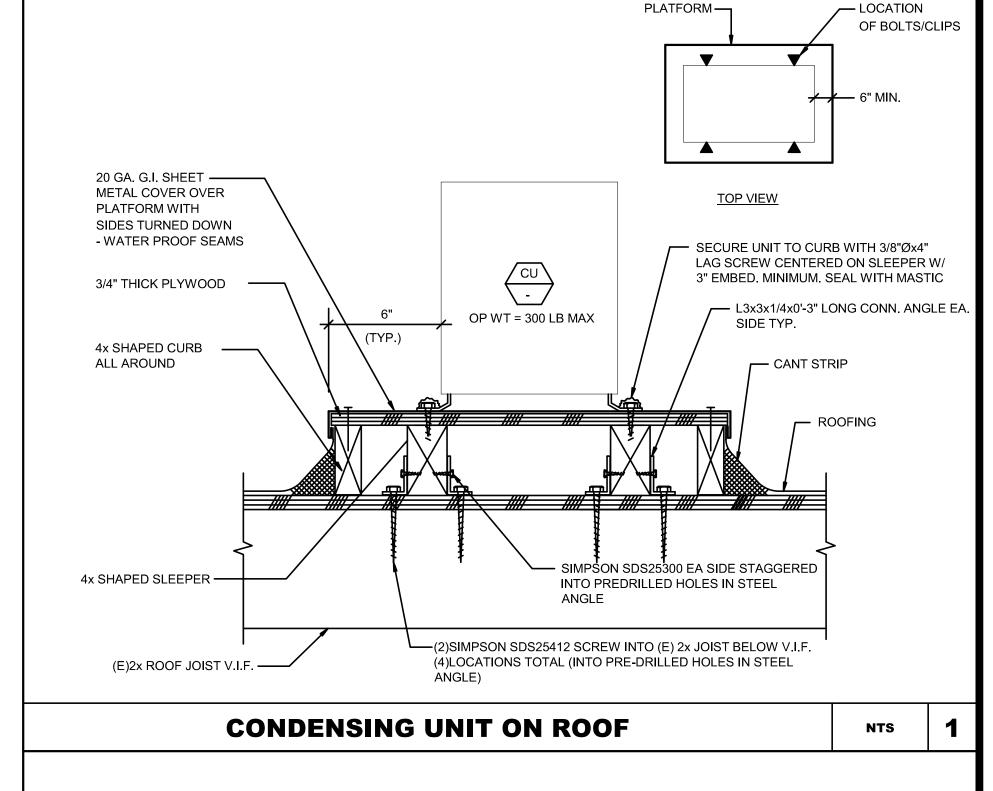
Bid No. 21-43, Viking and Vinland Elementary schools and Cooper Middle School Kitchen HVAC Additions

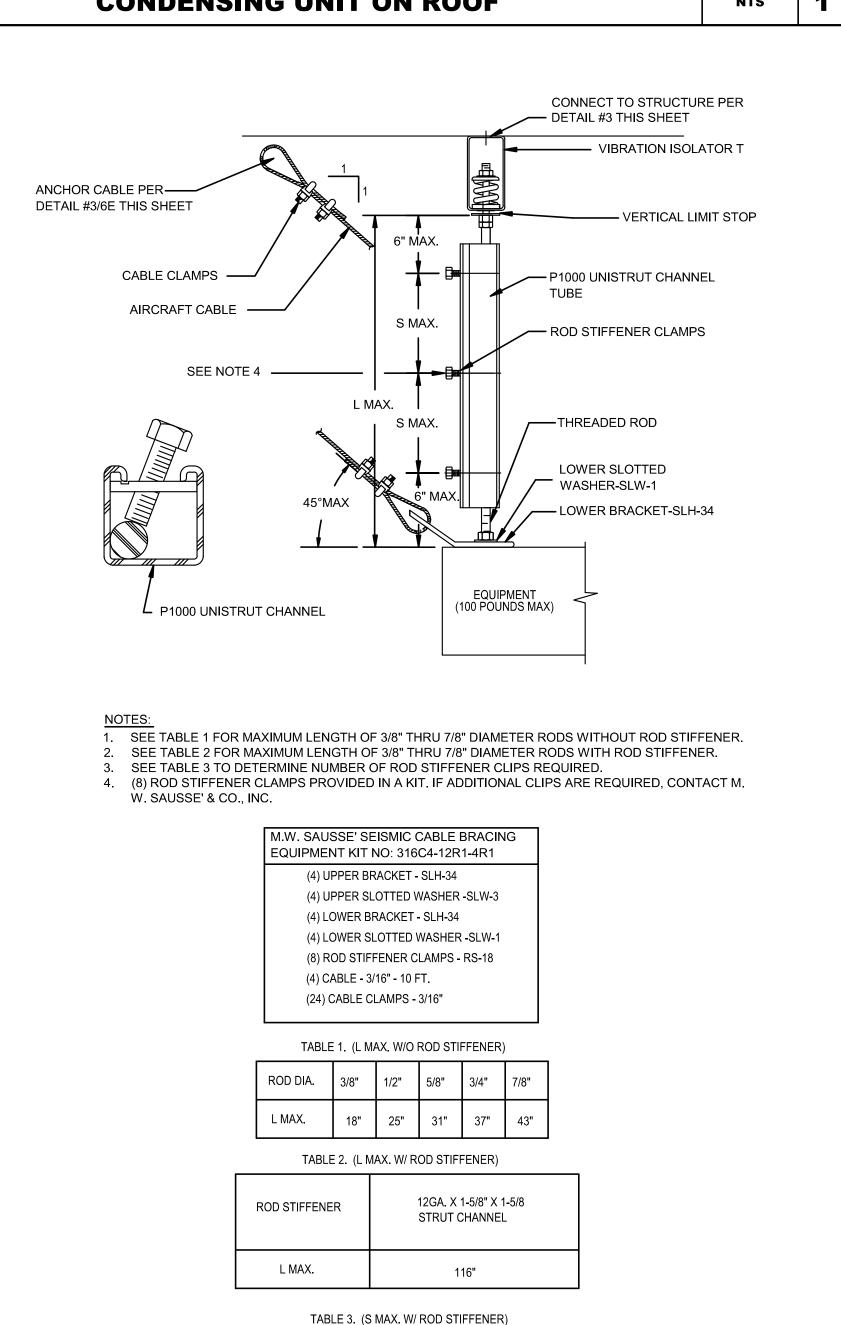


DUCT, PIPE, AND EQUIPMENT SUPPORT CONNECTION TO STRUCTURE

5

NTS









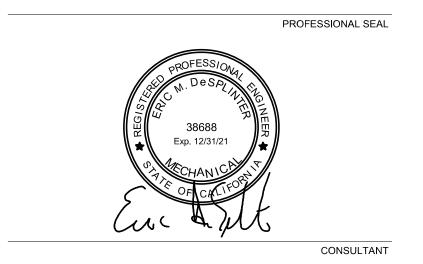
# VIKING E.S. KITCHEN HVAC ADDITION

4251 N WINERY AVE, FRESNO, CA 93726



901 VIA PIEMONTE SUITE 400 ONTARIO, CA

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 Issue
 BID SET

 Date
 10/20/2020

 Job Number
 19000643.00

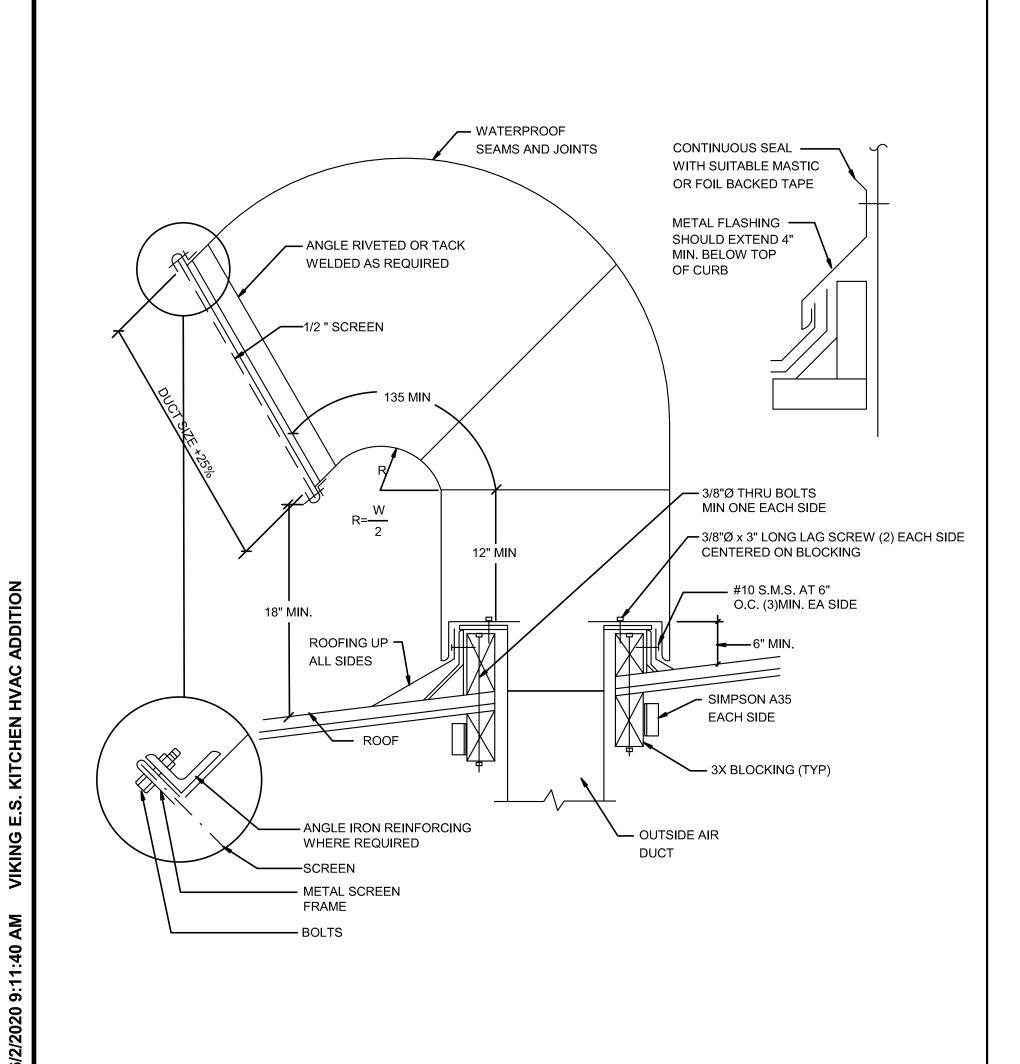
 Drawn
 ZM

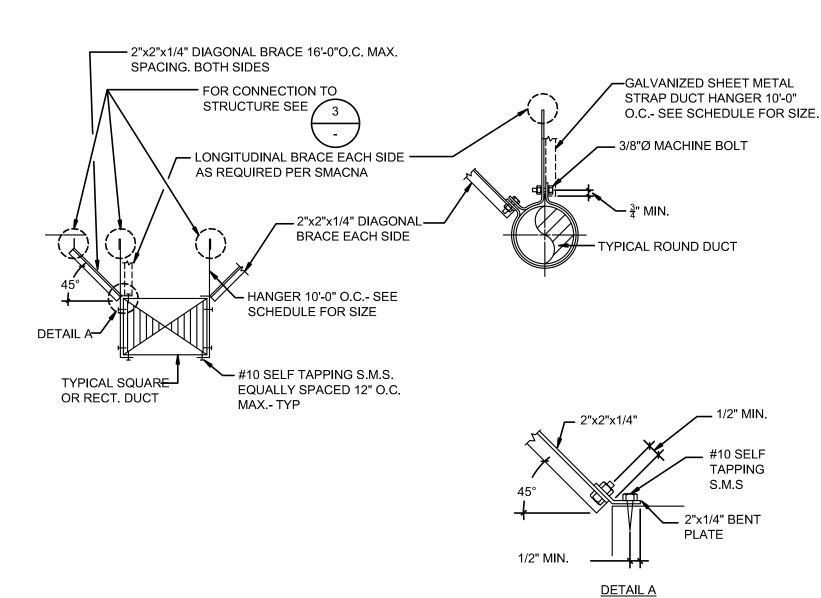
 Checked
 JM

 Approved
 ED

 SHEET TITLE

SHEET NUMBER





NTS

NTS

RECT	ANGULAR DU	СТ		ROUND DUCT	-
MAX. OF DUCT PERIMETER/IN.	STRAP	MAX. LOAD EACH HANGER/LBS.	DIAMETER /INCHES	STRAP	MAX. LOAD EACH HANGER/LBS.
P/2 =72	1"X 20 GA.	20	UP TO 20"	1"X 20 GA.	20
P/2 =96	1"X 18 GA.	30	21" TO 36"	1"X 18 GA.	30

## NOTE:

NO BRACING REQUIRED IF DUCT IS SUSPENDED 12 INCHES OR LESS IN LENGTH.

**DUCT SUPPORT DETAIL** 

- 2. FOR TRANSVERSE AND LONGITUDINAL BRACING FOLLOW "SMACNA" GUIDELINES FOR
- SEISMIC HAZARD LEVEL "A".

**GOOSENECK INSTALLATION** 

**DETAILS** 

REVISIONS

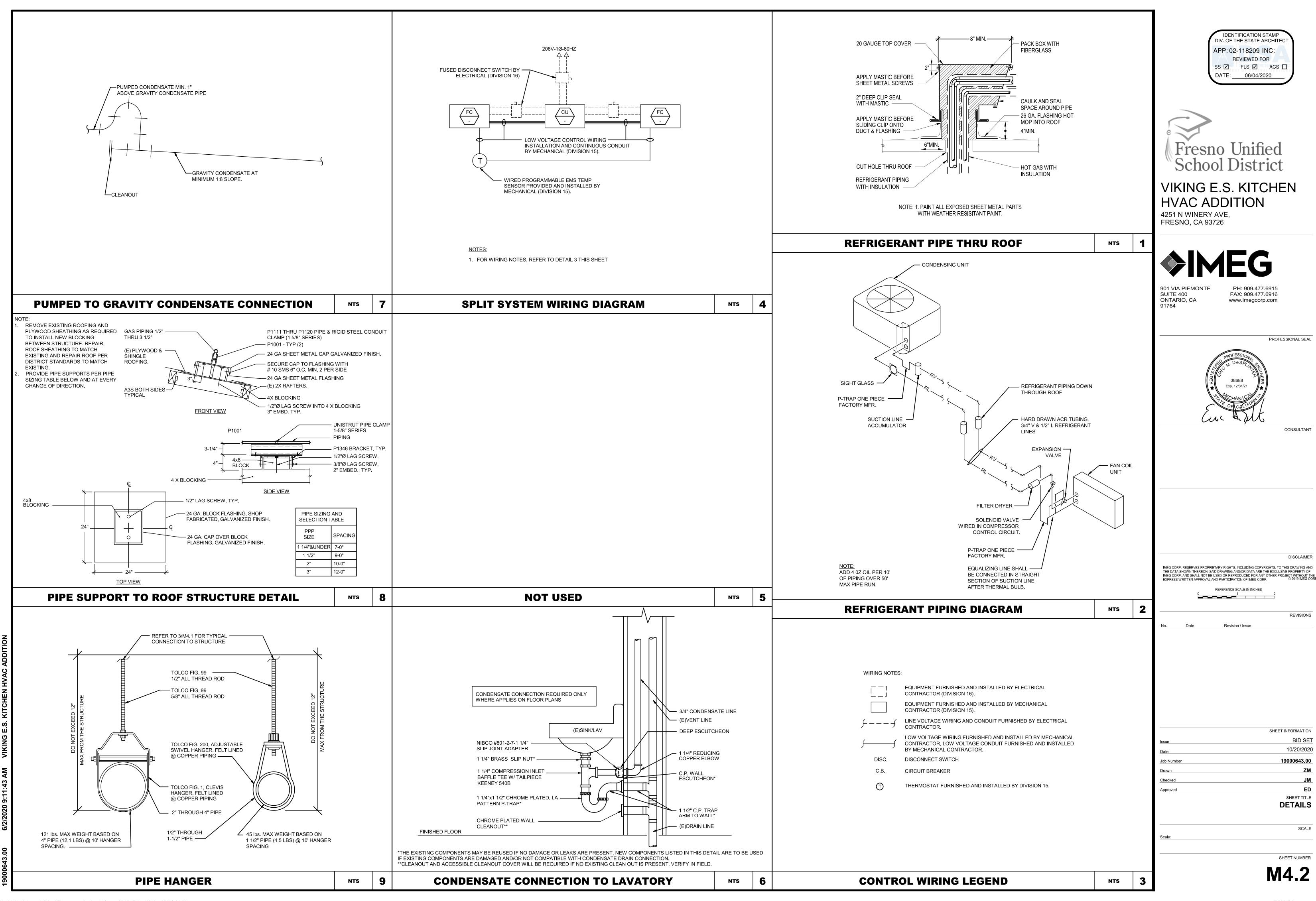
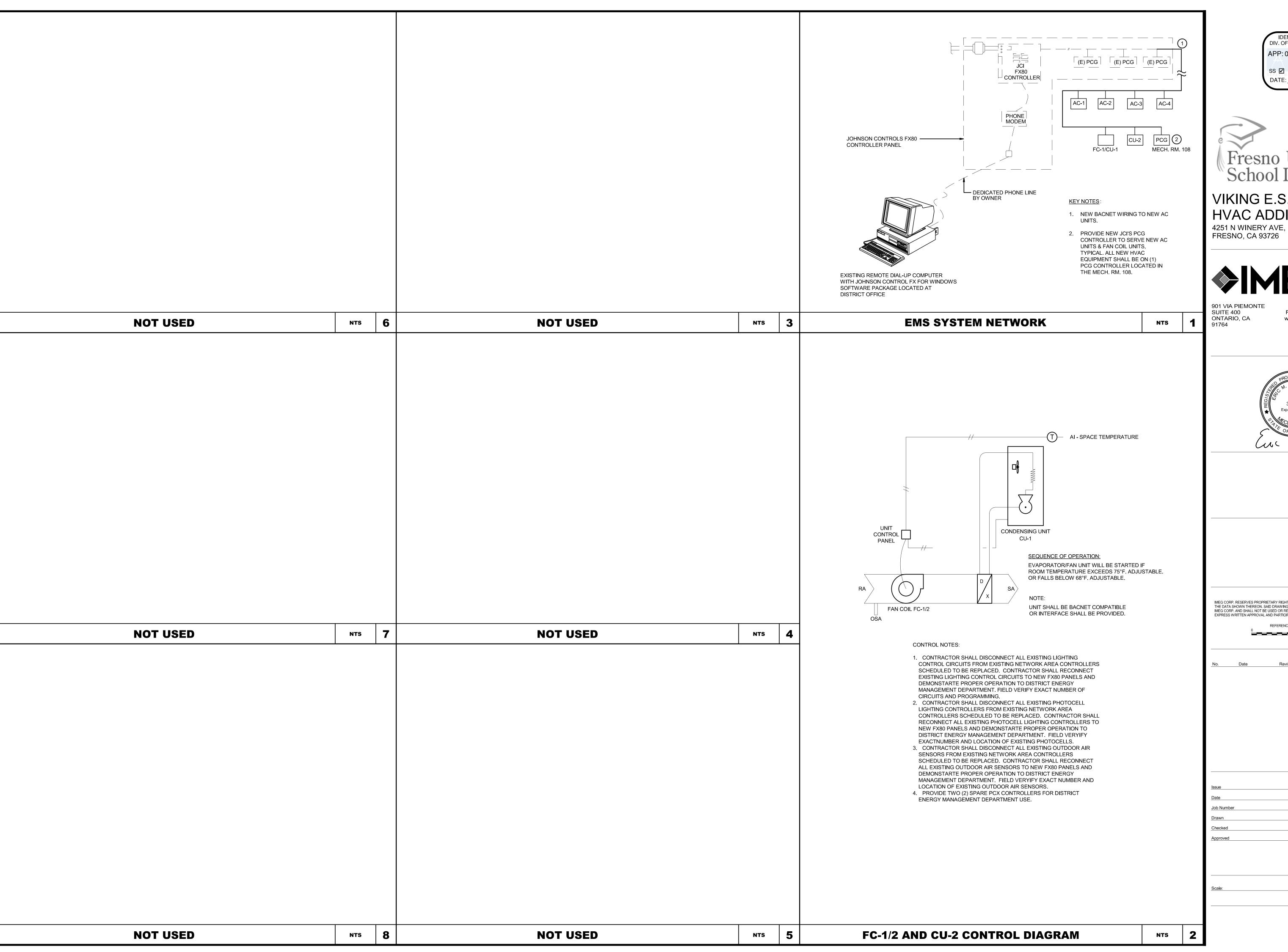


EXHIBIT A



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## VIKING E.S. KITCHEN **HVAC ADDITION**

FRESNO, CA 93726



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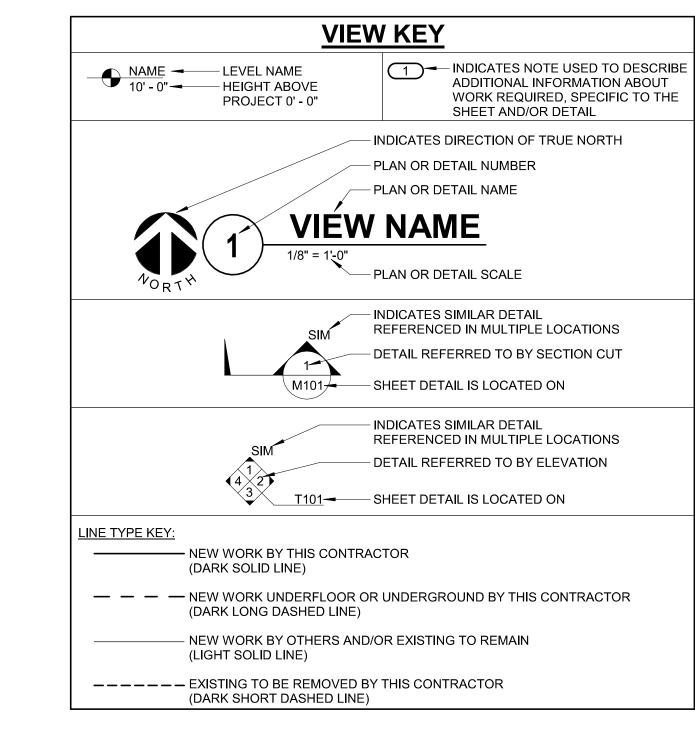
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SHEET INFORMATION BID SET 10/20/2020 19000643.00

SHEET TITLE CONTROLS



## **APPLICABLE CODES**

- 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE
- OF REGULATIONS (CCR) TITLE 24, PART 1 2019 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2 (2018 INTERNATIONAL BUILDING CODE (IBC) W/CALIFORNIA
- AMENDMENTS) 2019 CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS
- (CCR) TITLE 24, PART 3 (2017 NATIONAL ELECTRICAL CODE (NEC) W/CALIFORNIA **AMENDMENTS**)
- 2019 CALIFORNIA MECHANICAL CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4 (2018 UNIFORM MECHANICAL CODE (UMC) W/CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA PLUMBING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5 (2018 UNIFORM PLUMBING CODE (UPC) W/CALIFORNIA AMENDMENTS) 2019 CALIFORNIA ENERGY EFFICIENCY STANDARDS CODE CALIFORNIA CODE OF
- REGULATIONS (CCR) TITLE 24, PART 6 2019 CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9 (2018 INTERNATIONAL FIRE CODE (IFC) W/CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA REFERENCED STANDARDS CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12 AMERICANS WITH DISABILITIES ACT (ADA) TITLE II - ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAAG) 1990 STATE FIRE MARSHAL REGULATIONS AND
- AMENDMENTS TO-DATE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24. CALIFORNIA STATE ACCESSIBILITY STANDARDS CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19

## PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

(CA AMANDED) 2016 EDITION NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS

(CA AMENDED) 2016 EDITION NFPA 17 - STANDARD FOR THE INSTALLATION OF DRY CHEMICAL EXTINGUISHING SYSTEMS

2017 EDITION NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS

2017 EDITION NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION

2016 EDITION NFPA 22 - STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION

NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMANDED) 2016 EDITION NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE

(CA AMANDED) 2016 EDITION

FINISHED FLOOR.

NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES 2016 EDITION

NFPA 92 - STANDARD FOR SMOKE CONTROL SYSTEMS 2018 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

FINISHED FLOOR.

ADA GUIDELINES - FRONT ACCESS

### **ELECTRICAL INSTALLATION NOTES:**

- 1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAIL ON THIS PAGE FOR ADDITIONAL INFORMATION.
- 2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- 3. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO [27 05 03 AND 28 05 03] [DIVISION 7] [26 05 03] FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- 5. CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
- 6. ELECTRICAL INDENTIFICATION. REFER TO SPECIFICATION SECTION 16195 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

## **ELECTRICAL RENOVATION NOTES:**

- THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES. INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS.
- 1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- 2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING! [EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH HIS/HER WORK.]
- 3. THE **GENERAL CONTRACTOR** IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE **GENERAL CONTRACTOR** OF AFFECTED AREAS PRIOR TO
- BIDDING. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

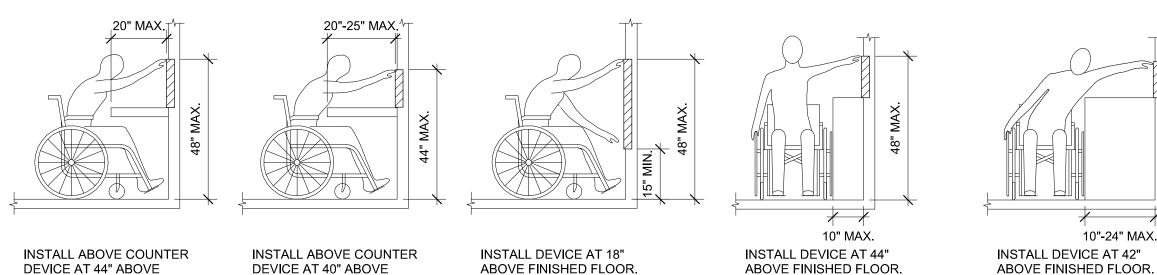
### **ELECTRICAL SYMBOL LIST** SYMBOL: **DESCRIPTION:** GFI DUPLEX RECEPTACLE, 20A, 115V **FUSED DISCONNECT**

	ELECTRICAL ABBREVIATION KEY							
ABBR:	DESCRIPTION:							
AFF	ABOVE FINISHED FLOOR							
С	CONDUIT							
GFI	GROUND FAULT INTERRUPTER							
N.C.	NORMALLY CLOSED							
NIC	NOT IN CONTRACT							
N.O.	NORMALLY OPEN							
SV	SOLENOID VALVE							
TYP	TYPICAL							
UNO	UNLESS NOTED OTHERWISE							
WP	WEATHERPROOF							

## **ELECTRICAL SHEET INDEX**

ADA GUIDELINES - SIDE ACCESS

GENERAL NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST E1.1 OVERALL SITE PLAN DEMOLITION POWER PLAN E2.2 DEMOLITION ROOF PLAN REMODEL POWER PLAN REMODEL ROOF PLAN E4.1 DETAILS



E0.1

E2.1

E3.1

E3.2

Total: 7

**ADA STANDARDS FOR ACCESSIBLE DESIGN** 

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## VIKING E.S. KITCHEN HVAC ADDITION

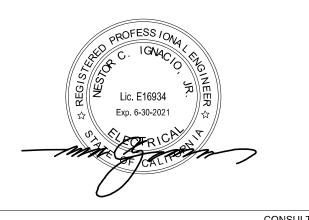
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REVISIONS

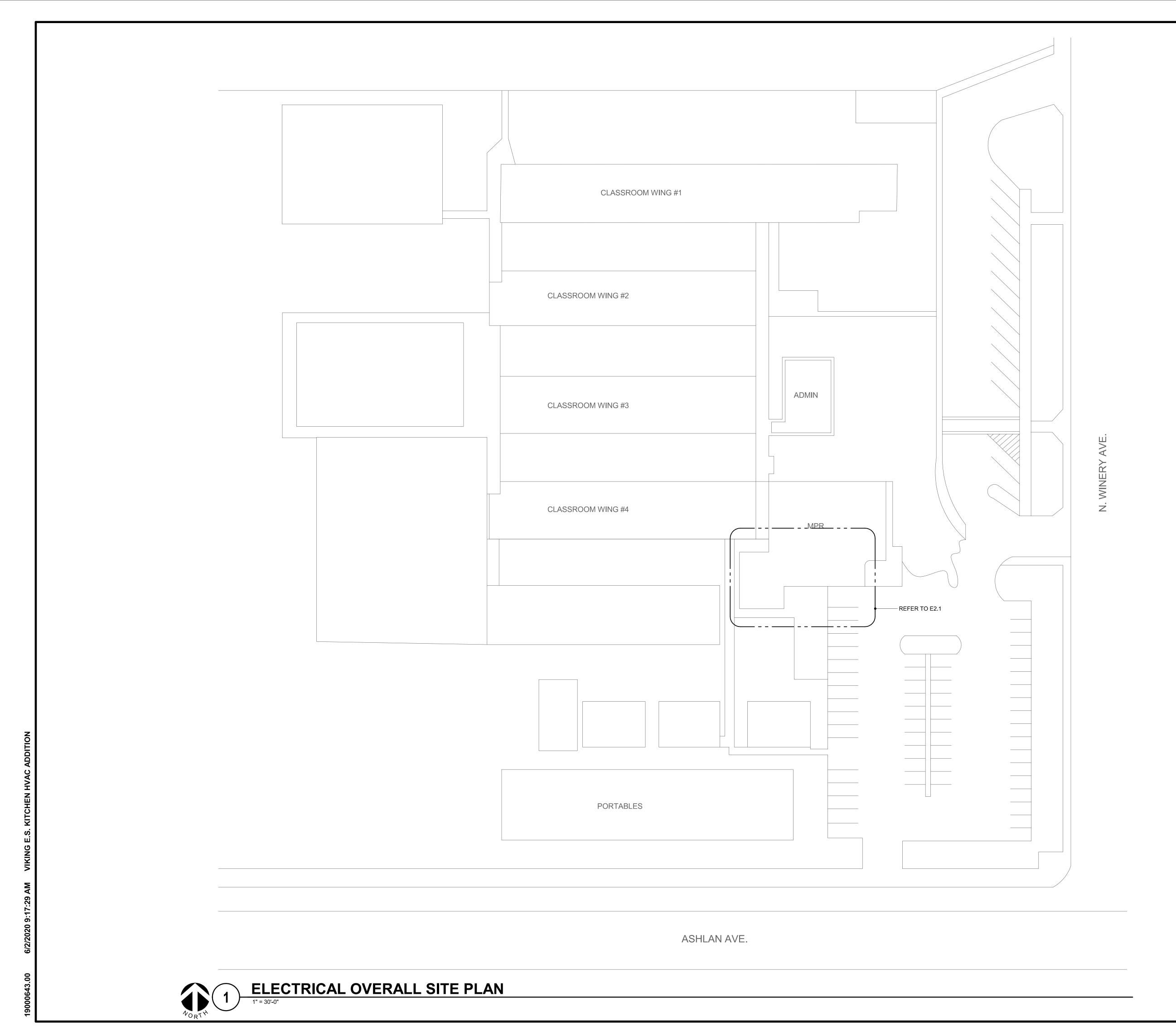
EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. REFERENCE SCALE IN INCHES

SHEET INFORMATION **BID SET** 10/20/2020 19000643.00 Job Number

SHEET TITLE GENERAL NOTES, LEGEND, **ABBREVIATIONS AND DRAWING LIST** 

SHEET NUMBER

As indicated



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APP: 02-118209 INC:

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SS FLS ACS 
DATE: 06/04/2020

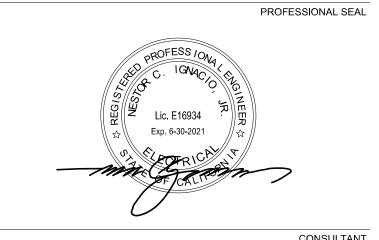


# VIKING E.S. KITCHEN HVAC ADDITION

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10/20/2020

Number 19000643.00

wn Author

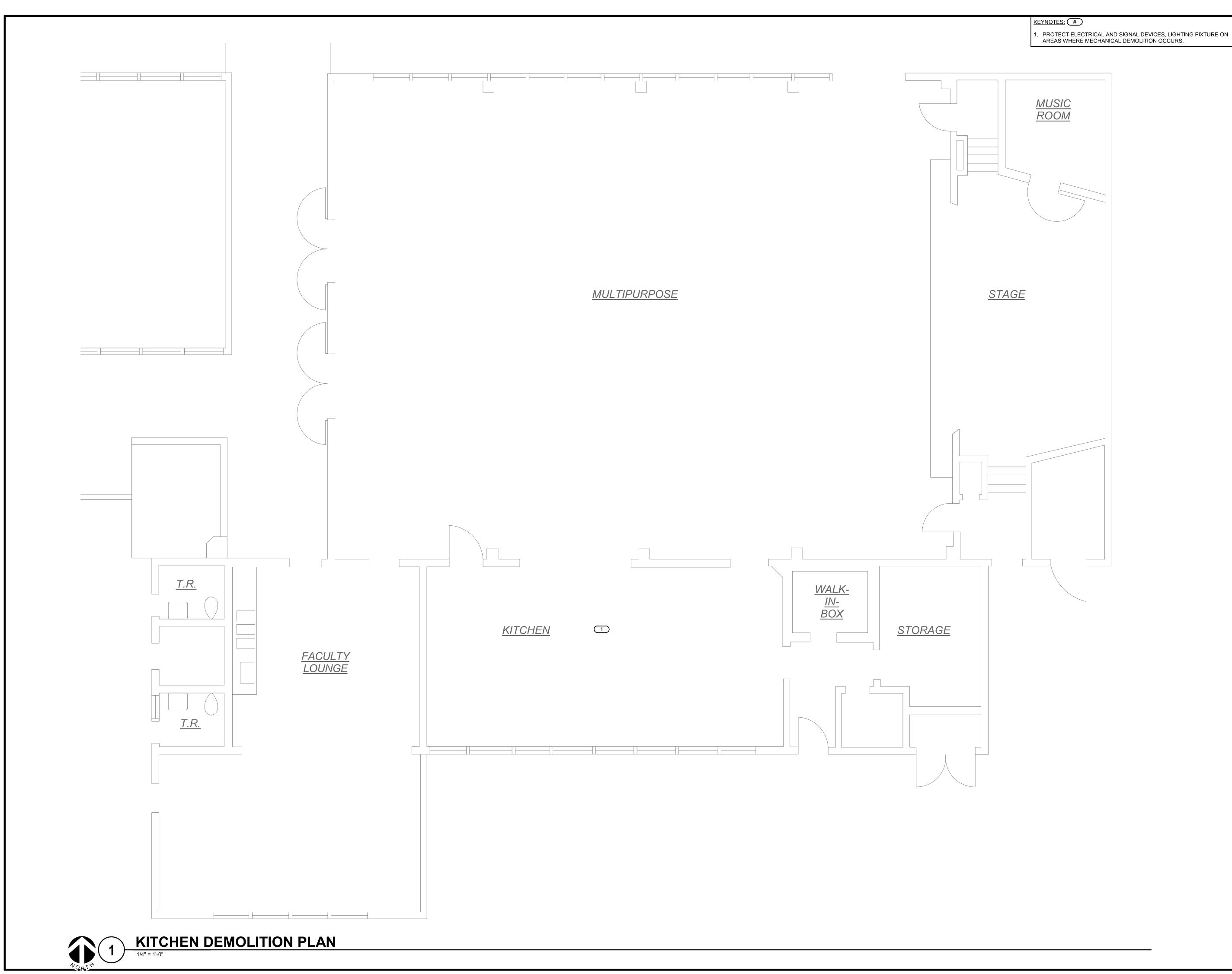
ecked Checker

proved Approver

SHEET TITLE

OVERALL SITE PLAN

Scale: Scale: 1" = 30'-0"



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SS FLS ACS DATE: 06/04/2020



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Number 19000643.00

Num Author

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SHEET TITLE

**DEMOLITION POWER PLAN** 

Scale: 1/4" = 1'-0"

E2.1

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REVIEWED FOR SS FLS ACS DATE: 06/04/2020



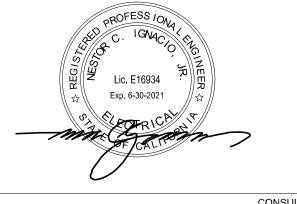
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No. Date Revision / Issue

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10/20/2020

Number 19000643.00

Author

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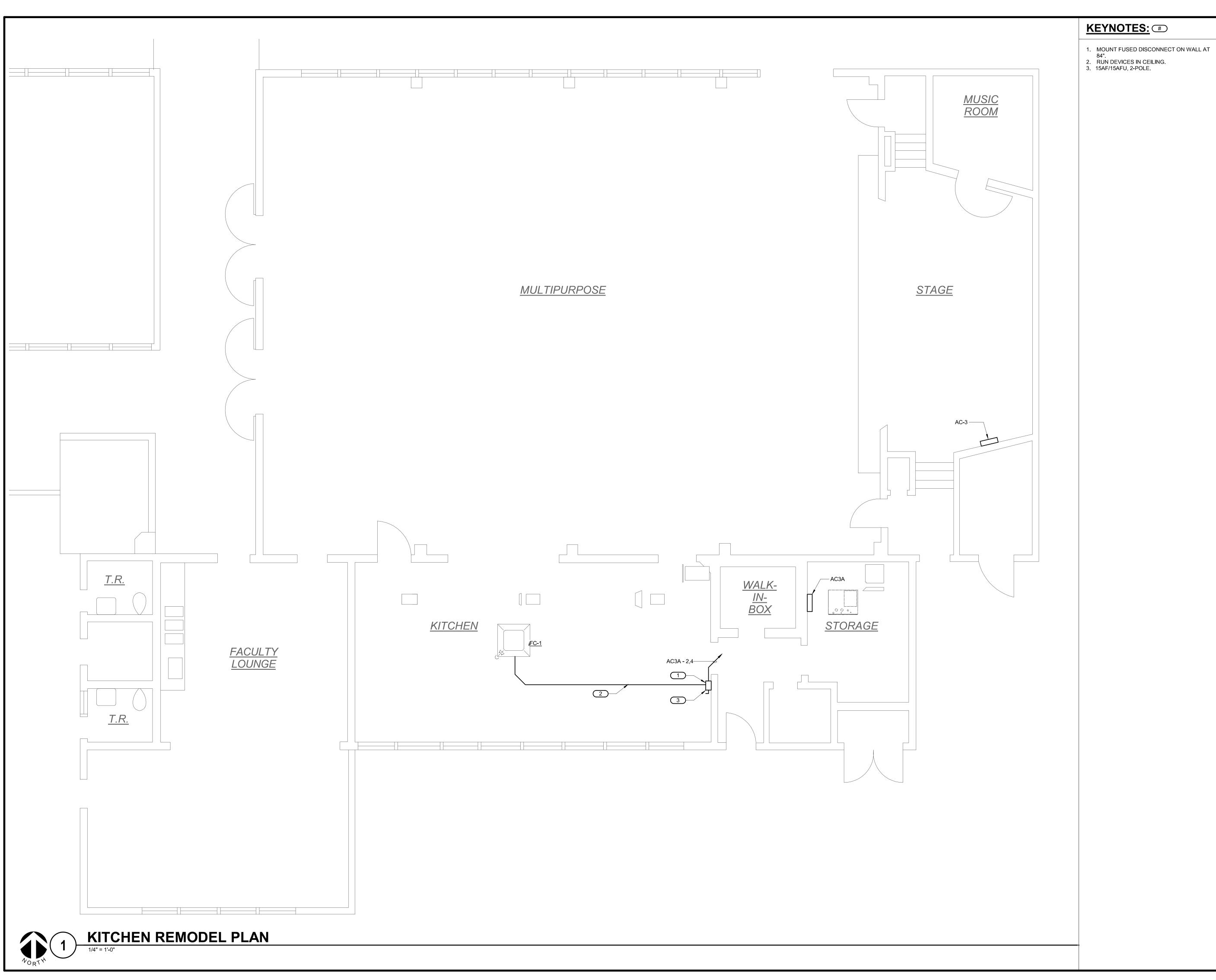
DEMOLITION ROOF PLAN

SCALE

Scale: 1/4" = 1'-0"

E2.2

Bid No. 21-43, Viking and Vinland Elementary schools and Cooper Middle School Kitchen HVAC Additions



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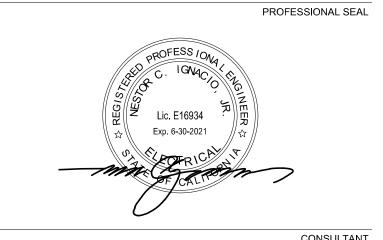


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REMODEL POWER PLAN

SCALE

Scale: 1/4" = 1'-0"

SHEET NUMBER

E3.1

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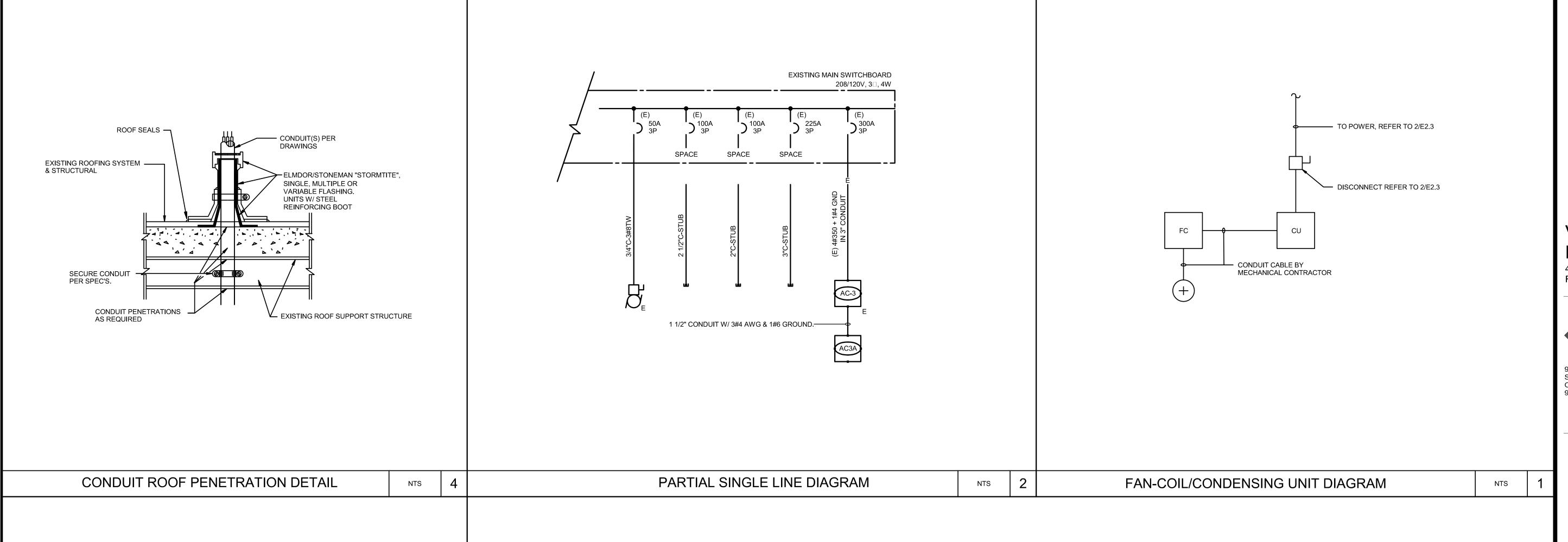
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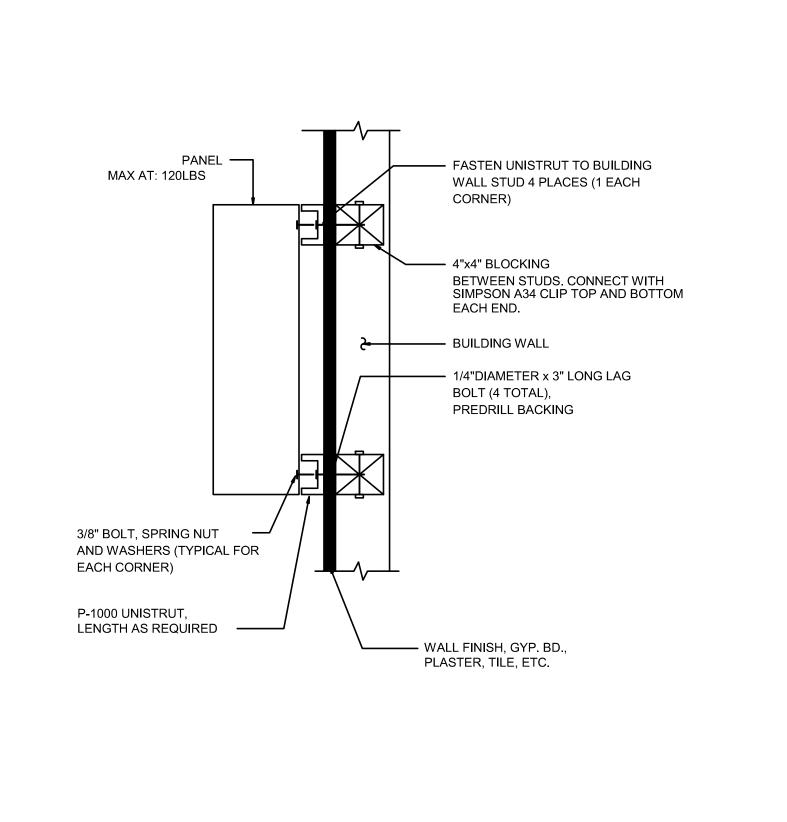
SHEET TITLE
REMODEL ROOF PLAN

SCALE 5cale: 1/4" = 1'-0"

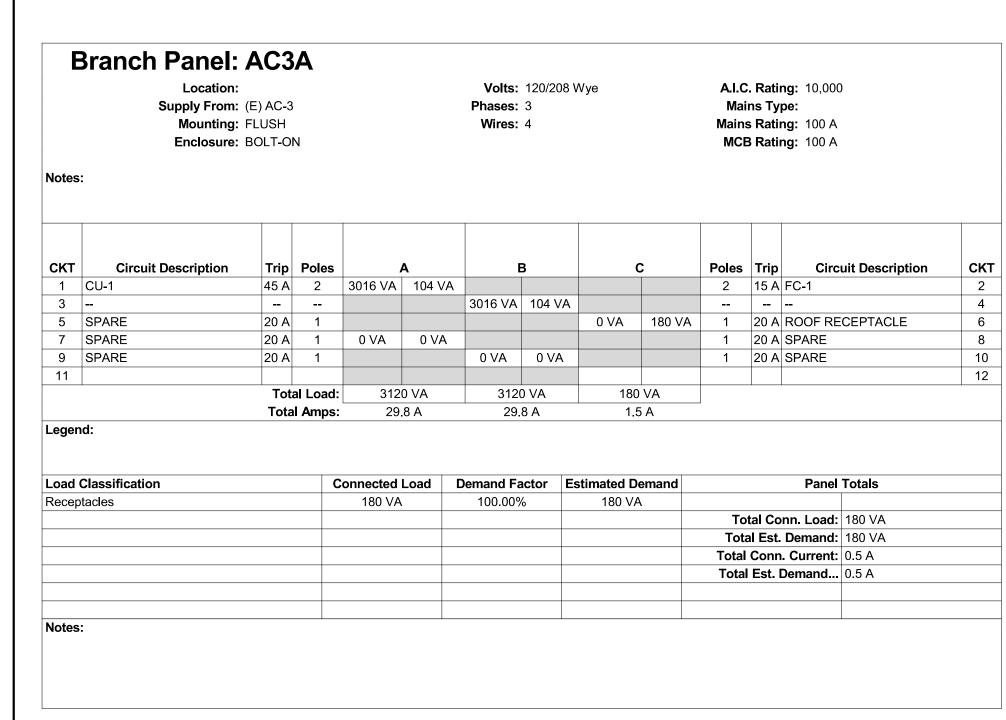
E3.2

1) ELECTRICAL KITCHEN ROOF PLAN





NTS



Branch Panel: (E) AC-3  Location: Supply From: Mounting: SURFACE Enclosure: BOLT-ON					Volts: 120/208 Wye Phases: 3 Wires: 4				A.I.C. Rating: 42,000 Mains Type: Mains Rating: 400 A MCB Rating: 300 A					
CKT	Circuit Description	Trip	Poles		A	E	3		2	Poles	Trip	Circ	uit Description	СКТ
1	(E) HC-3A	60 A	3	5000 VA						3	-		FAN FOR HC-3A	2
3						5000 VA	1400 V	4				·-		4
5								5000 VA	1400 VA		-			6
7	(E) HC-3B	60 A	3	5000 VA	1400 V					3	20 A (	E) EXHA	JS FAN FOR HC-3B	8
9						5000 VA	1400 VA				-			10
11								5000 VA	1400 VA			. <b>-</b>		12
13	(E) CU-1	20 A	2	800 VA	2500 VA					3		E) HC-1		14
15						800 VA	2500 VA		05003/4			-		16
17	CONDENSING PUMP	20 A	1	0400 \ / 4	000.1/4			800 VA	2500 VA			- 'E\\\\D DI	TOEDTA OLE	18
19 21	AC3A	20 A	3	3120 VA	800 VA	3120 VA	500 VA			1		E) WP RE	ECEPTACLE	20 22
23						3120 VA	500 VA	180 VA	500 VA	1		E) LOAD		24
	<del></del>		al Load:	2002	1 20 VA	1972	0 VA	1678		1	20 7 (	L) LOAD		24
Total Amp						168.1 A		139.8 A						
	<b>Classification</b> otacles		C	onnected 180 VA		<b>Demand Fa</b> 100.00%		E <b>stimated De</b> 180 VA		Tota	al Est. I	ın. Load:	Totals 50280 VA 40260 VA 139.6 A	
Notes	<b>3</b> :									Total	Est. D	emand	111.8 A	

PANEL SCHEDULE

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APP: 02-118209 INC:

REVIEWED FOR

SS FLS ACS 
DATE: 06/04/2020



## VIKING E.S. KITCHEN HVAC ADDITION 4251 N WINERY AVE, FRESNO, CA 93726

**♦IMFG** 

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 Date
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 Job Number
 19000643.00

 Drawn
 Author

 Checked
 Checker

 Approved
 Approver

 SHEET TITLE

Scale:

NTS

SHEET NUMBER

E4.1

SURFACE MOUNTED PANEL/CABINET WOOD FRAMING

**DETAILS** 



### APPLICATION FOR SUBMITTAL OF POST-APPROVAL DOCUMENT

This application is for submittal of documents, after the initial approval of the project (post-approval documents), that require Division of the State Architect (DSA) review and approval. This form shall be completed by the Design Professional in General Responsible Charge of the project, in accordance with California Code of Regulations, Title 24, Part 1, Sections 4-317, 4-323 and 4-338 and in compliance with DSA IR A-6: Construction Change Document Submittal and Approval Process.

DSA documents referenced within this form are available on the DSA Forms or DSA Publications webpages.

1. SUBMITTAL TYPE:	(Is this a resubmittal? Yes□ No	o □)								
Deferred Submittal □	Addendum Number:	Revision	n Number:	CCD Nun	nber:	Category A $\square$ or B $\square$				
2. PROJECT INFORMA	ATION:									
School District/Owner:				DSA File Number:						
Project Name/School:			Number:							
3. APPLICANT INFOR	MATION:									
Date Submitted:			Attached Pages? No ☐ Yes ☐ Number of pages?							
Firm Name:			Contact Name:							
Work Email:			Work Phone:							
Firm Address:			City:		State:	Zip Code:				
4. REASON FOR SUBI	MITTAL: (Check applicable box	res)								
☐ For revision or adden	dum prior to construction.			☐ For a project currently under construction.						
	□ For a project that has a form DSA 301-N: Notification of Requirement for Certification, DSA 301-P: Posted Notification of Requirement for Certification or a 90-Day Letter issued.									
☐ To obtain DSA approv	al of an existing uncertified build	ing or building	S.							
☐ For Category B CCD t	his is: □ a voluntary submittal, □	l a DSA require	ed submittal (attac	h DSA notice requi	ring submission).					
5. DESIGN PROFESSION	ONAL IN GENERAL RESPONSI	IBLE CHARGE	Ε:							
Name of the Design Prof	essional In General Responsible	Charge:								
Professional License Nu	mber:		Discipline:	Discipline:						
Design Professional in General Responsible Charge Statement: The attached post-approval documents have been examined by me for design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications. They are acceptable for incorporation into the construction of the project.  Signature:  DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE										
6. CONFIRMATION, DE	ESCRIPTION AND LISTING OF	DOCUMENTS	3:							
For addenda, revisions, or CCDs: CHECK THIS BOX $\square$ to confirm that <i>all</i> post-approval documents have been stamped and signed by the Responsible Design Professional listed on form <i>DSA 1: Application for Approval of Plans and Specifications</i> for this project. (For <i>Deferred Submittals</i> , refer to <i>IR A-18: Use of Construction Documents Prepared by Other Professionals</i> , and <i>IR A-19: Design Professional's Signature and Seal (Stamp) on Construction Documents</i> , when applicable, for signature and seal requirements.)										
Provide a brief description of construction scope for this post-approval document (attach additional sheets if needed):										
List of DSA-approved drawings affected by this post-approval document:										
DSA USE ONLY										
DDU	44/05/00			Returned		SA STAMP				
SSSRBHDa	ate <mark>11/05/20</mark> XApproved □Di	isapproved □No	ot Required D	ate:						
Comments:			B	y:		PPROVED HE STATE ARCHITECT				
FLSDa	ate □Approved □Di	isapproved 🔼No	ot Required			-118209 INC: eviewed for FLS□ ACS□				
ACSDa	ate □Approved □Di	isapproved <mark>X</mark> No	ot Required		DATE:_	11/05/2020				





#### **ADDENDUM #1**

**To:** DSA, SACRAMENTO **A#:** 02-118209

From: IMEG Corp. FILE #: 10-48

**Project** FUSD Viking ES Kitchen

**IMEG #:** 19000643.00

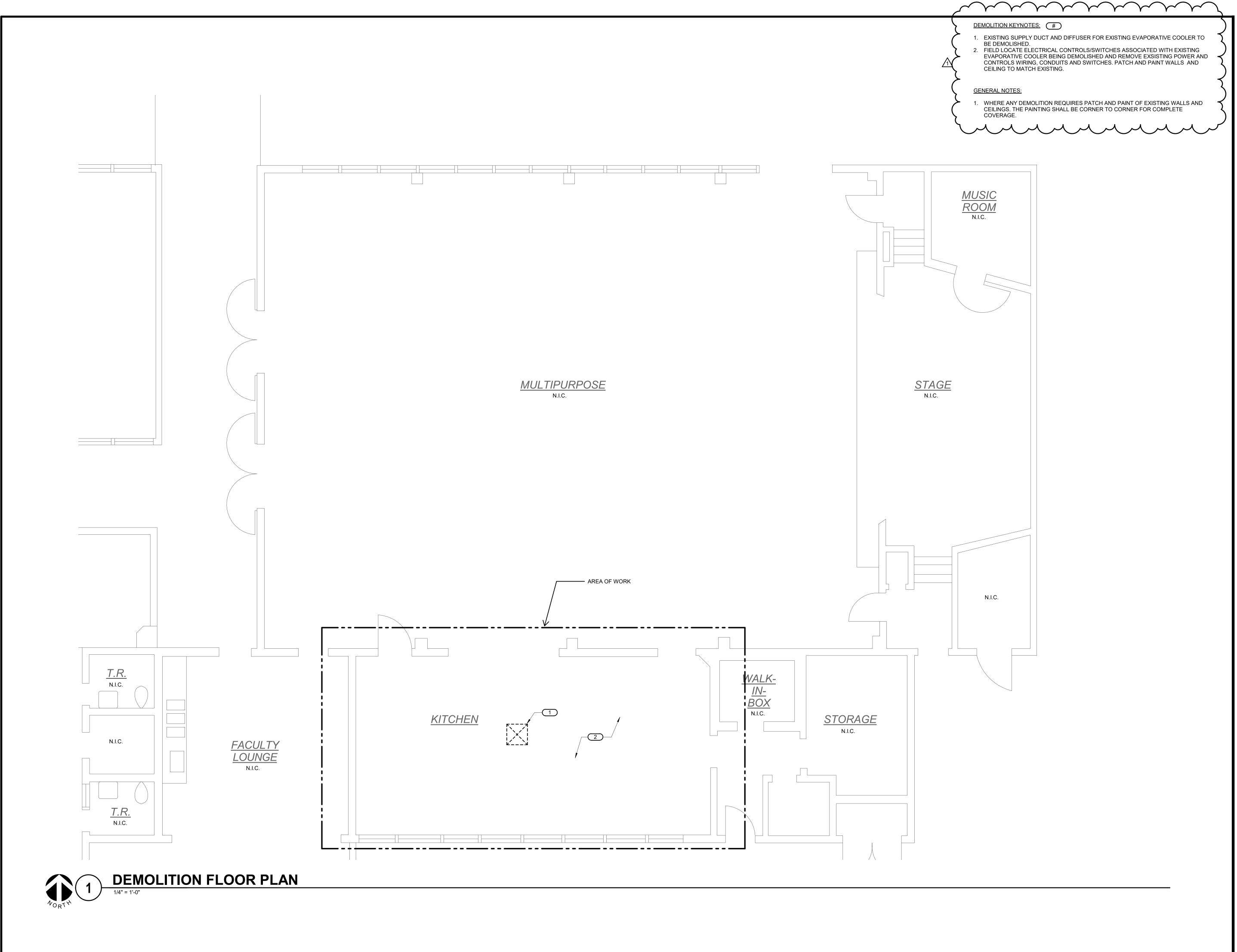
Date: October 20, 2020

Fresno Unified School District, Viking Elementary School Kitchen HVAC Addition (A#02-118209).

Please see the following addendum for Mechanical systems. All revisions to drawings are indicated by cloud and delta No.1

#### **MECHANICAL**

- 1.1 SHEET M2.1
  - A. Added patch and paint general note.
  - B. Modified keynote 2 stating to remove existing power and controls wiring.
- 1.2 SHEET M2.2
  - A. Modified demolition keynotes.
- 1.3 SHEET M3.1
  - A. Modified keynotes.
  - B. Added general note.
- 1.4 SHEET M3.2
  - A. Added keynote 6.
- 1.5 SHEET M4.1
  - A. Modified detail 1 "Condensing Unit On Roof" to FUSD approved detail.
- 1.6 SHEET M4.2
  - A. Relocated detail 3 to Sheet M5.1.
  - B. Modified detail 4. Added FUSD approved detail "Sprayed Polyurethane Foam Equipment Platform."
  - C. Modified detail 6 "Condensate Connection To Lavatory."
  - D. Modified detail 8 "Sprayed Polyurethane Foam, Conduit Support" to FUSD approved detail.
- 1.7 SHEET M5.1
  - A. Relocated "Split System Wiring Diagram" from Sheet M4.2 Detail 4 to Sheet M5.1 Detail 3.
  - B. Relocated "Control Wiring Legend" from Sheet M4.2 Detail 3 to Sheet M5.1 Detail 4.



APPROVED
DIV. OF THE STATE ARCHITECT
APP: 02-118209 INC:
REVIEWED FOR
SS FLS ACS
DATE: 11/05/2020



# VIKING E.S. KITCHEN HVAC ADDITION

4251 N WINERY AVE, FRESNO, CA 93726



901 VIA PIEMONTE SUITE 400 ONTARIO, CA 91764 PH: 909.477.6915 FAX: 909.477.6916 www.imegcorp.com

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 Date
 Revision / Issue

 10/19/2020
 REVISION 1

SHEET INFORMATION

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10.20.2020
19000643.00

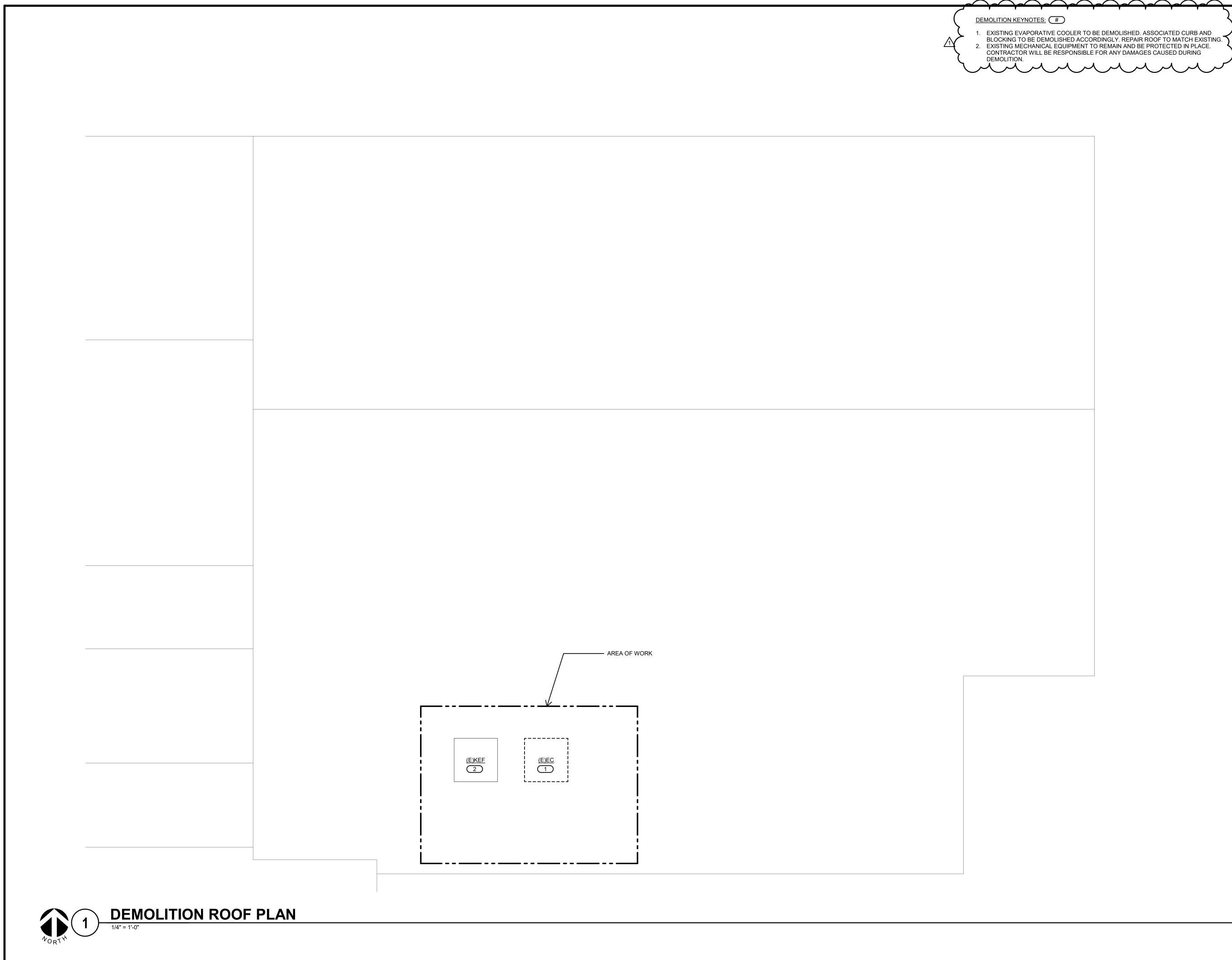
Drawn Checked

SHEET TITLE

DEMOLITION FLOOR PLAN

SCALE 1/4" = 1'-0"

M2<sub>-</sub>1







# VIKING E.S. KITCHEN HVAC ADDITION

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SHEET INFORMATION

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10.20.2020

 Date
 10.20

 Job Number
 190006

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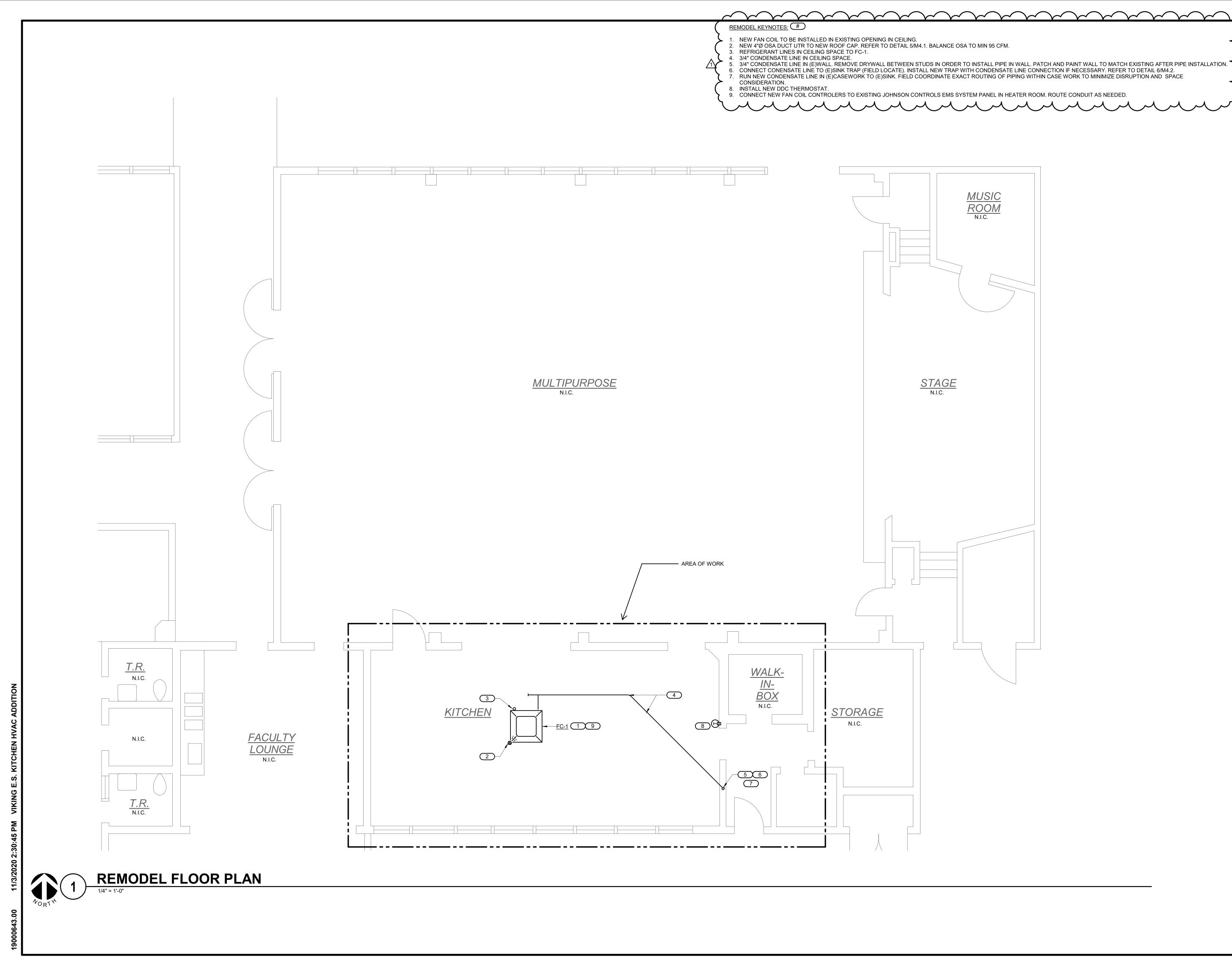
SHEET TITLE

DEMOLITION ROOF PLAN

SCALE
Scale: 1/4" = 1'-0"

SHEET NUMBER

Bid No. 21-43, Viking and Vinland Elementary schools and Cooper Middle School Kitchen HVAC Additions







# VIKING E.S. KITCHEN HVAC ADDITION

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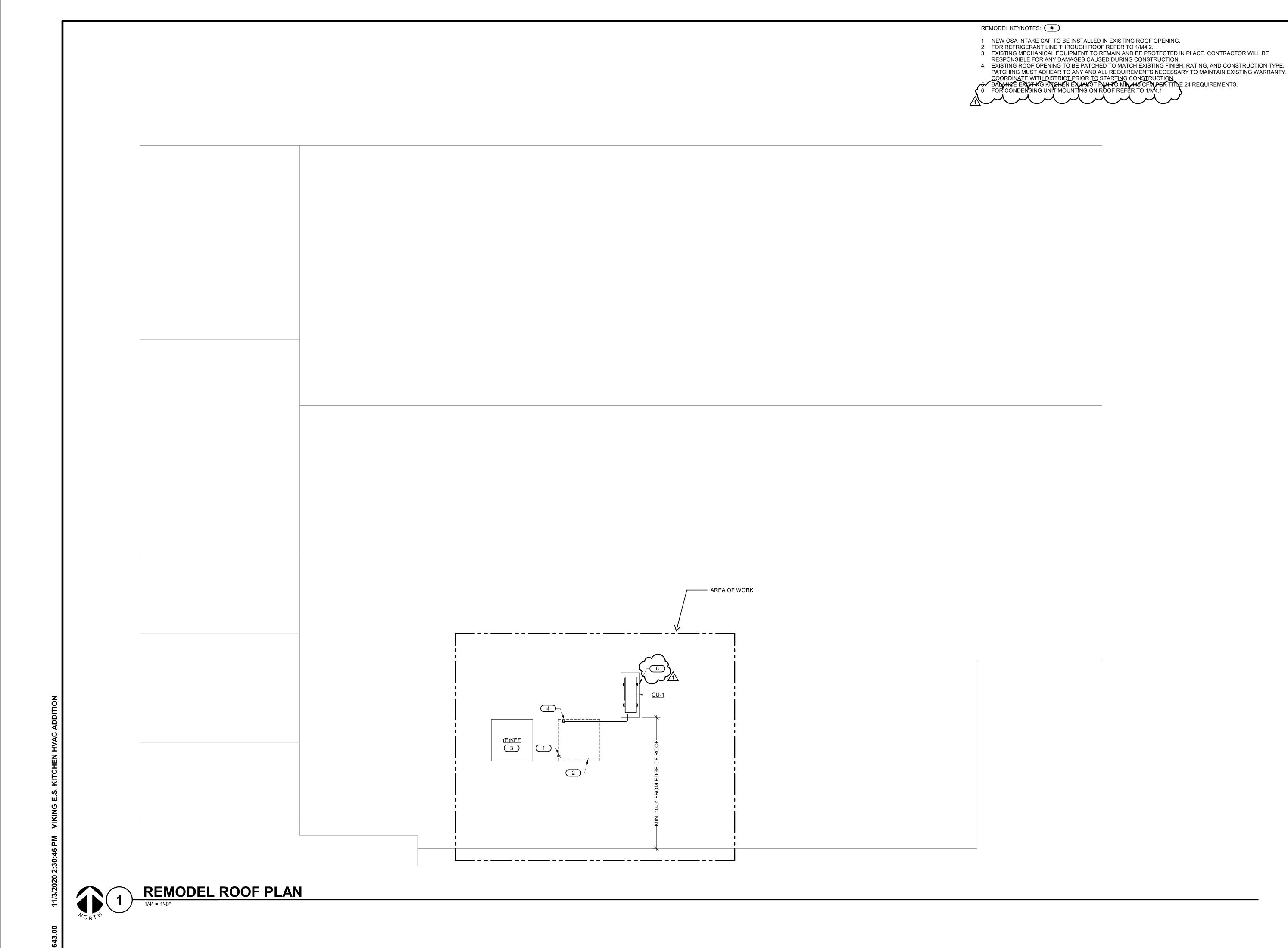
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10.20.2020
er 19000643.00

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SHEET TITLE REMODEL FLOOR PLAN

SCALE Scale: 1/4" = 1'-0"







# VIKING E.S. KITCHEN HVAC ADDITION

4251 N WINERY AVE, FRESNO, CA 93726



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SHEET INFORMATION

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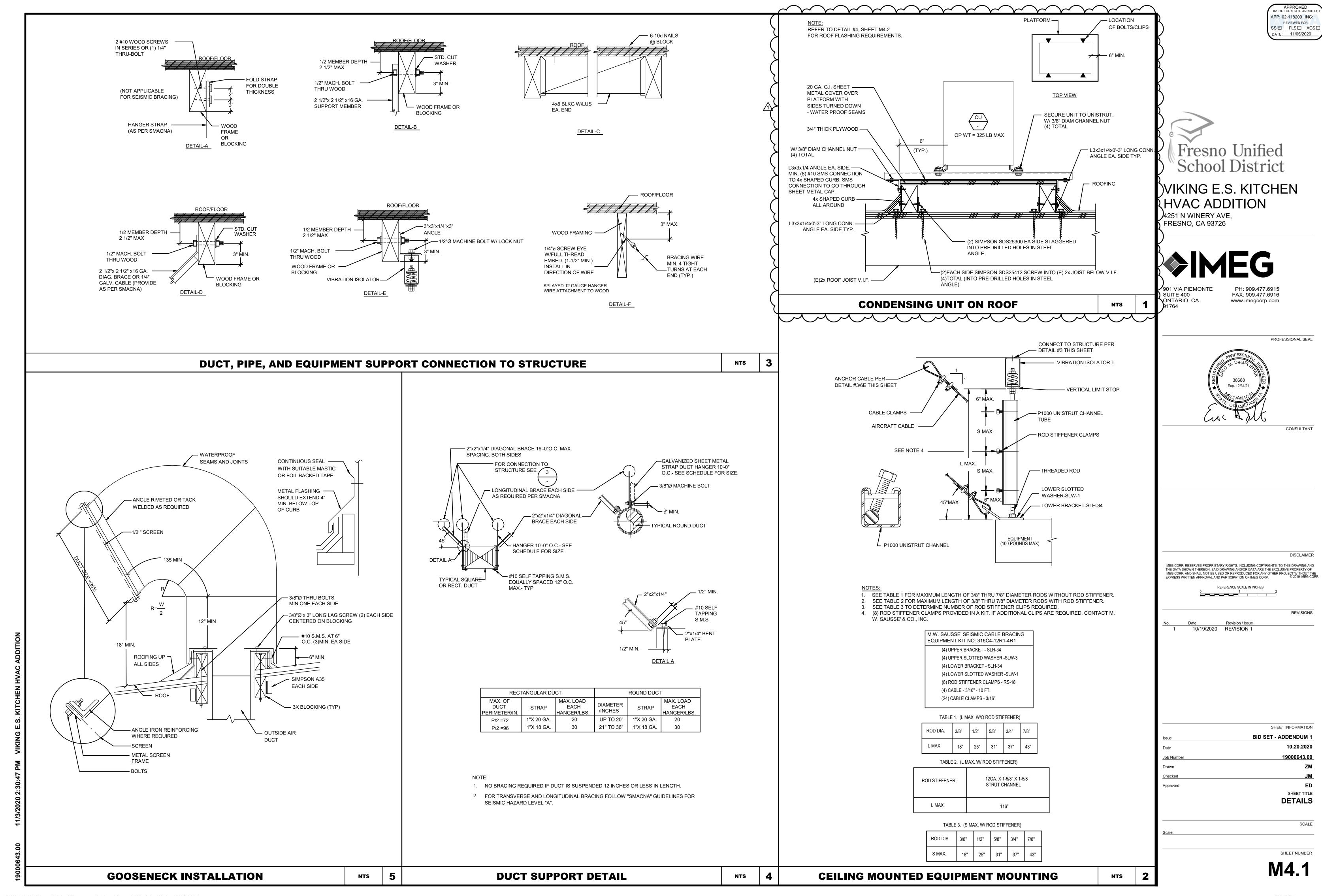
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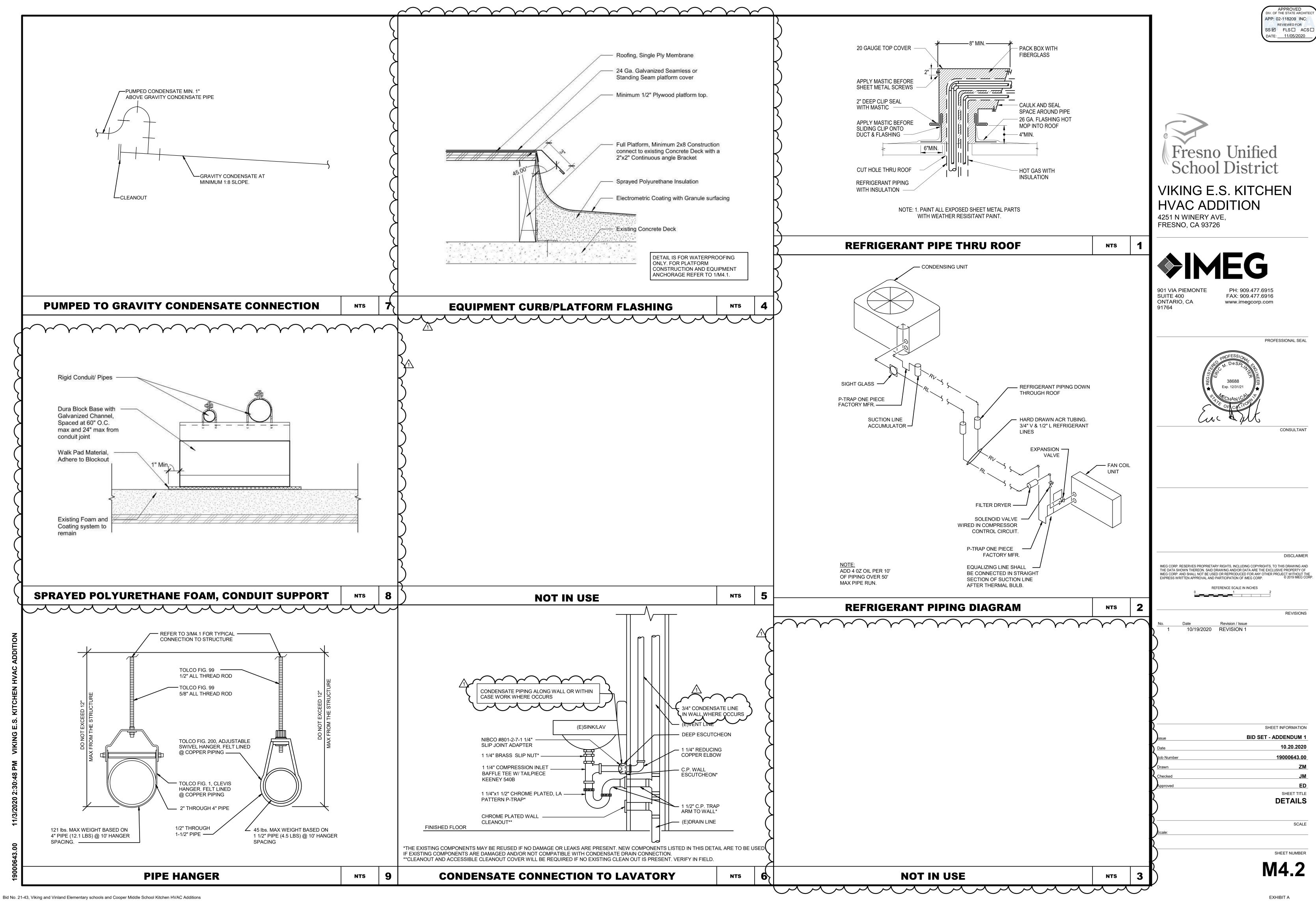
SHEET TITLE
REMODEL ROOF PLAN

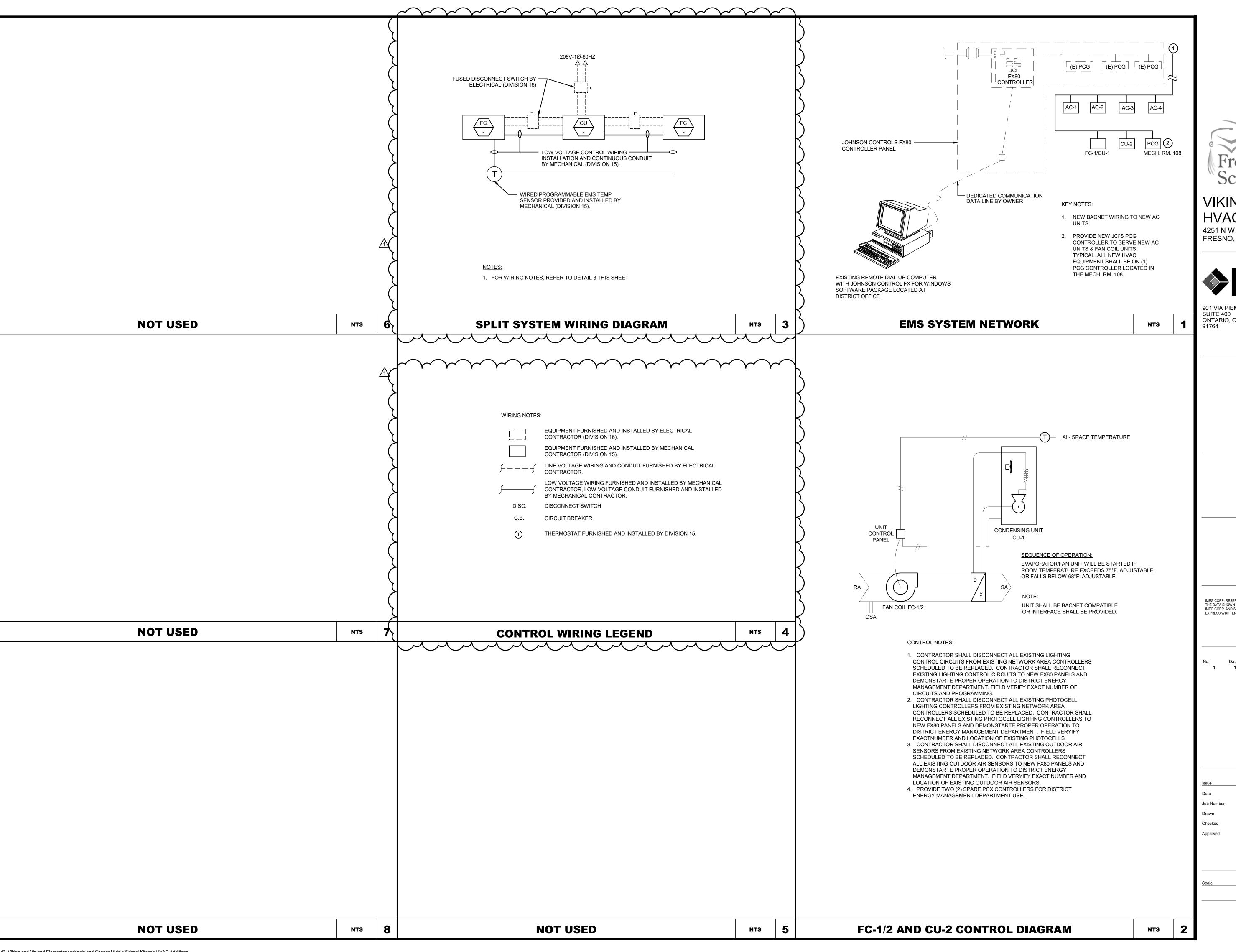
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SHEET NUMBER

**M3.2** 







APPROVED DIV. OF THE STATE ARCHITEC APP: 02-118209 INC: REVIEWED FOR SS ☑ FLS □ ACS □ DATE: 11/05/2020



## VIKING E.S. KITCHEN **HVAC ADDITION**

4251 N WINERY AVE, FRESNO, CA 93726



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SHEET INFORMATION **BID SET - ADDENDUM 1** 19000643.00

SHEET NUMBER

SHEET TITLE

CONTROLS





# Asbestos and Lead Survey Report

Viking Elementary School Kitchen HVAC Upgrade Project 4251 North Winery Avenue Fresno, California 93726

Prepared for:

Ronika Barnes
Fresno Unified School District
4600 N. Brawley Avenue
Fresno, California 93722
(559) 994-6526 |
Ronika.Barnes@fresnounified.org

Prepared By:

Chris Chipponeri, Director
Forensic Analytical Consulting Services
371 E. Bullard Avenue, Suite 109
Fresno, California 93710
(559) 436-0277|
cchipponeri@forensicanalyical.com

FACS Project #PJ60930

## **Contents**

List of Acronyms	2
Executive Summary	3
Introduction	3
Scope of Work	3
Site Characterization	3
Survey Methods	3
Findings and Recommendations	4
Limitations	6

Appendix A: Lead Survey Summary, Sample Chain-of-Custody Form, Laboratory Results Report and CDPH Form 8552

**Appendix B: Sample Location Drawing** 

**Appendix C: Certifications of Personnel and Laboratory** 

**Appendix D: Previous Inspection Information** 

### **List of Acronyms**

ACCM Asbestos Containing Construction Material

ACM Asbestos Containing Material

AHERA Asbestos Hazard Emergency Response Act
AIHA American Industrial Hygiene Association
CAC California - Certified Asbestos Consultant

Cal/OSHA California Occupational Safety and Health Association

CCR Code of California Regulations
CFR Code of Federal Regulation

DOSH Department of Occupational Safety and Health
ELAP Environmental Laboratory Accreditation Program

EPA Environmental Protection Agency (EPA)
FACS Forensic Analytical Consulting Services, Inc.

FALI Forensic Analytical Laboratories, Inc.

ND None Detected

NESHAP National Emissions Standard Hazardous Air Pollutants NIOSH National Institute for Occupational Safety and Health

NIST National Institute of Science and Technology

NVLAP National Voluntary Laboratory Accreditation Program

PLM Polarized Light Microscopy

TEM Transmission Electron Microscopy
TTLC Total Threshold Limit Concentration

#### **Executive Summary**

Forensic Analytical Consulting Services, Inc. (FACS) was retained by Fresno Unified School District to perform a limited asbestos and lead paint survey of Viking Elementary School, located at 4251 North Winery Avenue in Fresno, California. The survey was limited to suspect asbestos-containing materials (ACM) and lead-containing paints of the Kitchen located in the Multi-Purpose Room Building which may be disturbed during the upcoming HVAC upgrade renovation project. A summary list of suspect lead-containing paints / coatings which were identified and sampled is provided in Appendix A of this report. No bulk asbestos sampling was performed as materials to be disturbed had be sampled in the past in preparation for a separate project and FACS confirmed these materials are the same within the project area. The report with past sampling information is provided in Appendix D of this report. The survey was performed on November 4, 2020.

#### **Asbestos**

Previous documentation was reviewed and determined materials have all been sampled during inspections in the past. FACS has included the report for the MPR HVAC Upgrade Project, dated October 31, 2017.

#### Lead

Lead-based paints or coatings have a lead content at or above 1.00 mg/cm<sup>2</sup>, 5,000 parts per million, or 0.5% by weight. None of the paints or coatings tested in the project areas have been identified as lead-based.

A single bulk paint chip was collected and analyzed during this survey. The cream paint on plaster was found to contain a detectable concentration of lead.

FACS recommends that the results of this report be incorporated into any renovation plans provided for this project for informational purposes.

#### Introduction

Forensic Analytical Consulting Services, Inc. (FACS) was retained by Fresno Unified School District to perform a limited asbestos and lead paint survey of Viking Elementary School, located at 4251 North Winery Avenue in Fresno, California. The survey was limited to suspect asbestos-containing materials (ACM) and lead-containing paints of the Kitchen located in the Multi-Purpose Room Building which may be disturbed during the upcoming HVAC upgrade renovation project. The survey was performed on November 4, 2020.

#### **Scope of Work**

The purpose of this survey was to identify asbestos-containing materials (ACMs) and lead-containing paints or coatings which may be disturbed during the upcoming project. The visual inspection, bulk sampling, and survey documentation were performed by Eric Farnsworth and Jeremy Noyola. Mr. Farnsworth is a Division of Occupational Safety and Health (DOSH) Certified Asbestos Consultant (CAC #19-6643) and California Department of Public Health (CDPH) Certified Lead Inspector and Assessor (LRC-00005578) as required by California regulations. Mr. Noyola is an EPA-accredited AHERA Building Inspector and CDPH Certified Lead Sampling Technician (LRC-00005788). Technical oversight of the survey and this report was provided by Chris Chipponeri, who is a DOSH Certified Asbestos Consultant (CAC #10-4633) and CDPH Certified Lead Inspector / Assessor (LRC-00000782). The scope of the survey and the services provided by FACS included:

- Performing a visual inspection of the subject area to identify accessible suspect asbestoscontaining materials (ACMs) that will be disturbed during the upcoming project;
- Collection of bulk material samples for asbestos analysis by polarized light microscopy (PLM);
- Collection of bulk paint chip samples for lead analysis by flame atomic absorption;
- Ensuring the technical quality of all work by using Asbestos Hazard Emergency Response Act (AHERA) accredited Building Inspectors;
- Ensuring the technical quality of all work by using California Department of Public Health (CDPH)
   Certified Lead Sampling Technicians and Inspection/Risk Assessors;
- Consolidating data and findings into a written report format.

#### Site Characterization

Vinland Elementary School is a typical school site located in Fresno, California. The survey was limited to the inspection of the areas to be disturbed during the upcoming project per drawings provided by Fresno Unified School District.

Materials suspected to contain lead include all paints and coatings on building components and surfaces.

### **Survey Methods**

#### **Visual Inspection**

Accessible interior building materials were visually inspected using the methods presented in the Federal AHERA regulations (40 CFR, Part 763). AHERA is required to be used for inspections of K-12 schools and is generally accepted as the industry standard for all ACM inspections regardless of structure or

facility type. Suspect ACMs were also physically assessed for friability, condition and possible disturbance factors.

All specified areas were accessible during this inspection. Other areas and materials found elsewhere at this site are not expected to be disturbed by the project. The inspection is based on the drawings provided by Fresno Unified School District. Review of past inspections found all suspect materials to be disturbed to be none-detect. Since best industry practices were followed and sufficient sampling was performed to meet the AHERA regulation, no additional asbestos sampling was required for this project.

#### **Lead Inspection**

The client-defined lead inspection was conducted in accordance with the CDPH Lead-Related Construction Program and modeled upon the sampling protocol described in "Chapter 7: Lead Based Paint Inspection" of the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (1997 Revision.)

Cal/OSHA, in Title 8 California Code of Regulations (CCR) Section 1532.1, Lead in Construction Standard which implements California Labor Code 8716-6717, regulates all construction work were an employee may be occupationally exposed to lead. Paint or materials with any detectable level of lead is considered lead-containing by Cal/OSHA.

#### **Bulk Sampling Methodology**

During this survey, FACS personnel collected one bulk lead paint chip sample for laboratory analysis. The sample were collected using a knife, chisel, or similar tool to scrape the paint or coating from the substrate it had been applied to and placed in a leak-tight container. The sample was given a unique number, identified on a chain of custody and sent via FedEx to SGS-Forensic Laboratories (SGS-FL) for analysis. SGS-FL is accredited by the American Industrial Hygiene Association's Environmental Lead Laboratory Accreditation Program for the analysis of lead in bulk paint chip samples.

### **Findings and Recommendations**

The survey was limited to the materials to be disturbed per project drawings as part of the upcoming Kitchen HVAC Upgrade Project at Viking Elementary School. These are the findings of the completed survey by FACS.

#### **Asbestos**

Previous documentation was reviewed and determined materials have all been sampled during inspections in the past. FACS has included the report for the MPR HVAC Upgrade Project, dated October 31, 2017.

Any suspect materials not included in this inspection must be assumed to be asbestos-containing materials until tested and proven not to contain asbestos.

#### Lead

Lead-based paints or coatings have lead content at or above 1.00 mg/cm<sup>2</sup>, 5,000 parts per million, or 0.5% by weight. None of the one (1) paint or coating samples tested in the project areas were identified as lead-based paints.

A single bulk paint chip was collected and analyzed during this survey. The cream paint on plaster was found to contain a detectable concentration of lead.

Any other paints and coatings not included in this survey must be handled as lead-containing until sampled and proven otherwise.

#### Cal/OSHA and CDPH Requirements

Any project disturbing paints or coatings with any detectable concentration of lead paint, or presumed lead-containing paint, would be regulated by the Cal/OSHA Lead Construction Standard (8 CCR 1532.1). In addition, CDPH has regulations regarding the safe handling of lead-based paints and prevention of lead hazards being generated in public buildings. The following information is a summary of the requirements only and additional requirements may be required for a project.

Any contractor with workers disturbing any quantity of detectable lead must perform an initial determination regarding worker exposures to lead, which may be based on personal air monitoring at the start of the project, prior employee monitoring from the past 12 months under workplace conditions closely resembling the current project, or objective data demonstrating that exposures will not exceed the Cal/OSHA action level (30 micrograms per cubic meter of air). It is the employer's responsibility to conduct the initial determination and comply with any relevant Cal/OSHA requirements.

Workers disturbing lead must have lead awareness or action level training depending on the initial exposure determination and must use lead-safe work practices. Disturbance of lead-containing paints or coatings must be performed within a contained area to prevent the spread and build-up of lead dust in order to comply with CDPH requirements. HEPA vacuums, dustless tools or shrouds, and/or intact removal of components should be employed to minimize lead dust generation and properly cleanup work areas following disturbance to lead-containing materials during this project. Waste generated during disturbance to lead-containing materials must be profiled in a hazardous waste determination to ascertain proper disposal requirements.

If the initial determination or initial exposure monitoring shows that workers impacting lead can be expected to be or are exposed to lead above the Cal/OSHA permissible exposure level (50 micrograms per cubic meter of air) workers and supervisors must have the requisite training and CDPH certification.

#### EPA Repair, Renovation and Painting (RRP) rule

The EPA's Renovation, Repair, and Painting (RRP) rule applies to disturbance of lead-based paints at child-occupied facilities constructed before 1978. In the context of the RRP rule, child-occupied facility is defined as being visited by the same child under the age of 6 on two or more days per week for at least 3 hours per visit with a cumulative annual total of 60 hours. In California schools, children may be enrolled in Kindergarten if they are age 5 or older on or before September 1, and they may attend pre-Kindergarten summer programs or Transitional Kindergarten programs before being age-eligible for Kindergarten.

While there was lead-based paint present in the project area, it does not appear that more than 20 square feet of the painted exterior surface will be disturbed on this project. The US EPA RRP rule would not apply to this project as FACS understands for the work to be completed.

#### Limitations

This investigation is limited to the conditions and practices observed and information made available to FACS. The methods, conclusions and recommendations provided are based on FACS' judgment, expertise and the standard of practice for professional service. They are subject to the limitations and variability inherent in the methodology employed. As with all environmental investigations, this investigation is limited to the defined scope and does not purport to set forth all hazards, nor indicate that other hazards do not exist.

Please do not hesitate to contact our office at 559-436-0277 with any questions or concerns. Thank you for the opportunity to assist Fresno Unified School District with promoting worker, staff and student safety and a healthy environment.

Respectfully,

FORENSIC ANALYTICAL

Eric Farnsworth
Project Manager

Cal<sup>'</sup>/OSHA CAC #19-6643 CDPH I/A LRC-00005578 Reviewed by:

FORENSIC ANALYTICAL

Chris Chipponeri Local Director

Cal/OSHA CAC #10-4633 CDPH I/A LRC-00000782

### **Appendix A**

# Lead Survey Summary, Sample Chain-of-Custody Form, Laboratory Results Report and CDPH Form 8552

Lead Survey Summary (Lab Report #M229715) Viking Elementary School – Kitchen HVAC Upgrade Project, Fresno, CA Survey Date: November 04, 2020									
Sample Number	Component Location	Color	Substrate	Component	Analytical Results (weight percent of lead)				
01Pb	Kitchen	Cream	Plaster	Wall	0.068				



Formschall attack	moved green	PAINT CHIP SAMPLE REQUEST FORM  Page1 _ of _								e <u>l</u> _ of <u>l</u>			
Client:		.CS Fresno UNIFIED SCHOOL DIS	TRICT	Sampled	by: <b>Jer</b>	emy N	Noyola	PM:	Eric Far	nswo	rth	Date:	11/04/20
Contact:	Eric Fari	nsworth Phone: (	559) 436-0277	Special Instructio	jere	my.noy	ilts to E-mai ola@forens tt@forensic	icanalytica	al.com and				com
Site:	FRESNO Viking E	UNIFIED SCHOOLS	L DISTRICT	Turnarous Time:	nd 1-	-Day	2-Day	3-Day	5-Day	(	Other	Due I	Date and Time:
Client No.:	C23033	FACS Job #:	PJ60930	Analysis:		Flame Other	AA (Pb)	/					
Sample	Number	S	ample Locatio	n		C	omponen	t	Colo	r	Subs	trate	Condition
PJ60930	)-01Pb	Kitchen: South Eas	st of Center				Wall		Crea	n	Pla	ster	ſ
				4									
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				į				2 10 11 7					
							7.8		bstrate: wood	metal	concre	te plast	er drywall brick
	Fed Ex	Airborne UPS			rop Off		ther: / 6/	RECEY	121	10.	0 77:	_	***
Relinquishe	lu SC	SI	Date & Time:	3pm	eived by:	M	YES N	OV 05	2020 🖧	Condi		eptable [	☐ Yes ☐ No
Relinquishe	ed by:		Date & Time:	Rece	eived by:	)11	11一	A	\$ 6		& Time		☐ Yes ☐ No



## Metals Analysis of Paints (AIHA-LAP, LLC Accreditation, Lab ID #101762)

FACS - Fresno **Client ID:** FR09 Eric Farnsworth **Report Number:** M229715 21228 Cabot Blvd. 11/05/20 **Date Received: Date Analyzed:** 11/10/20 Hayward, CA 94545 **Date Printed:** 11/10/20 First Reported: 11/10/20 Job ID / Site: PJ60930; Fresno Unified School District - Facilities Management & Planning **SGSFL Job ID:** FR09 Viking Elementary School 4251 North Winery Ave Fresno CA Date(s) Collected: 11/4/20 **Total Samples Submitted:** 1 **Total Samples Analyzed:** 

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
PJ60930-01PB	30879063	Pb	0.068	wt%	0.006	EPA 3050B/7000B

Kevin Poon, Laboratory Analyst, Hayward Laboratory

evin Poon

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Note\* Sampling data used in this report was provided by the client as noted on the associated chain of custody form.

<sup>\*</sup> The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.

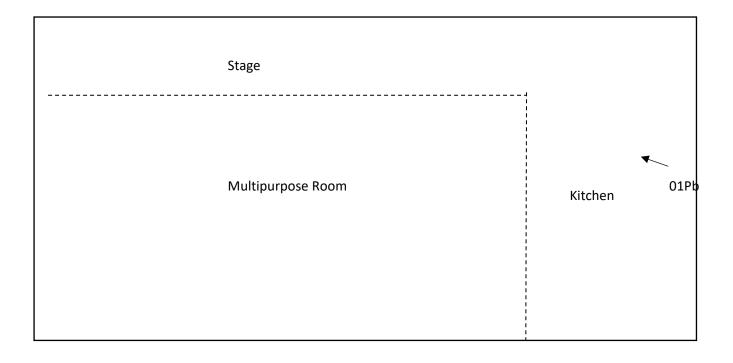
# **Appendix B Sample Location Drawing**



Site Name:	Viking Elementary School
Address:	4251 N. Winery Ave., Fresno, CA
Date:	November 4, 2020

Not Drawn to Scale





### **Appendix C**

## **Certifications of Personnel and Laboratory**

DEPARTMENT OF INDUSTRIAL RELATIONS

Division of Occupational Safety and Health

Asbestos Certification & Training Unit

1750 Howe Avenue, Suite 460

Sacramento, CA 95825

(916) 574-2993 Office <a href="http://www.dir.ca.gov/dosh/asbestos.html">http://www.dir.ca.gov/dosh/asbestos.html</a> acru@dir.ca.gov



909166643C

451

Forensic Analytical Consulting Services, Inc. Eric S Farnsworth
371 E. Bullard Avenue, Suite 109
Fresno CA 93710

**September 15, 2020** 

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. To maintain your certification, you must abide by the rules printed on the back of the certification card.

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days <u>before</u> the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please notify our office via U.S. Postal Service or other carrier of any changes in your mailing or work address within 15 days of the change.

Sincerely,

Jeff Ferrell

Senior Safety Engineer

Attachment: Certification Card

cc: File

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Eric S Farnsworth

Name

Certification No. 19-6643

Expires on 10/16/21

This certification was Issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et sed. of the Business and Professions Code.

# HMS Training

a division of Forensic Analytical Consulting Services

This is to confirm that

## **Eric Farnsworth**

Has attended the four-hour

### **AHERA Refresher Course for Asbestos Inspectors**

And has completed the requisite training and passed the exam for

asbestos accreditation under TSCA Title II

July 8, 2020

Certificate Number: HMSBIR824

Valid Until: July 8, 2021

Cal/OSHA Approval Number: CA-025-06



Michael C. Sharp - Training Director
HMS/Forensic Analytical Consulting Services
207 McHenry Ave. Modesto, CA 95354

muchus C Short

(800) 677-1483



#### STATE OF CALIFORNIA DEPARTMENT OF PUBLIC HEALTH



## LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL: CERTIFICATE TYPE:

Lead Inspector/Assessor

Lead Sampling Technician

**NUMBER:** 

LRC-00005578

LRC-00000970

2/18/2021

**EXPIRATION DATE:** 

5/22/2020

**Eric Farnsworth** 

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at <a href="https://www.cdph.ca.gov/programs/clppb">www.cdph.ca.gov/programs/clppb</a> or calling (800) 597-LEAD.

# HMS Training

a division of Forensic Analytical Consulting Services

This is to confirm that

## Jeremy Noyola

Has attended the twenty-four hour

### **AHERA Course for Asbestos Inspectors**

And has completed the requisite training and passed the exam for

asbestos accreditation under TSCA Title II

March 2-4, 2020

Certificate Number: HMSBII173

Valid Until: March 4, 2021

Cal/OSHA Approval Number: CA-025-05



Michael C. Sharp - Training Director HMS/Forensic Analytical Consulting Services 207 McHenry Ave. Modesto, CA 95354 (800) 677-1483

mutuel C. Mr



## STATE OF CALIFORNIA DEPARTMENT OF PUBLIC HEALTH



## LEAD-RELATED CONSTRUCTION CERTIFICATE

**INDIVIDUAL:** 

**CERTIFICATE TYPE:** 

**NUMBER:** 

**EXPIRATION DATE:** 

Lead Sampling Technician

LRC-00005788

2/28/2021



Jeremy Noyola

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at <a href="https://www.cdph.ca.gov/programs/clppb">www.cdph.ca.gov/programs/clppb</a> or calling (800) 597-LEAD.

#### STATE OF CALIFORNIA

DEPARTMENT OF INDUSTRIAL RELATIONS

Division of Occupational Safety and Health

Asbestos Certification & Training Unit

2424 Arden Way, Suite 495

Sacramento, CA 95825-2417

(916) 574-2993 Office <a href="http://www.dir.ca.gov/dosh/asbestos.html">http://www.dir.ca.gov/dosh/asbestos.html</a> acru@dir.ca.gov



005174633C

339

June 08, 2020

Christopher J Chipponeri 1401 Louise Avenue Modesto CA 95350

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. To maintain your certification, you must abide by the rules printed on the back of the certification card.

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days <u>before</u> the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please notify our office via U.S. Postal Service or other carrier of any changes in your mailing or work address within 15 days of the change.

Sincerely,

Jeff,Ferrell

Serlidr Safety Engineer

Attachment: Certification Card

cc: File

Renewal - Card Attached 08/2019

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Christopher J Chipponeri

Certification No. 110-4633

Expires on 06/16/21

This certification was issued by the pivision of Occupational Seriety and Health as authorized by Sections 7 80 at Sec. of the Business and Professions Code.

# HMS Training

a division of Forensic Analytical Consulting Services

This is to confirm that

## Chris Chipponeri

Has attended the four-hour

### **AHERA Refresher Course for Asbestos Inspectors**

And has completed the requisite training and passed the exam for

asbestos accreditation under TSCA Title II

September 9, 2020

Certificate Number: HMSBIR851

Valid Until: September 9, 2021

Cal/OSHA Approval Number: CA-025-06



mechael Chap

Michael C. Sharp - Training Director HMS/Forensic Analytical Consulting Services 207 McHenry Ave. Modesto, CA 95354 (800) 677-1483



## STATE OF CALIFORNIA DEPARTMENT OF PUBLIC HEALTH



### LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:

**CERTIFICATE TYPE:** 

**NUMBER:** 

**EXPIRATION DATE:** 

Lead Inspector/Assessor

LRC-00000782

6/20/2021



Chris Chipponeri

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at <a href="https://www.cdph.ca.gov/programs/clppb">www.cdph.ca.gov/programs/clppb</a> or calling (800) 597-LEAD.





#### **AIHA Laboratory Accreditation Programs, LLC**

acknowledges that

#### SGS Forensic Laboratories 3777 Depot Rd, Suite 409, Hayward, CA 94545-2761 Laboratory ID: LAP-101762

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

#### LABORATORY ACCREDITATION PROGRAMS

$\checkmark$	INDUSTRIAL HYGIENE	Accreditation Expires: December 01, 2020
$\checkmark$	ENVIRONMENTAL LEAD	Accreditation Expires: December 01, 2020
$\checkmark$	ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires: December 01, 2020
	FOOD	Accreditation Expires:
	UNIQUE SCOPES	Accreditation Expires: December 01, 2020

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Bet Bair

Elizabeth Bair Chairperson, Analytical Accreditation Board Cheryl O Morton

Managing Director, AIHA Laboratory Accreditation Programs, LLC

Cheryl O. Marton

Revision 17: 09/11/2018 Date Issued: 08/02/2019

# **Appendix D Previous Inspection Information**



## Hazard Management Services, Inc.

371 E Bullard Ave., Suite 109 ● Fresno, CA 93710 (559) 436-0277 ● www.hazmanage.com

October 31, 2017

Ms. Ronika Barnes Fresno Unified School District 4600 N. Brawley Ave. Fresno, CA 93722-3921

Subject: Viking Elementary School

Multipurpose Building – Limited Roofing and Boiler/Mechanical Room Inspection

Asbestos Sampling Report HMS, Inc. Project No. F17192

Dear Ms. Barnes,

Pursuant to your request, on October 19 and 26, 2017, Hazard Management Services, Inc. (HMS, Inc.) conducted a limited asbestos survey for renovation purposes at the Multipurpose Building and Building E Boiler Room at Viking Elementary School, in Fresno, California. Planned renovations include removal and replacement of HVAC units on the roof of the structure, and reconfiguration and/or removal of components from the MPR Mechanical Room and the Boiler Room in Building E. This current survey supplements the original asbestos inspection at this site, conducted by Kurt Gates in 1988, with samples analyzed by Clark Geological Services (CGS), and was undertaken to determine if any additional suspect asbestos-containing materials were present in project areas.

The survey was performed Jacob Sharp an EPA-accredited Building Inspector and Cal/OSHA certified Site Surveillance Technician, under the supervision of Joseph M. Vuglia, who is an EPA-accredited asbestos Building Inspector and Cal/OSHA Certified Asbestos Consultant (see attached certifications). Several building materials that may be disturbed during renovation were observed which are considered "suspect" under US EPA guidelines. Under current US EPA guidelines for conducting building inspections for ACM, all "suspect" building materials must be **assumed** to contain asbestos until otherwise determined by laboratory testing. A complete list of suspect materials that will be disturbed which were identified, sampled, and included in this survey are listed in Appendices A and B

#### INSPECTION PROTOCOL

The following inspection process was followed by HMS, Inc. at the above referenced site:

The areas were visually inspected for suspect materials.

Representative bulk samples of each suspect material were collected using a scraper, chisel, or power drill. Descriptions of sample locations are included on the Bulk Sample Analysis for Asbestos Request (chain of custody) forms. The samples were analyzed using polarized light microscopy (PLM) by Forensic Analytical Laboratories, Inc., a NVLAP accredited laboratory in Havward. CA.

Due to the use of nondestructive investigating, HMS, Inc. cannot report materials which might exist within any layered or enclosed system of materials. If any additional materials, other than those included in this report, are discovered during renovation, it must be assumed that such materials contain asbestos and the project should then be halted and reevaluated.

#### **BULK SAMPLE RESULTS**

HMS, Inc. collected 22 bulk samples of suspect materials that may be affected during renovations involving the roof-mounted HVAC units and Boiler/Mechanical Room equipment. See the attached laboratory reports for detailed analysis information.



#### **US EPA AND OSHA COMPLIANCE**

#### **US EPA**

The US EPA NESHAP (40 CFR Part 61 - Nov. 20, 1990) requires materials containing greater than one percent asbestos be removed prior to renovation or demolition of a regulated building, if those materials are friable or likely to become friable due to the forces expected to act upon them during renovation or demolition. In California, there are "delegated" counties which enforce the NESHAP regulations, and may have regulations more restrictive than the US EPA.

A ten (10) day waiting period is still required, however, following renovation or demolition notification to the US EPA.

#### Cal/OSHA

Cal/OSHA worker health and safety regulations apply during any disturbance of ACM by a person while in the employ of another. This is true regardless of friability or quantity disturbed. If there is greater than 100 square feet of asbestos which will be affected by the demolition, a California Licensed Contractor who is registered with Cal/OSHA for asbestos is required. The regulations regarding asbestos are found in Title 8 CCR Section 1529, and also include formal notification requirements to Cal/OSHA at least 24 hours prior to removal.

#### Contractors State Licensing Board (CSLB)

Pursuant to current CSLB requirements, the remediation contractor must meet the following requirements:

- 1. Possession of the C-22 Asbestos Abatement License or
- Possession of the individual C-class Specialty License for each individual trade work to be performed with asbestos certification or
- 3. For work involving two or more trades of work, a B-class General license with asbestos certification.

#### **DISCLAIMERS**

The nature of renovation or demolition is such that materials can be uncovered which previously were unknown to exist. Therefore, HMS, Inc. cannot be responsible for "hidden materials," although every effort was made during the inspection to detect all suspect materials. If any materials, other than those included herein, are discovered during renovation, it must be assumed that the materials are asbestoscontaining, and the project should then be halted and reevaluated.

If you have any questions regarding this report, or if you desire any additional services, please contact our Fresno office at (559) 436-0277.

Josh M Vinglin

Sincerely,

Cal/OSHA SST #16-5815

Reviewed by: Joe Vuglia, Senior Project Manager

Cal/OSHA CAC #13-5005



#### **APPENDIX A**

## ASBESTOS SURVEY FOR RENOVATION VIKING ELEMENTARY SHOOL MULTIPURPOSE BUILDING – ROOF, CAFETERIA, & MECHANICAL ROOM

HMS, Inc. Project No. F17192

Inspection Date: October 19 and 26, 2017

#### **BUILDING DESCRIPTION**

The Multipurpose Building has a rolled composition roof, with HVAC units mounted on raised curbs covered with a metal shroud. The roof system contains built up tar and felt layers over a fibrous underlayment, with silver paint beneath a white coating layer on the surface. Exterior walls are stucco. Interior areas have plaster walls and ceilings, with acoustic ceiling tile. The original 1988 inspection noted the presence of pipe insulation in attic/plenum areas, but these materials were not identified during the current inspection.

#### **BULK SAMPLE RESULTS**

The following suspect materials were identified in the specified project areas, and bulk samples were collected and analyzed, or were previously sampled in the initial inspection and were analyzed in 1988 by CGS:

Rolled composition roofing Fiberglass insulation

12" Vinyl floor tile and mastic 4" Vinyl baseboard and mastic

Stucco Mastic (various)
Plaster Acoustic ceiling tiles
Window putty Sealants (various)

The samples were shipped to Forensic Analytical Laboratories, Inc., a NVLAP-accredited laboratory in Hayward, California. Laboratory analysis was performed using polarized light microscopy with dispersion staining.

#### ASBESTOS-CONTAINING MATERIALS

MATERIAL	LOCATION	ASBESTOS CONTENT	APPROX. QUANTITY	NESHAP CATEGORY*
07A: 12" VFT (tan popcorn) and mastic*	MPR	2% Chrysotile in mastic	+/- 2250 Square Feet	Category I, non– friable

<sup>\*</sup>Flooring will not be disturbed during this renovation project.

If any additional suspect materials, other than those included herein, are discovered during renovation, it must be assumed that such materials are asbestos containing, and must be treated as such until proven otherwise by laboratory analysis.

Please include this report with submissions to the San Joaquin Valley Air Pollution Control District to document that a thorough asbestos inspection was performed for this renovation, in accordance with the National Emission Standards for Hazardous Air Pollutants (NESHAP) for asbestos.

Jacob Sharts forth M. Vaylin

Written by: Jacob Sharp, Project Manager

Cal/OSHA SST # 16-5815

Reviewed by: Joe Vuglia, Senior Project Manager

Cal/OSHA CAC #13-5005

**Date:** October 31, 2017



#### **APPENDIX B**

## ASBESTOS SURVEY FOR RENOVATION VIKING ELEMENTARY SHOOL Classroom WING 13-10 -BOILER ROOM

HMS, Inc. Project No. F17192

Inspection Date: October 19 and 26, 2017

#### **BUILDING DESCRIPTION**

The Mechanical/Boiler Room contains a boiler and fiberglass pipe insulation. The floor is concrete, and walls and ceilings are plaster, with stucco at exterior walls.

#### **BULK SAMPLE RESULTS**

The following suspect materials were identified in the specified project areas, and bulk samples were collected and analyzed or previously sampled (by CGS):

Plaster Concrete

Stucco (CGS) Fiberglass pipe insulation with wrap

The samples were shipped to Forensic Analytical Laboratories, Inc., a NVLAP-accredited laboratory in Hayward, California. Laboratory analysis was performed using polarized light microscopy with dispersion staining.

#### RESULTS: NO ASBESTOS WAS DETECTED IN SAMPLED SUSEPCT MATERIALS.

If any additional suspect materials, other than those included herein, are discovered during renovation, it must be assumed that such materials are asbestos containing, and must be treated as such until proven otherwise by laboratory analysis.

Please include this report with submissions to the San Joaquin Valley Air Pollution Control District to document that a thorough asbestos inspection was performed for this renovation, in accordance with the National Emission Standards for Hazardous Air Pollutants (NESHAP) for asbestos.

Jacob Shouts

pool 11 Vaylin

**Written by:** Jacob Sharp, Project Manager

Cal/OSHA SST # 16-5815

Reviewed by: Joe Vuglia, Senior Project Manager

Cal/OSHA CAC #13-5005

**Date:** October 31, 2017



#### **Bulk Material Analysis Request Form**

Hazard Management Services, Inc.

Date:	10/19/2017	Contact Name:	Jacob Sharp
Collected By:	Jacob Sharp		Acct # 1636
Date Collected:		Type of Analysis:	PLM with Dispersion Staining
		Turn Around Time:	24 Hr.
		Laboratory:	Forensic Analytical Laboratories
1 1 15	E47400 E . II.'E LO. LD'	4 1 4	

Job ID: F17192 – Fresno Unified School District

Job Site: Viking Elementary School - MPR Boiler Room Inspection

Special Instructions:

Email Results: jsharp@hazmanage.com, dspyle@hazmanage.com jolsen@hazmanage.com

Sample ID	Results	Material Description and Location
HMS-F17192-01A		Concrete Floor
		13-10 Boiler Room – West Side North End
HMS-F17192-02A		Plaster – Sanded
		13-10 Boiler Room – East Side South End at Damaged
HMS-F17192-02B		Plaster – Sanded
		MPR Stage - North Side East End at Damaged
HMS-F17192-02C		Plaster – Sanded
		MPR Boiler Room – North Side West End
HMS-F17192-03A		Fiberglass on Pipes
		13-10 Boiler Room – North Side Center
HMS-F17192-03B		Fiberglass on Pipes
		MPR Boiler Room – North Side West End
HMS-F17192-04A		Interior Concrete Ring
		13-10 Boiler Room – East Side South End
HMS-F17192-05A		Sealant (Green)
		MPR Boiler Room – West Side Center on Boiler
HMS-F17192-06A		Sealant (White)
		MPR Boiler Room – West Side Center on Boiler
HMS-F17192-07A		12" VFT (Tan Popcorn) & mastic
		MPR - North Side East End at Stage
HMS-F17192-08A		12" ACT (Uniform) on Drywall
		MPR – West Side North End at Entry
HMS-F17192-09A		12" ACT (Fissure Pinhole) on Drywall
		MPR – West Side North End at Entry

	15/10/	3/			
Submitted By:		RECEIVED	Date:	10/23/2017	
Received By:		01 04 2017	Date:		
		Page Hof 2	5		
		121 M	/5/		



#### **Bulk Material Analysis Request Form**

Hazard Management Services, Inc.

Date:	10/19/2017	Contact Name:	Jacob Sharp
Collected By:	Jacob Sharp		Acct # 1636
Date Collected:	Various	Type of Analysis:	PLM with Dispersion Staining
		Turn Around Time:	24 Hr.
		Laboratory:	Forensic Analytical Laboratories
Job: ID:	F17192 - Fresno Unified School Distric	ct	
Job Site:	Viking Elementary School - MPR Boile		
Special			
Instructions:			
Email Deculter	isharn@hazmanage.com_denyle@haz	manage com jolsen	Ohazmanage com

Sample ID	Results	Material Description and Location
HMS-F17192-10A		12" VFT (Brown) & mastic
		MPR – North Side East End at Stage
HMS-F17192-11A		Vibration Collar
		MPR Boiler Room - South Side Center on Boiler
HMS-F17192-12A		Rolled Roof Composition
		MPR R00f – East Side North End
HMS-F17192-12B		Rolled Roof Composition
		MPR Roof – North Side East End at Corner
HMS-F17192-12C		Rolled Roof Composition
		MPR Roof – East Side North End at Curb
HMS-F17192-13A		Sealant (Gray)
		MPR Roof – East Side North End on HVAC Unit
HMS-F17192-14A		Mastic (Gray)
		MPR Roof – East Side North End on HVAC Unit
HMS-F17192-15A		Foam Insulation
		MPR Roof – East Side North End on HVAC Unit

Submitted By:
Received By:
Page 2 of 2 10/23/2017

Page 2 of 2 10/23/2017



## **Bulk Asbestos Analysis**

(EPA Method 600/M4-82-020 and 600/R-93-116, Visual Area Estimation)

**Client ID:** 1636 Hazard Mgmt. Services Jacob Sharp **Report Number:** B248296 Fresno Location **Date Received:** 10/24/17 371 E. Bullard Ave., Ste. 109 **Date Analyzed:** 10/25/17 Fresno, CA 93710 **Date Printed:** 10/25/17 10/25/17 First Reported: Job ID/Site: F17192 - Fresno Unified School District, Viking Elementary School-MPR Boiler FALI Job ID: 1636 **Total Samples Submitted: 20** Room Inspection **Date(s) Collected:** 10/19/2017 **Total Samples Analyzed:** Asbestos Percent in Asbestos Percent in Asbestos Percent in Sample ID Lab Number Type Layer Type Layer Type Layer HMS-F17192-01A 11949317 Layer: Grey Cementitious Material ND Total Composite Values of Fibrous Components: Asbestos (ND) HMS-F17192-02A 11949318 ND Layer: White Plaster Layer: Paint ND Total Composite Values of Fibrous Components: Asbestos (ND) Cellulose (Trace) HMS-F17192-02B 11949319 Layer: White Plaster ND Layer: Paint ND Total Composite Values of Fibrous Components: Asbestos (ND) Cellulose (Trace) HMS-F17192-02C 11949320 Layer: White Plaster ND ND Layer: Paint Total Composite Values of Fibrous Components: Asbestos (ND) Cellulose (Trace) HMS-F17192-03A 11949321 Layer: Yellow Fibrous Material ND Layer: Tan Fibrous Material ND Layer: Silver Foil ND Total Composite Values of Fibrous Components: Asbestos (ND) Fibrous Glass (90 %) Cellulose (5 %) HMS-F17192-03B 11949322 ND Layer: Yellow Fibrous Material Layer: Tan Fibrous Material ND Layer: Silver Foil ND Total Composite Values of Fibrous Components: Asbestos (ND) Cellulose (5 %) Fibrous Glass (90 %)

**Report Number:** B248296 **Date Printed:** 10/25/17

Client Name: Hazard Mgmt. Services					<b>Date Printed:</b>	10/25/17	7
Sample ID	Lab Numbe	Asbestos r Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
HMS-F17192-04A Layer: Grey Cementitious Material	11949323		ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	iponents:	Asbestos (ND)					
HMS-F17192-05A Layer: Green Semi-Fibrous Material	11949324		ND				
Total Composite Values of Fibrous Com Cellulose (10 %)	ponents:	Asbestos (ND)					
HMS-F17192-06A  Layer: Green Semi-Fibrous Material  Layer: Paint	11949325		ND ND				
Total Composite Values of Fibrous Com Cellulose (30 %) Wollastonite (5 %	-	Asbestos (ND)					
HMS-F17192-07A Layer: Beige Tile Layer: Black Mastic	11949326	Chrysotile	ND 2 %				
Total Composite Values of Fibrous Com Cellulose (Trace)	iponents:	Asbestos (Trace	)				
HMS-F17192-08A  Layer: Tan Fibrous Material  Layer: Paint  Layer: White Drywall	11949327		ND ND ND				
Total Composite Values of Fibrous Com Cellulose (65 %) Fibrous Glass (2 %	-	Asbestos (ND)					
HMS-F17192-09A  Layer: White Drywall  Layer: Beige Fibrous Tile  Layer: Paint	11949328		ND ND ND				
Total Composite Values of Fibrous Com Cellulose (30 %) Fibrous Glass (25	-	Asbestos (ND)					
HMS-F17192-10A Layer: Beige Tile Layer: Yellow Mastic Layer: Off-White Non-Fibrous Material	11949329		ND ND ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (ND)					
HMS-F17192-11A  Layer: Black Non-Fibrous Material  Layer: White Woven Material  Layer: Black Non-Fibrous Material	11949330		ND ND ND				
Total Composite Values of Fibrous Com Fibrous Glass (80 %)	ponents:	Asbestos (ND)					

**Report Number:** B248296

Client Name: Hazard Mgmt. Services **Date Printed:** 10/25/17

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
HMS-F17192-12A	11949331						
Layer: White Non-Fibrous Coating			ND				
Layer: Silver Paint			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt Layer: Tan Fibrous Material			ND ND				
•		1 ( (2002)	ND				
Total Composite Values of Fibrous Co Cellulose (35 %) Fibrous Glass (1	•	sbestos (ND) stonite (Trace)	)				
Comment: Bulk complex sample.	,	, ,					
HMS-F17192-12B	11949332						
Layer: White Non-Fibrous Coating			ND				
Layer: Silver Paint			ND				
Layer: Black Tar			ND				
Layer: Black Felt Layer: Black Tar			ND ND				
Layer: Black Falt			ND ND				
Layer: Black Ter			ND ND				
Layer: Black Felt			ND				
Layer: Tan Fibrous Material			ND				
Total Composite Values of Fibrous Co	omponents: A	sbestos (ND)					
Cellulose (35 %) Fibrous Glass (1	-	tonite (Trace)	)				
Comment: Bulk complex sample.	,	, ,					
HMS-F17192-12C	11949333						
Layer: White Non-Fibrous Coating	, .,		ND				
Layer: Silver Paint			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Tan Fibrous Material			ND				
Total Composite Values of Fibrous Co	•	sbestos (ND)					
Cellulose (35 %) Fibrous Glass (1 Comment: Bulk complex sample.	(5 %) Wollas	tonite (Trace)	)				
HMS-F17192-13A	11949334						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Fibrous Co	omponents: A	sbestos (ND)					

Report Number: B248296
Client Name: Hazard Mgmt. Services Date Printed: 10/25/17

Lab Numbe	Asbestos r Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
11949335		ND ND ND				
ponents:	Asbestos (ND)					
11949336		ND ND				
ponents:	Asbestos (ND)					
	11949335 inponents: 11949336	Lab Number Type  11949335  nponents: Asbestos (ND)  11949336	Lab Number         Type         Layer           11949335         ND         ND           ND         ND         ND           Asbestos (ND)         ND         ND           11949336         ND         ND	Lab Number         Type         Layer         Type           11949335         ND ND ND ND         ND ND ND           apponents:         Asbestos (ND)         ND ND ND	Lab Number         Type         Layer         Type         Layer           11949335         ND ND ND ND         ND ND ND         ND ND ND           11949336         ND ND ND ND         ND ND ND ND ND         ND ND ND ND ND ND ND	Lab Number Type Layer Type Layer Type  11949335  ND ND ND ND ND 11949336  ND

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



#### **Bulk Material Analysis Request Form**

Hazard Management Services, Inc.

Date:	10/26/2017	Contact Name:	Jacob Sharp			
	Jacob Sharp		Acct # 1636			
Date Collected:		Type of Analysis:	PLM with Dispersion Staining			
		Turn Around Time:	24 Hr.			
		Laboratory:	Forensic Analytical Laboratories			
Job ID:	F17192 - Fresno Unified School Distr	ict				
Job Site:	Viking Elementary School - MPR Boil	er Room Inspection_				
Special						
Instructions:						
Email Results:	: isharp@hazmanage.com, dspyle@hazmanage.com iolsen@hazmanage.com					

Sample ID	Results	Material Description and Location	
HMS-F17192-16A		Exterior Stucco	
		Exterior MPR: South Side East End	
HMS-F17192-17A Window Putty		Window Putty	
		Exterior MPR: South Side East End	





Cellulose (Trace)

### **Bulk Asbestos Analysis**

(EPA Method 600/M4-82-020 and 600/R-93-116, Visual Area Estimation)

Hazard Mgmt. Services Client ID: 1636 Jacob Sharp **Report Number:** B248462 Fresno Location **Date Received:** 10/27/17 371 E. Bullard Ave., Ste. 109 **Date Analyzed:** 10/27/17 Fresno, CA 93710 **Date Printed:** 10/30/17 10/30/17 First Reported: Job ID/Site: F17192, Fresno Unified School District, Viking Elementary School-MPR Boiler FALI Job ID: 1636 **Total Samples Submitted: 2** Room Inspection **Date(s) Collected:** 10/26/2017 **Total Samples Analyzed:** Percent in Asbestos Asbestos Percent in Asbestos Percent in Sample ID Lab Number Type Layer Type Layer Type Layer HMS-F17192-16A 11950282 Layer: White Cementitious Material ND Layer: Paint ND Total Composite Values of Fibrous Components: Asbestos (ND) Cellulose (Trace) HMS-F17192-17A 11950283 Layer: Grey Non-Fibrous Material ND ND Layer: Paint Total Composite Values of Fibrous Components: Asbestos (ND)

Tad Thrower

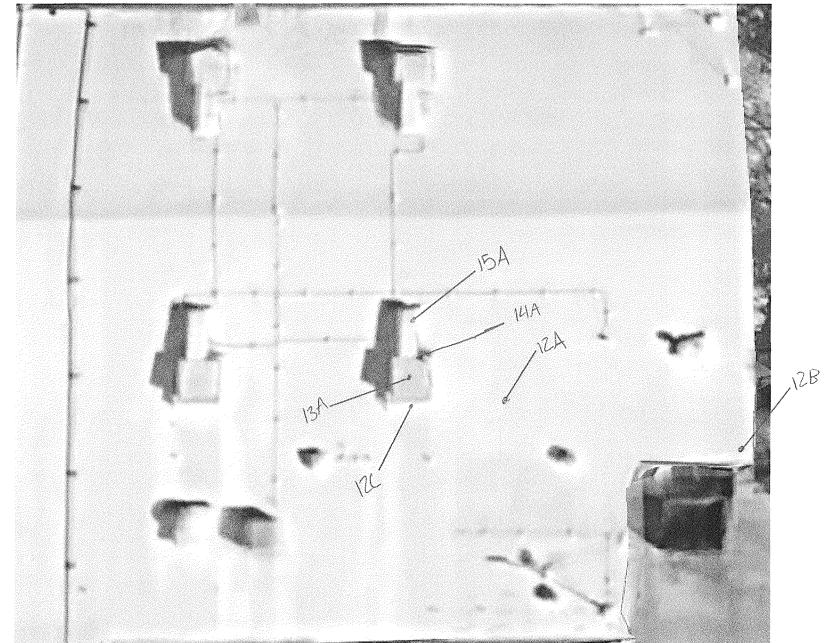
Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

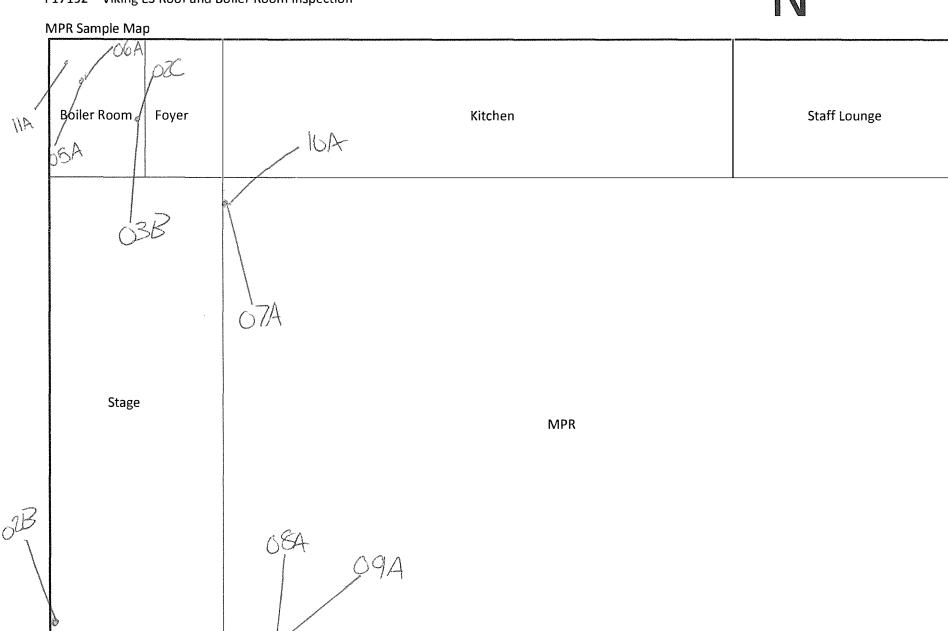
Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

MPR Sample Map	,	
Boiler Room Foyer	NoA 174 Kitchen	Staff Lounge
Stage	MPR	

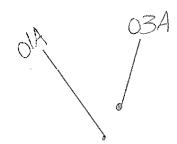




Bid No. 21-43, Viking and Vinland Elementary schools and Cooper Middle School Kitchen HVAC Additions









This is to confirm that

## Jacob M. Sharp

Has attended the four-hour

### **AHERA Refresher Course for Asbestos Inspectors**

And has completed the requisite training and passed the exam for

asbestos accreditation under TSCA Title II

**September 12, 2017** 

Certificate Number: HMSBIR298

Valid Until: September 12, 2018

Cal/OSHA Approval Number: CA-025-06



Michael C. Sharp - AHERA Training Director Hazard Management Services, Inc. 207 McHenry Ave. Modesto, CA 95354

(209) 551-2000

DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health
Asbestos Unit
2424 Arden Way, Suite 495
Sacramento, CA 95825-2417
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http://www.dir.ca.gov/dirdatabases.html actu@dir.ca.gov



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Hazard Management Services, Inc.
Jacob M Sharp
207 McHenry Ave
Modesto CA 95354

September 11, 2017

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. To maintain your certification, you must abide by the rules printed on the back of the certification card.

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days <u>before</u> the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address, fax number or email; of any changes in your contact/mailing information within 15 days of the change.

Sincerely.

Jeff Ferrell

Senior Safety Engineer

Attachment: Certification Card

cc: File

State of California
Division of Occupational Safety and Health
Certified Site Surveillance Technician

Jacob M Sharp

Name

Certification No. 16-5815

Expires on \_11/16/18

This certification was issued by the Division of Occupational Salety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

Renewal - Card Attached (Revised 10/24/2012)



This is to confirm that

## Joe M. Vuglia

Has attended the four-hour

## **AHERA Refresher Course for Asbestos Inspectors**

And has completed the requisite training and passed the exam for

asbestos accreditation under TSCA Title II

**September 12, 2017** 

Certificate Number: HMSBIR304

Valid Until: September 12, 2018

Cal/OSHA Approval Number: <u>CA-025-06</u>



Michael C. Sharp - AHERA Training Director Hazard Management Services, Inc. 207 McHenry Ave. Modesto, CA 95354 (209) 551-2000

#### STATE OF CALIFORNIA

DEPARTMENT OF INDUSTRIAL RELATIONS
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February 14, 2017

Joseph M Vuglia 371 E. Bullard Ave. #109

Fresno

CA 93710

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. To maintain your certification, you must abide by the rules printed on the back of the certification card.

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days <u>before</u> the expiration date shown on your card. [8 CCR 341.15(h)(1)].

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Please contact our office at the above address, fax number or email; of any changes in your contact/mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell

Senior Safety Engineer

Attachment: Certification Card

cc: File

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Joseph M Veglia

Name

Certification No. 13-5005

Expires on 03(13/18)

This certification No. 13-5005

Expires on 03(13/18)

This certification ver Issued by the Division of Occupational Safety and Health, as authorized by Sections 7 180 at 180, of the Business and Professions Code.

Renewal - Card Attached (Revised 10/24/2012)

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