2016 ADDITION

2013 ADDITION

2016 ADDITION

2017 ADDITION

2017 ADDITION

2013 ADDITION

2016 ADDITION

2016 ADDITION

2016 ADDITION

2015 ADDITION

2005 (R2010)

1999 ADDITION

2002 (R2010)

(CA AMENDED)

# CYPRESS ELEMENTARY SCHOOL

351 W. CYPRESS ST. COVINA, CA 91723

## COVID 19- COVINA VALLEY DISTRICT HVAC REPLACEMENT

## 100% CONSTRUCTION DOCUMENTS

11/07/2022

DLR GROUP PROJECT NUMBER: 75-22605-00

## **DSA APPLICATION #**

A# 03-122230

GENERAL NOTES, SYMBOLS AND ABBREVIATIONS .ARCHITECTURAL. ARCHITECTURAL SITE PLAN BUILDING ABCFG FLOOR PLANS A1.1A A1.1B BUILDING HIJ FLOOR PLANS A1.3 BUILDING ABCFG ROOF PLANS A1.3B BUILDING HIJ ROOF PLANS BUILDING ABCFG REFLECTED CEILING PLANS BUILDING HIJ REFLECTED CEILING PLANS .MECHANICAL. MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES TITLE 24 COMPLIANCE M0.3 TITLE 24 COMPLIANCE M0.4 TITLE 24 COMPLIANCE M0.5 TITLE 24 COMPLIANCE TITLE 24 COMPLIANCE TITLE 24 COMPLIANCE **OVERALL MECHANICAL SITE PLANS** M1.1A MECHANICAL FLOOR PLANS M1.2A MECHANICAL ROOF PLANS M1.2B MECHANICAL ROOF PLANS MECHANICAL FLOOR PLANS **CONTROLS DIAGRAMS CONTROLS DIAGRAMS** MECHANICAL DETAILS M7.2 MECHANICAL DETAILS MECHANICAL DETAILS

> MECHANICAL DETAILS MECHANICAL DETAILS

MECHANICAL SCHEDULES

MECHANICAL PLUMBING SITE PLAN

ROOF ELECTRICAL PLAN ELECTRICAL DIAGRAMS AND SCHEDULE ELECTRICAL DETAILS TOTAL: 34 SHEETS

#### **DESIGN ANALYSIS DATA**

LICENSE NUMBER

- RISK CATEGORY III - WIND DESIGN SPEED: V:110 MPH - WIND EXPOSURE CATEGORY: B (PER ASCE 7-16) 2. EARTHQUAKE DESIGN CRITERIA (CBC 1603A1.5) - SEISMIC DESIGN CATEGORY: D - SITE CLASS: D  $-S_1 = 0.603$  $-S_{MS} = 1.971$  $-S_{M1} = 1.039$  $-S_{DS} = 1.314$ - I<sub>P</sub> (IMPORTANCE FACTOR) = 1.00 - F<sub>P</sub> (CONTROLLING HOR. SEISMIC FORCE) = 2089.48 LBS 3. DESIGN LOAD BEARING VALUES OF SOILS (CBC 1603A1.6) - ALLOWABLE SOIL BEARING PRESSURE: 1,500 PSF

## - ALLOWABLE LATERAL BEARING PRESSURE: 100 PSF MIN.

M7.4



#### PROJECT DIRECTORY

OVINA VALLEY UNIFIED SCHOOL DISTRICT 518 E BADILLO STREET COVINA. CA 91723 CONTACT: BRIAN JOHNSON PH: 626.974.7000 BJOHNSON@C-VUSD.ORG

700 FLOWER ST. 22ND FLR.

LOS ANGELES, CA 90017

PH: 213.800.9400

CONTACT: JESSE MILLER

JMILLER@DLRGROUP.COM

700 FLOWER ST 22ND FLOOR LOS ANGELES, CA 90017 CONTACT: TONG FANG DONNA ZHAO PH: 213.444.0610 DZHAO@DLRGROUP.COM

> STRUCTURAL ENGINEER 700 FLOWER ST 22ND FLOOR LOS ANGELES, CA 90017 **CONTACT: DANIEL AHKIAM** PH: 213.800.9400 DAHKIAM@DLRGROUP.COM

## ELECTRICAL ENGINEER

LOS ANGELES, CA 90017 PH: 213.800.9400 NPATENA@DLRGROUP.COM

1. WIND DESIGN CRITERIA (CBC 1603A.1.4) - STRUCTURAL DESIGN PARAMETERS

700 FLOWER ST 22ND FLOOR CONTACT: NORMAN PATENA

SCOPE OF WORK LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

**APPLICABLE CODES** 

(PER 2019 CBC PART 2 CH 35)

NFPA 22

UL 464

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

**DSA GENERAL NOTES** 

FOR THE PROJECT

INDICATE AS SUCH.

ALL LOCAL ORDINANCES.

OR THE OWNER'S AGENT.

CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.COM

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR

(2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR

2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 TITLE CCR (2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)

(2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)

TITLE 19 CCR, PUBLIC SAFETY, STATE FIR MARSHAL REGULATIONS

2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR

(2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA REFERENCED STANDARDS CODE (CEBC), PART 12, TITLE 24 CCR

2016 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS

COMMERCIAL COOKING EQUIPMENT

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN), PART 11, TITLE 24 CCR

NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY

STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS

STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS

STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION

NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)

STANDARD FOR FIRE DOORS AND OTHER OPENINGS PROTECTIVE

STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED

IN SECTION 4-342, CALIFORNIA BUILDING ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).

7. ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

STANDARD FOR INSTALLATION OF SPRINKLERS SYSTEMS (CA AMENDED)

STANDARD FOR INSTALLATION OF SAND PIPE AND HOSE SYSTEMS (CA AMENDED)

STANDARD FOR INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION

STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)

STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS

STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF

STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS

STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES

AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES

1. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVED

WITH STANDING OTHER PROVISIONS OF THE PROJECT SPECIFICATIONS, COMPLY WITH ALL PROVISIONS OF THE CALIFORNIA BUILDING STANDARDS

2. CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY ALL THE FOLLOWING: ARCHITECT OR ENGINEER HAVING GENERAL RESPONSIBLE CHARGE OF

4. A DSA-CERTIFIED PROJECT INSPECTOR WITH CLASS 3 CERTIFICATION, EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE ARCHITECT AND BY

6. THE DSA-CERTIFIED PROJECT INSPECTOR AND DSA-ACCEPTED TESTING LAB SHALL BE EMPLOYED AND PAID BYTHE OWNER (DISTRICT) AND APPROVED BY ALL OF THE FOLLOWING: ARCHITEC OR ENGINEER HAVING GENERAL RESPONSIBLE CHARGE OF THE PROJECT; STRUCTURAL ENGINEER OF RECORD; AND

8. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS

ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION

CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED

ENGINEER AND APPROVED BY DSA. LIST DEFFERED SUBMITTAL ITEMS FOR THIS PROJECT. (IF THIS PROJECT HAS NO DEFFERED SUBMITTAL ITEMS, PLEASE

9. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN

10. FABRICATION AND INSTALLATION OF DEFFERED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTURAL SYSTEMS TO BE INSTALLED HAVE ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL

11. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH

SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION, AN ACCEPTANCE TEST IS A FUNCTIONAL

14. MECHANICAL SYSTEM ACCEPTANCE TEST MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1,

15. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OR RECORD

16. A LISTING OF CERTIFIED ATT CAN BE FOUND AT HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TESTING-TECHNICIAN-

17. THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR

12. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS. MECHANICAL

PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

13. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFICED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. 18. PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

CONSTRUCTION CHANGE DOCUMENT, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION IN ACCORDANCE WITH DSA IR A-6 AND

SECTION 4-338(b), PART 1, TITLE 24, CCR. SUBSTITUTIONS SHALL BE FOR ANY MATERIALS, SYSTEMS OR PRODUCT THAT WOULD OTHERWISE BE REGULATED

THE DIVISION OF THE STATE ARCHITECT. SHALL PROVIDE CONTINIOUS INSPECTION OF THE WORK. THE DUTIES OF THE PROJECT INSPECTOR ARE DEFINED

3. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS (ACCESSIBILITY, STRUCTURAL ENGINEER, AND FIRE/LIFE/SAFETY) SHALL BE CONSIDERED AS A

5. A DSA-ACCEPTED TESTING LAB, EMPLOYED BY THE DISTRICT (OWNER), SHALL CONDUCT ALL REQUIRED TESTS AND INSPECTIONS OF THE WORK.

ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR), SECTION 4-338, FOR ALL ADDENDUM AND CONSTRUCTION CHANGE DOCUMENTS.

THE PROJECT, AND STRUCTURAL ENGINEER OF RECORD OR DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE).

DIVISION OF THE STATE ARCHITECT (DSA). THE INSPECTOR OF RECORD FOR THIS PROJECT SHALL BE CLASS 3 OR BETTER

TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR

BY THE DIVISION OF THE STATE ARCHITECT (DSA), AS REQUIRED BY SECTION 4-338(b), PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR). NOT

(2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)

(2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS)

2019 CAFILORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR

2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR

2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR

2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR

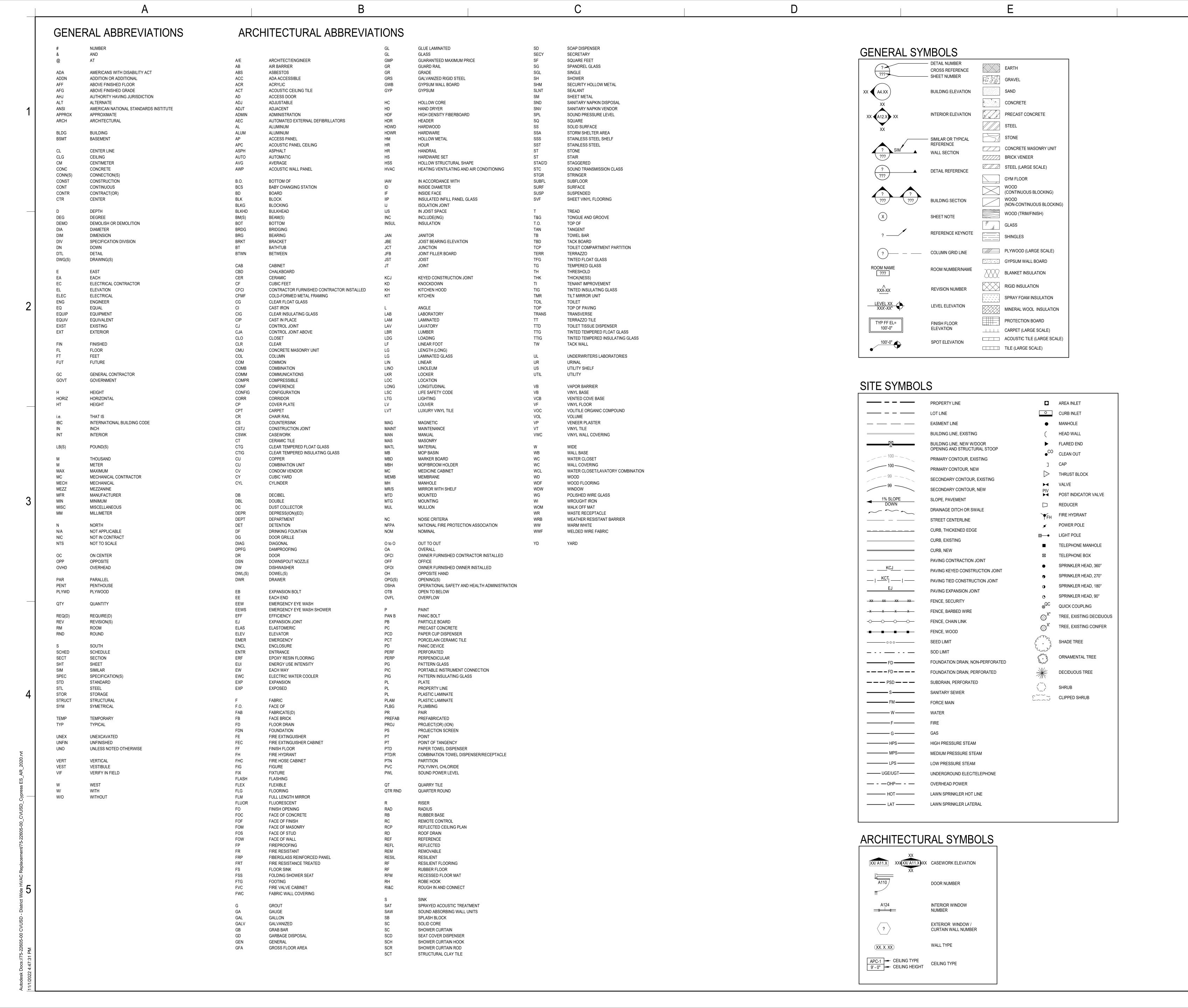
(Application No. <u>03-122230</u> \_\_\_\_ File No. <u>19-25</u>\_ HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR: 1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND

2) COORDINATION WITH MY PLANS AND SPECIFICATIONS. AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT. THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS

RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317(b)) ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET FOR EACH DISCIPLINE (SEE SHEET INDEX FOR LIST OF DISCIPLINES) THIS DRAWING OR PAGE

ARE IN GENERAL CONFORMANCE WITH ARE IN GENERAL CONFORMANCE WITH  $\stackrel{\textstyle o}{}$  The Project Design, THE PROJECT DESIGN INTENT, ☐ HAVE BEEN COORDINATED WITH THE  $\stackrel{\textstyle o}{}$  Project plans and specifications. ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE JESSE MILLER PRINT NAME C-32306 10/31/2023

### HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS. ARCHITECT OR ENGINEER DELEGATED EXPIRATION DATE LICENSE NUMBER EXPIRATION DATE



#### **GENERAL NOTES**

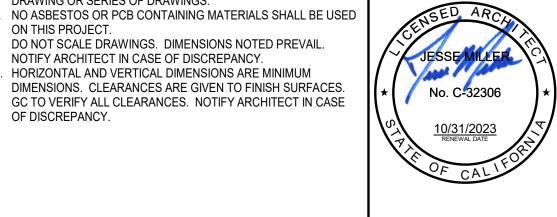
A. GENERAL NOTES APPLY TO ALL SHEETS. B. DIMENSIONS ARE ACTUAL AND ARE TO FACE OF STUDS, FACE OF CONCRETE WALLS, FACE OF CMU WALLS, FACE OF FRAMES OR CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE. : INCLUDE ALL OWNER-FURNISHED AND INSTALLED ITEMS AND OWNER-FURNISHED AND CONTRACTOR-INSTALLED ITEMS IN THE CONSTRUCTION SCHEDULE, AND SHALL COORDINATE WITH THE OWNER TO ACCOMMODATE THESE ITEMS. D. COORDINATE ALL MECHANICAL CHASE SIZES WITH THE

MECHANICAL CONTRACTOR. SEE FLOOR PLANS FOR LOCATION OF (E) WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION. ALL WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE. F. ALL PENETRATIONS THROUGH WALLS SHALL BE SEALED WITH PENETRATION FIRE STOPPING MATERIAL AS REQUIRED TO ACHIEVE THE RESPECTIVE FIRE-RESISTANCE RATING AND SMOKE STOPPAGE. SEE SPECIFICATION SECTION 078413. G. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS THE SIZE AND LOCATION OF EQUIPMENT PADS SHOWN ON PLANS. H. CONSTRUCTION DOCUMENTS ARE COMPLEMENTARY. SEE DRAWING FOR QUANTITIES AND LOCATION OF WORK. SEE SPECIFICATIONS FOR QUALITIES AND CONDITIONS OF WORK WORK: ALL ASPECTS OF THE WORK AND ITEMS NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED AND INDICATED IN THE CONTRACTOR'S BID. . GENERAL SHEET NOTES ONLY APPLY TO PARTICULAR DRAWING OR SERIES OF DRAWINGS. K. NO ASBESTOS OR PCB CONTAINING MATERIALS SHALL BE USED ON THIS PROJECT. . DO NOT SCALE DRAWINGS. DIMENSIONS NOTED PREVAIL.

NOTIFY ARCHITECT IN CASE OF DISCREPANCY.

OF DISCREPANCY.

M. HORIZONTAL AND VERTICAL DIMENSIONS ARE MINIMUM



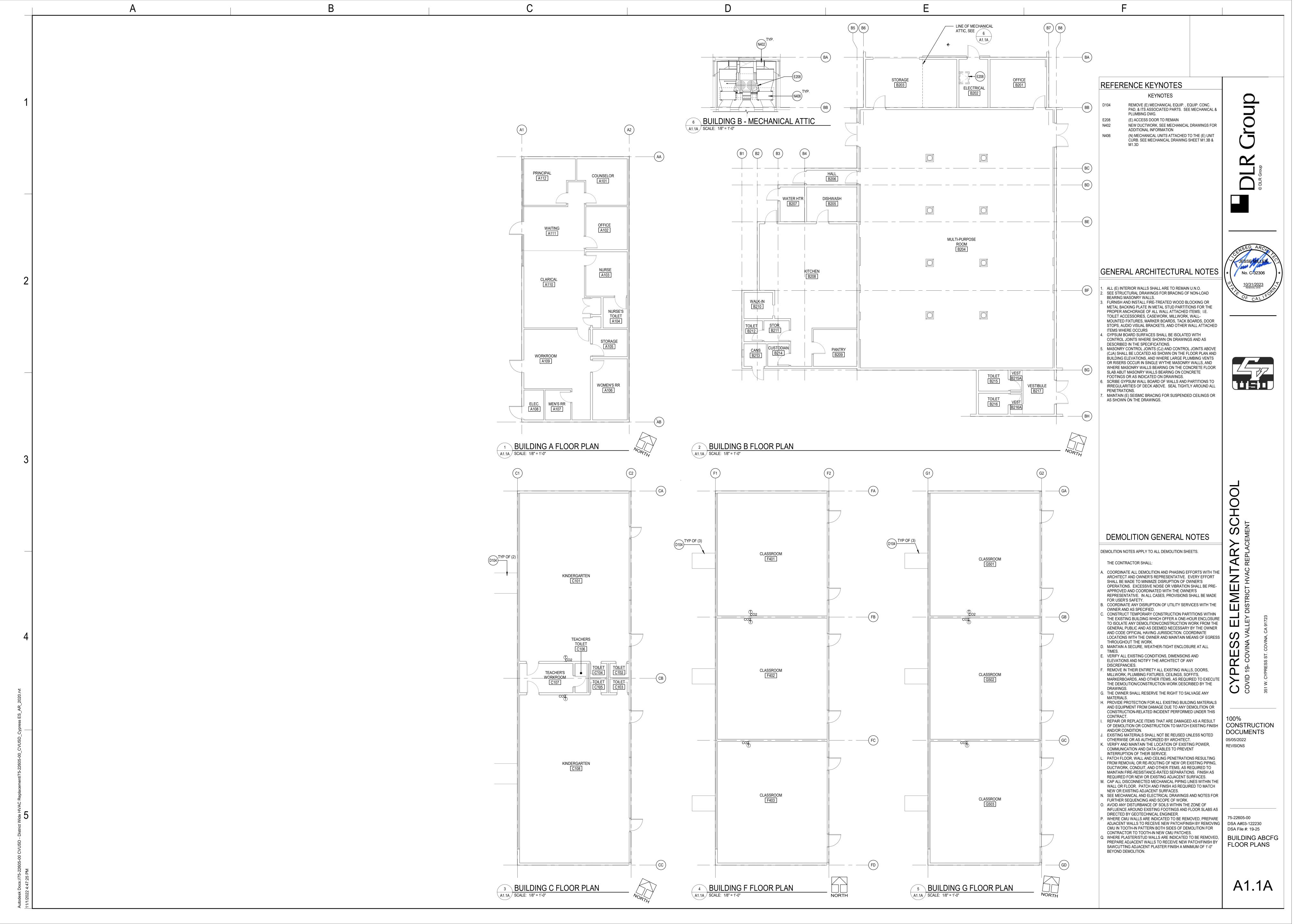


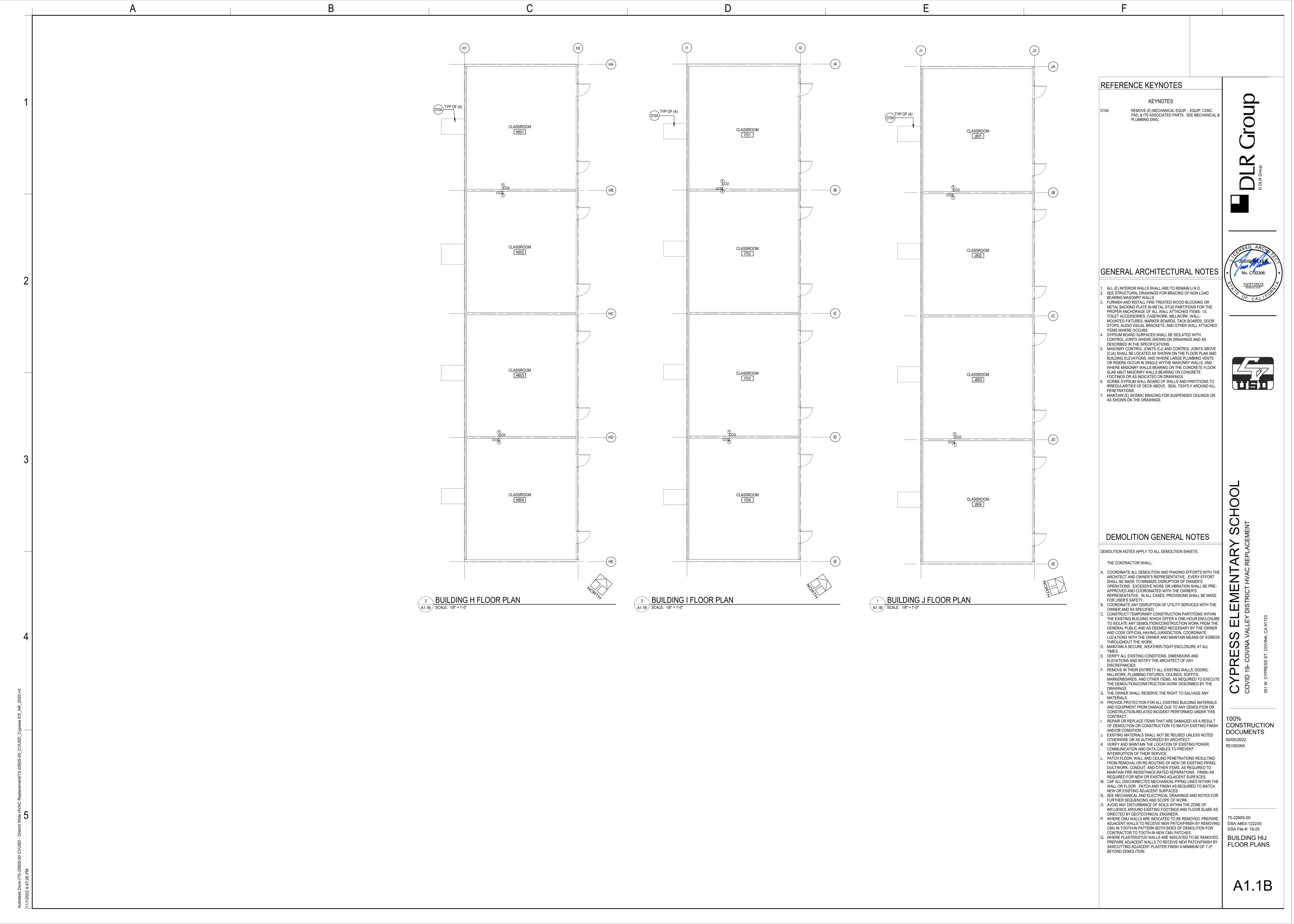
CONSTRUCTION **DOCUMENTS** 05/05/2022 REVISIONS

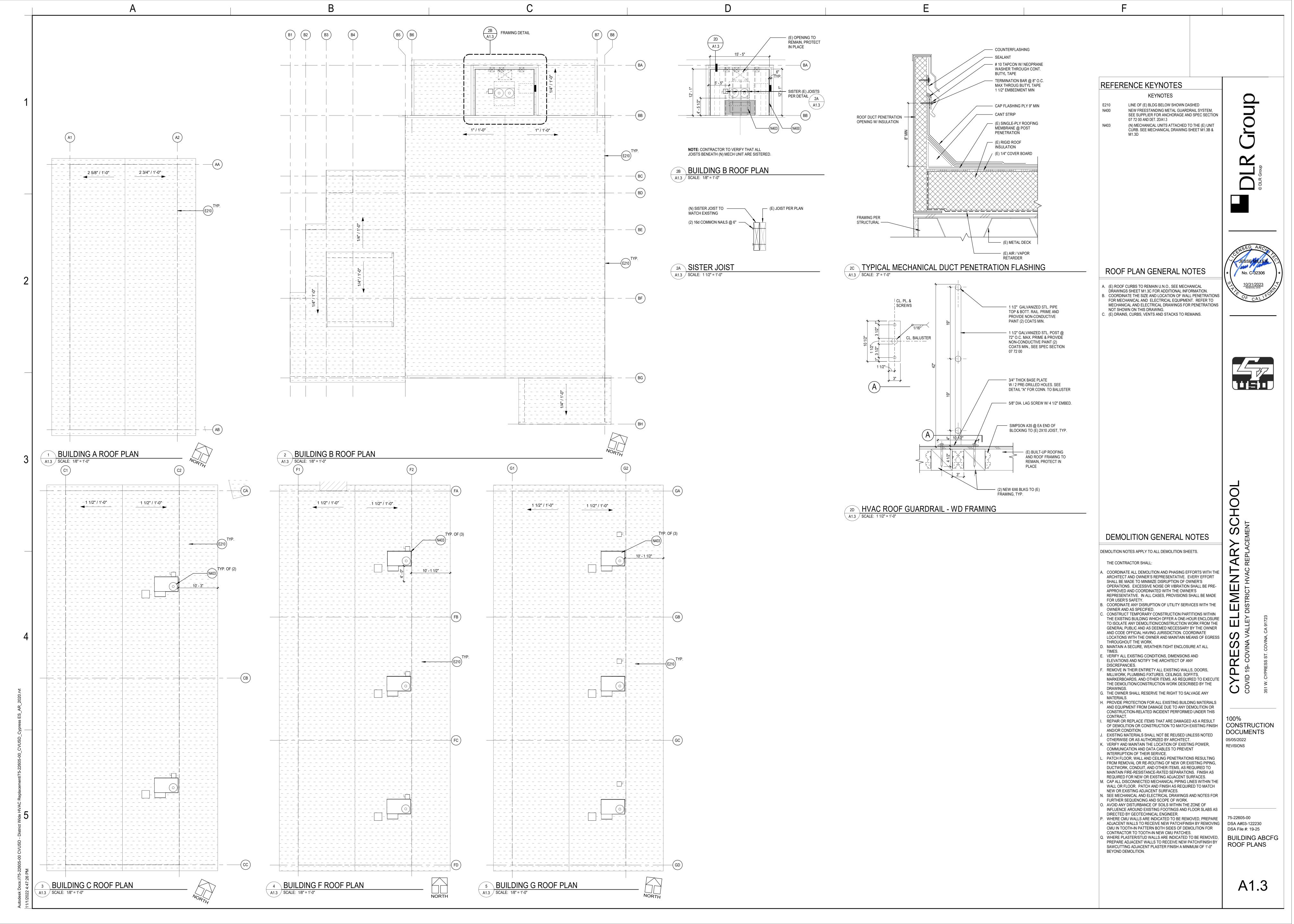
75-22605-00 DSA A#03-122230 DSA File #: 19-25 **GENERAL NOTES** SYMBOLS AND **ABBREVIATIONS** 

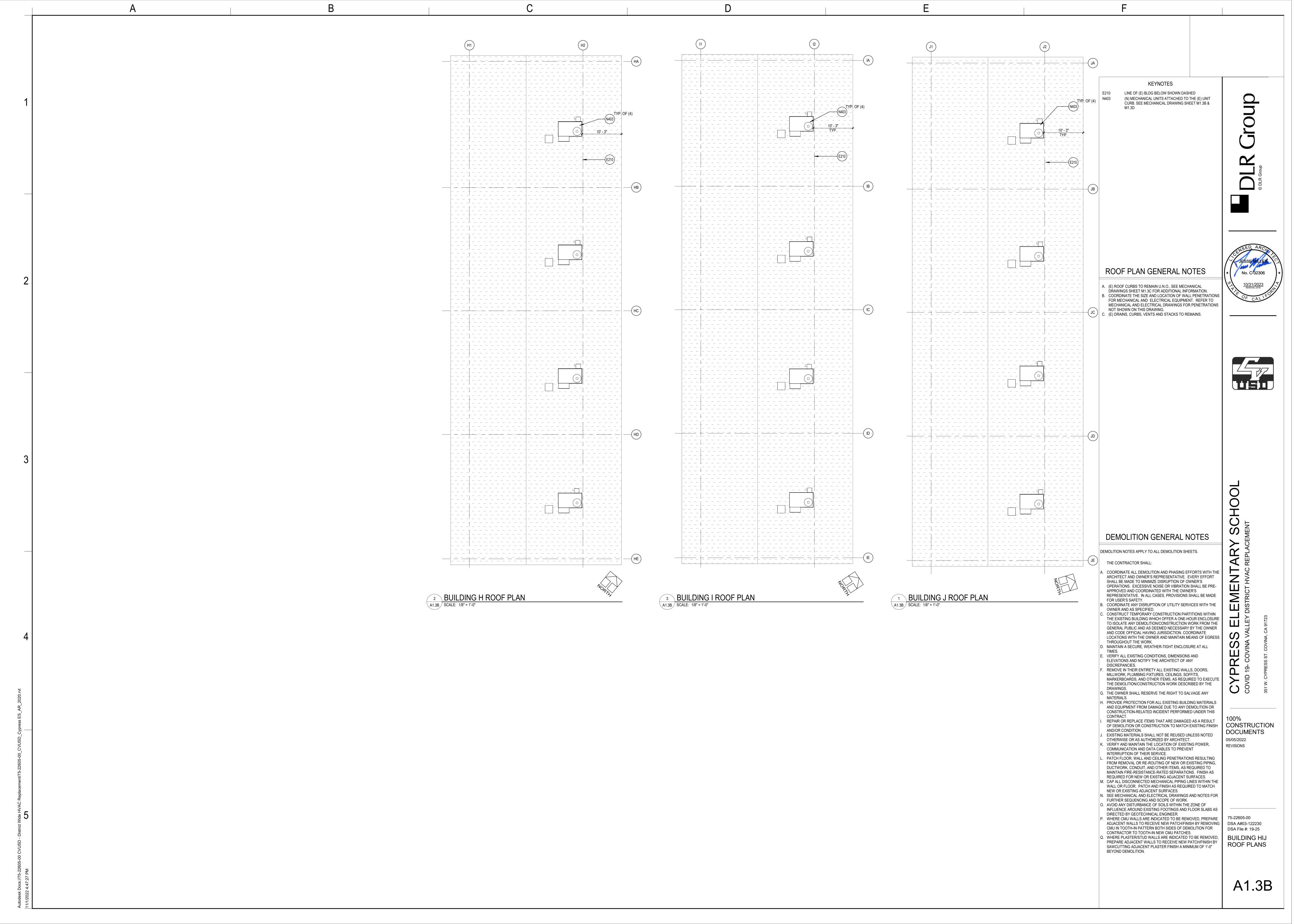
G1.

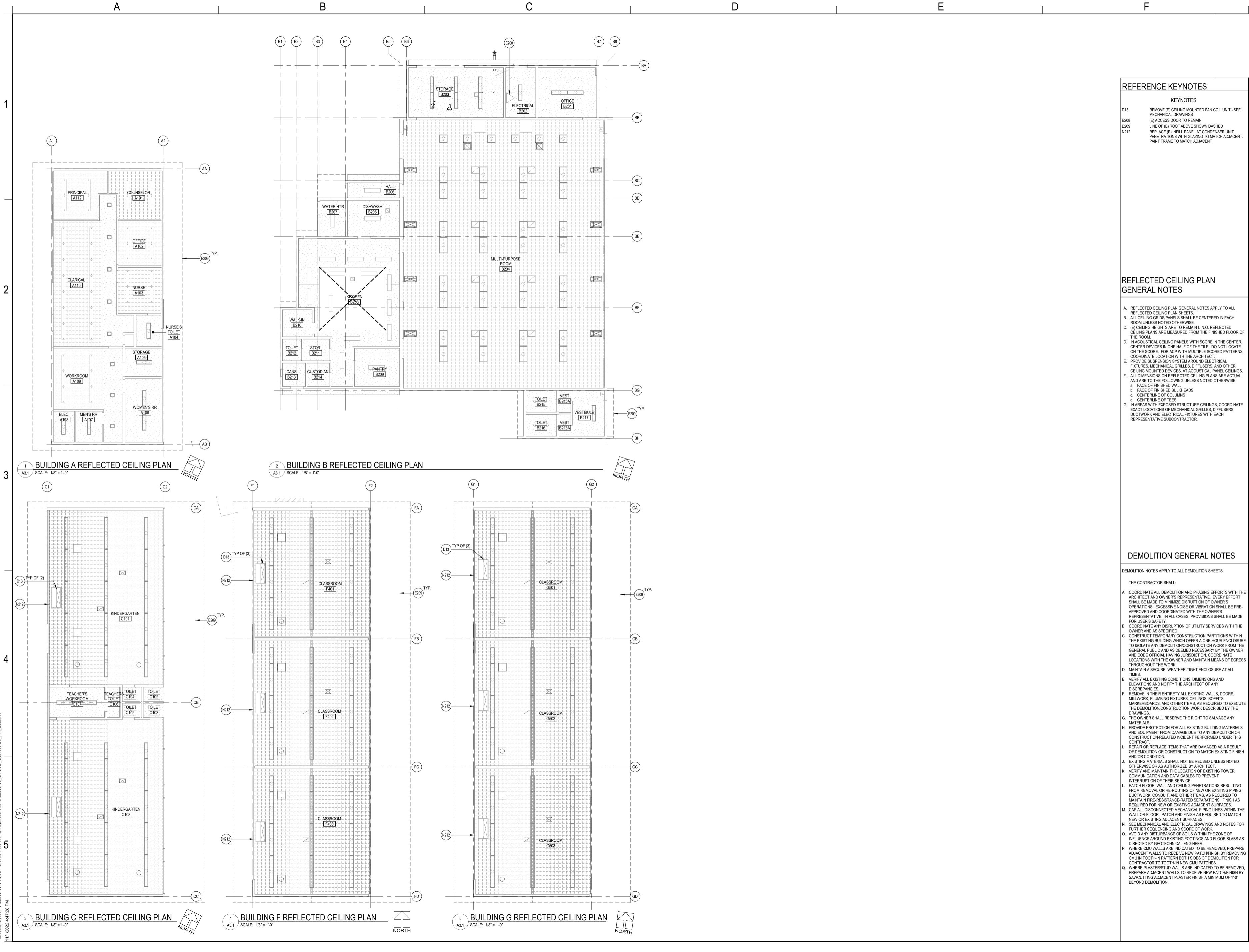












REMOVE (E) CEILING MOUNTED FAN COIL UNIT - SEE

LINE OF (E) ROOF ABOVE SHOWN DASHED REPLACE (E) INFILL PANEL AT CONDENSER UNIT PENETRATIONS WITH GLAZING TO MATCH ADJACENT.





- A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH
- E. (E) CEILING HEIGHTS ARE TO REMAIN U.N.O. REFLECTED CÉILING PLANS ARE MEASURED FROM THE FINISHED FLOOR OF . IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER,
- CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL
- CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS. F. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
- G. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH



DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

- A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S
- B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE . CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER
- D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL
- E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY
- MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE
- H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT
- EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT. K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT
- MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES. M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR
- INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS P. WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING DSA A#03-122230 CMU IN TOOTH-IN PATTERN BOTH SIDES OF DEMOLITION FOR CONTRACTOR TO TOOTH-IN NEW CMU PATCHES. Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED

A3.1

CONSTRUCTION

DOCUMENTS

05/05/2022

75-22605-00

DSA File #: 19-25

REFLECTED

BUILDING ABCFG

**CEILING PLANS** 

REVISIONS



REMOVE (E) CEILING MOUNTED FAN COIL UNIT - SEE

LINE OF (E) ROOF ABOVE SHOWN DASHED REPLACE (E) INFILL PANEL AT CONDENSER UNIT



- A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.

  B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH
- . IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS,
- COORDINATE LOCATION WITH THE ARCHITECT. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER
- G. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.



## DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE

B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE . CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS

D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND

ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY

MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY

CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH CONSTRUCTION

. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT. C. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING,

REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES. M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK. O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF

INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS P. WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING DSA A#03-122230 CMU IN TOOTH-IN PATTERN BOTH SIDES OF DEMOLITION FOR CONTRACTOR TO TOOTH-IN NEW CMU PATCHES. Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0"

75-22605-00 DSA File #: 19-25 BUILDING HIJ REFLECTED

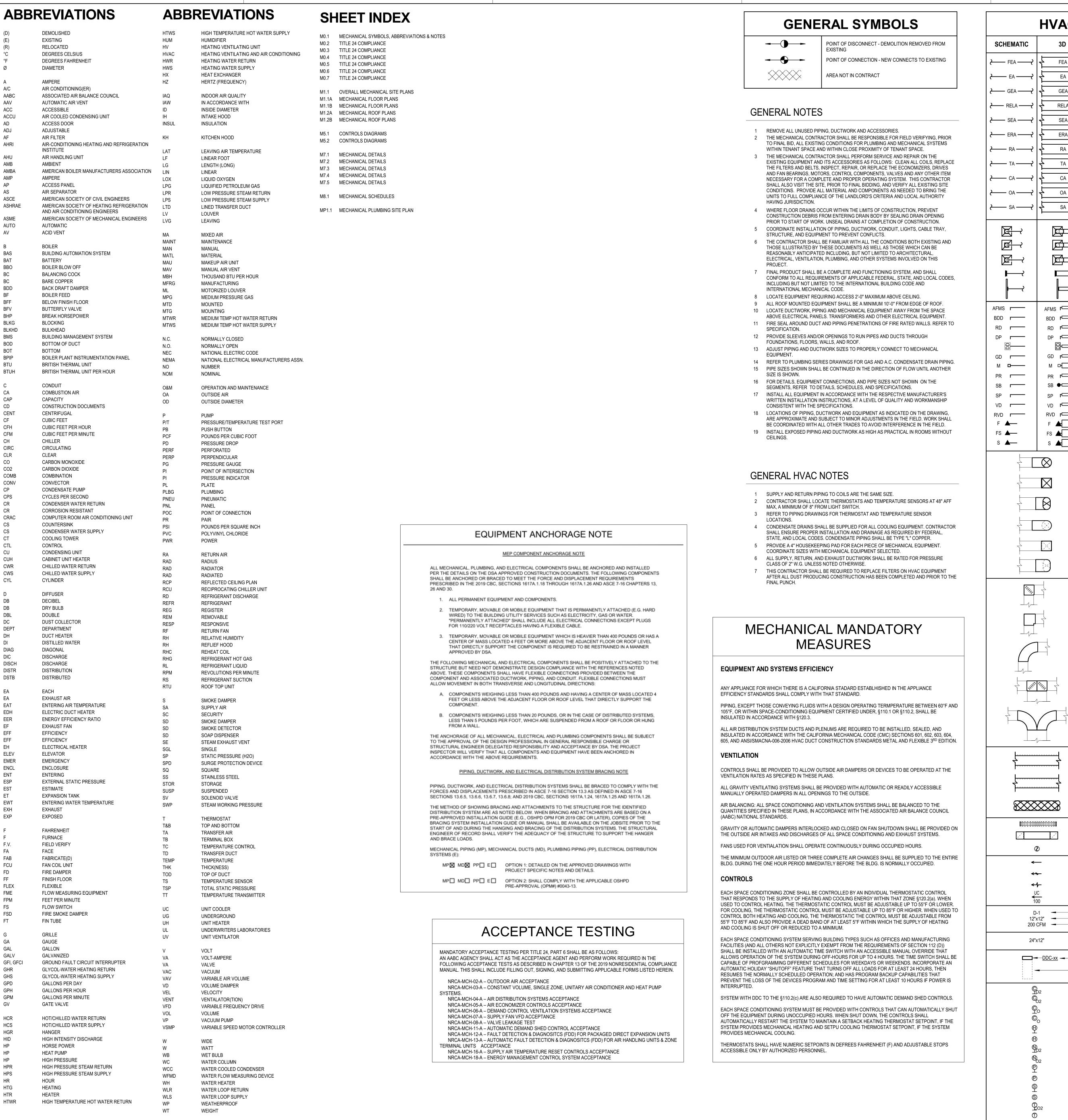
CEILING PLANS

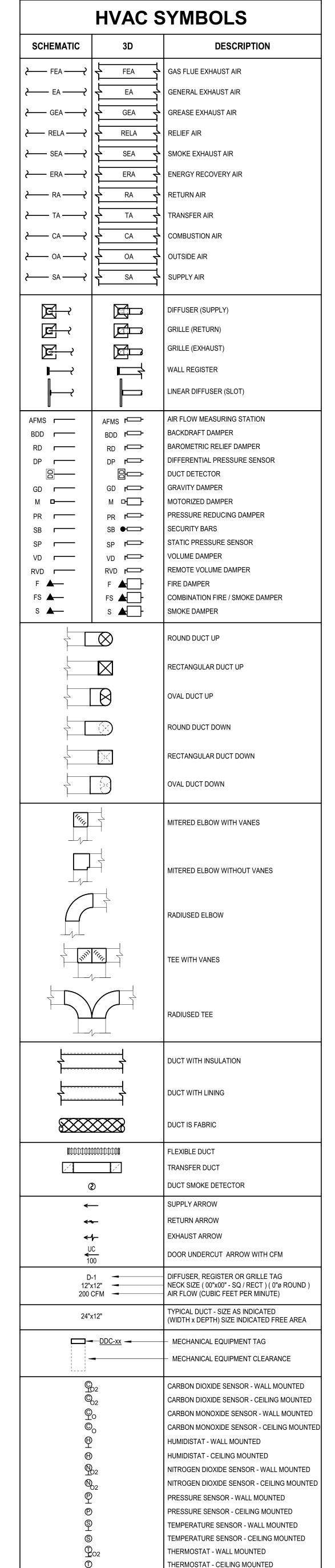
DOCUMENTS

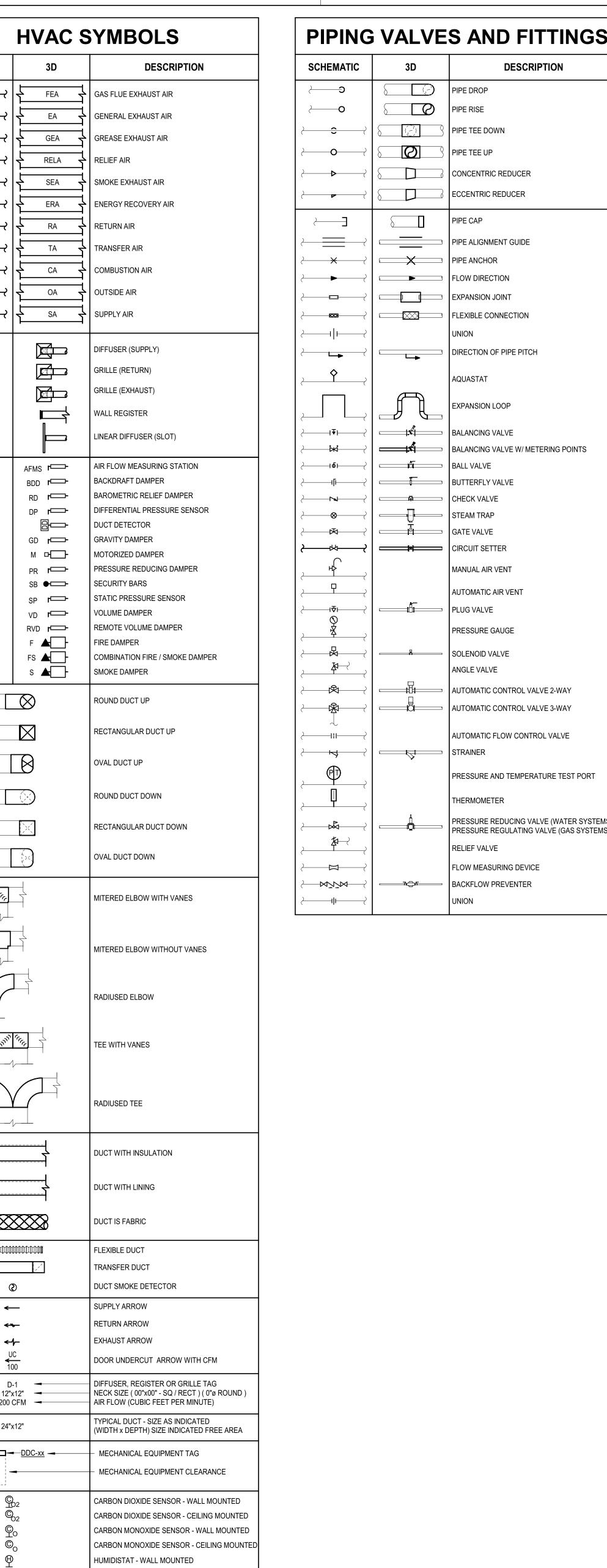
05/05/2022

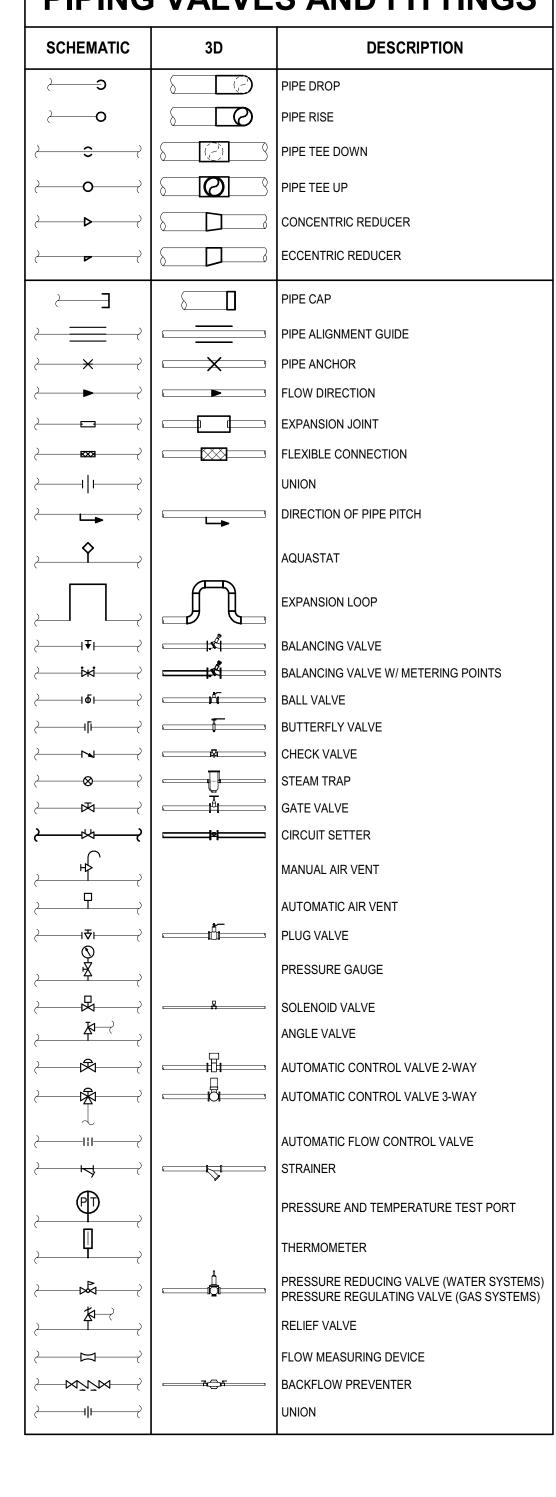
REVISIONS

A3.1B









75-22605-00 **MECHANICAL** SYMBOLS,

\* NOTE \*

APPLICABLE TO ALL OTHER SHEETS IN

THE SYMBOLS AND ABBREVIATIONS

SHOWN ON THIS SHEET MAY OR MAY

NOT BE APPLICABLE IN THIS SET OF

DRAWINGS.

ALL NOTES ON THIS SHEET ARE

ABBREVIATIONS &

CONSTRUCTION

**DOCUMENTS** 

11/07/2022

REVISIONS

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Provider: Energysoft

Report Generated: 2022-08-01 11:44:41

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

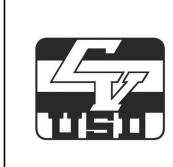
Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

DLR Group





ress Elementary School

100% CONSTRUCTION DOCUMENTS 11/07/2022 REVISIONS

75-22605-00

TITLE 24 COMPLIANCE

Registration Provider: Energysoft

Report Generated: 2022-08-01 11:44:41

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Provider: Energysoft

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M0.2

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75-22605-00 TITLE 24 COMPLIANCE

M0.3

Mechanical Systems			
NRCC-MCH-E			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	CVUSD Cypress	Report Page:	(Page 10 of 47)
Project Address:	351 Cypress St	Date Prepared:	8/1/2022

System Name:	RTU-H2	Econor	nizer:1	NA: <=54 kBtu/h cooling	Econom Contro		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
Fan Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop	Adjustment - Table 140.4-B
Item Tag	Fan Functio	on	Qty	(CFM)	All llow	НР	Unit <sup>2</sup>	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	1200	1200		ВНР	0.91	NA.	NA
Total Syste	m Design Supply A	Airflow (CF	M):	1200	Total System Design (B)HP:			0.91	Maximum System Fan Power (B)HP:	
System Name:	RTU-H3	Econor	mizer:1	NA: <=54 kBtu/h cooling	Econom Contro		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
Fan Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop	Adjustment - Table 140.4-B
Item Tag	Fan Functio	on	Qty	(CFM)	HP Unit <sup>2</sup>		HP Unit <sup>2</sup> Design HP	Device	Design Airflow through Device (CFM)	
SF	Supply		1	1200		I	ВНР	0.91	NA	NA
Total Syste	m Design Supply A	Airflow (CF	M):	1200	Total Sy	ystem (B)HP:		0.91	Maximum System Fan Power (B)HP:	
System Name:	RTU-H4	Econor	mizer:1	NA: <=54 kBtu/h cooling	Econom Contro		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02	A v	03	04			05	06	07	08
Fan Name or	40 Acres 2004			Maximum Design Supply	Airflow				Fan Power Pressure Drop	Adjustment - Table 140.4-B
Item Tag	Fan Function	on	Qty	(CFM)	Airiow	НР	Unit <sup>2</sup>	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	1200		E	ВНР	0.91	NA	NA
Total Syste	m Design Supply A	Airflow (CF	M):	1200	Total Sy	ystem (B)HP:	Design	0.91	Maximum System Fan Power (B)HP:	

gistration Number:	Registration Date/Time:	Registration Provider: Energysoft
Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Generated: 2022-08-01 11:44:41

STATE OF CALIFORNIA  Mechanical Systems			
wiechanicai Systems			
NRCC-MCH-E			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	CVUSD Cypress	Report Page:	(Page 13 of 47)
Project Address:	351 Cypress St	Date Prepared:	8/1/2022

System Name:	RTU-J3	Econom	nizer:1	NA: <=54 kBtu/h cooling	Econom Contro		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
Fan Name av				Maximum Dasign Cumply	Airflour				Fan Power Pressure Drop	Adjustment - Table 140.4-I
Fan Name or Item Tag	Fan Functi	on	Qty	Maximum Design Supply (CFM)	Alfilow	HP	Unit <sup>2</sup>	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	1200	1200		ЗНР	0.91	NA	NA
Total System Design Supply Airflow (CFM): 1200		1200	Total System Design (B)HP:		0.91	Maximum System Fan Power (B)HP:				
System Name:	RTU-J4	Econom	nizer:1	NA: <=54 kBtu/h cooling	Econom Contro	2000	Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
F N		A 91		Mariana Barias Const.					Fan Power Pressure Drop	Adjustment - Table 140.4-I
Fan Name or Item Tag	Fan Functi	on	Qty	Maximum Design Supply Airflow (CFM)		HP	Unit <sup>2</sup>	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply	ñ	1	1200		E	ЗНР	0.91	NA	NA
Total Systen	n Design Supply	Airflow (CFN	M):	1200	Total Sy	/stem l (B)HP:	Design	0.91	Maximum System Fan Power (B)HP:	

 $<sup>^1</sup>$  FOOTNOTES: Computer room economizers must meet requirements of  $\underline{§140.9(a)}$  and will be documented on the NRCC-PRC-E document.

<sup>&</sup>lt;sup>2</sup> The unit used for HP must be consistent for all fans within a system.

Registration Number:	Registration Date/Time:	Registration Provider: Energyso
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Generated: 2022-08-01 11:44:

CALIFORNIA ENERGY COMMISSION

NRCC-MCH-E

Project Name:										(Page 16 of 47
Project Address	s: 351 Cypress St Date Prepared:									8/1/2022
I. VENTILATIO	ON AND INI	DOOR AIR QUALITY					H 20			
occupancies. F	or alteration	strate compliance with m s, only ventialtion systems nd airflows may be shown	s being altered	within the so	ope of the	permit app	lication ne	ed to be documented in t	[] 이 10~~ [이 10] [] [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	
01		Check the box if the pro	ject is showing	g ventilation o	calculations	on the pla	ns, or attac	ching the calculations ins	tead of completing this	table.
02	×	Check this box if the pro	oject included	Nonresidenti	al or Hotel/	Motel space	ces			
02		Check this box if the pro	oject included	new or altere	d high-rise	residential	dwelling u	nits.		
03		Check the box if the pro	ject is using n	atural ventila	tion in any i	nonresider	tial or hote	el/motel spaces to meet r	equired ventilation rate	es per <u>§120.1(c)2</u> .
Vonresidentia	and Hotel/	Motel Ventilation System	ns					2)		
	04			05		100		06	07	
			Custom Desi	04 6544					Air Filtration per §120.1(c) and §141.0(	
System Name		FCU/CU-B1	System Design OA CFM Airflow <sup>1</sup>		1500		Design Air CFM	0	Provided per §120.1(c) (NR and Hotel/Motel))	
08	80	09	10	11	12	13	14	15	16	
20000		Mechanical Ventila	tion Required	per §120.1(c)	3 <sup>3</sup>		Exh.	Vent per §120.1(c)4		new .
Space Name ot item Tag	0	ccupancy Type <sup>4</sup>		# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per <u>§120.1(d)3</u> <u>§120.1(d)5</u> , and <u>§120.1(e)3</u> <sup>6</sup>	
MPR	Acc	-amble multius	3536		100	1500	0	0	DCV	Provided per §120.1(d)4
WPK	ASS	sembly- multiuse	3536		100	1500	0	Ü	Occ Sensor	NA: Not required space type
17	Total Systen	Required Min OA CFM		1500 18 Ventilation for this			Ventilation for this	System Complies?	Yes	
	04	1		05				06	3	07
			Sustam Dasi	an OA CENA		Contain	D!		Air Filtration per §120	0.1(c) and §141.0(b)2
System Name		RTU-C1	System Desi Airfl		225		Design Air CFM	0		120.1(c) (NR and 'Motel))
					100	100				

tration Number:	Registration Date/Time:	Registration Provider: Energysoft
uilding Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Generated: 2022-08-01 11:44:41

STATE OF CALIFORNIA  Mechanical Systems			
NRCC-MCH-E			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	CVUSD Cypress	Report Page:	(Page 11 of 47)
Project Address:	351 Cypress St	Date Prepared:	8/1/2022

System Name:	RTU-I1	Econom	nizer:1	NA: <=54 kBtu/h cooling	Economi Control	300 B 1 B 1	Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04	i i		05	06	07	08
Fan Name or		ti it		Maximum Design Supply	Airflow				Fan Power Pressure Drop	Adjustment - Table 140.4-I
Item Tag	Fan Functio	on	Qty	(CFM)	Airilow	HP	Unit <sup>2</sup>	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	1200		E	ВНР	0.91	NA	NA
Total System	n Design Supply A	Airflow (CFI	M):	1200	Total Sy:	stem I B)HP:	Design	0.91	Maximum System Fan Power (B)HP:	
System Name:	RTU-I2	Econom	nizer:1	NA: <=54 kBtu/h cooling	Economi Control	77.7	Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
Fan Name or				Maximum Dasign Supply	Airflow				Fan Power Pressure Drop	Adjustment - Table 140.4-I
Item Tag	Fan Function	on	Qty	Maximum Design Supply Airflow (CFM)		HP Unit <sup>2</sup> Design		Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	1200		E	ВНР	0.91	NA	NA
Total Systen	Design Supply	Airflow (CFI	M):	1200	Total Sy:	stem I B)HP:	Design	0.91	Maximum System Fan Power (B)HP:	
System Name:	RTU-I3	Econom	nizer:1	NA: <=54 kBtu/h cooling	Economi Control		Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
Fan Name or	A17 145-14 154-14	20	les estil	Maximum Design Supply	Airflow		S		Fan Power Pressure Drop	Adjustment - Table 140.4-E
Item Tag	Fan Function	on	Qty	(CFM)	AirtioW		Unit <sup>2</sup>	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply	ii. (3)	1	1200		E	ВНР	0.91	NA	NA
Total Systen	n Design Supply A	Airflow (CFI	M):	1200	Total Sy:	stem I B)HP:	Design	0.91	Maximum System Fan Power (B)HP:	

Registration Number:	Registration Date/Time:	Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Generated: 2022-08-01 11:44:41

Mechanical Systems		
NRCC-MCH-E		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	CVUSD Cypress Report Page:	(Page 14 of 47)
Project Address:	351 Cypress St Date Prepared:	8/1/2022

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c) <sup>1</sup> , §120.2(a)or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
FCU/CU-B1	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-C1	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-C2	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-G1	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-G2	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-G3	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-F1	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-F2	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-F3	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-H1	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-H2	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-H3	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

Registration Number:	Registration Date/Time:	Registration Provider: Energyso
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Generated: 2022-08-01 11:44:4

Mechanical Systems		
NRCC-MCH-E		CALIFORNIA ENERGY COMMISSIO
CERTIFICATE OF COMPLIANCE		NRCC-MCH
Project Name:	CVUSD Cypress Report Page:	(Page 17 of 4
Project Address:	351 Cypress St Date Prepared:	8/1/202

	Mechanical Ventilation Required per §120.1(c)3 3			3 <sup>3</sup>		Exh. \	/ent per §120.1(c)4	51	
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)		# of people <sup>5</sup>	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 <sup>6</sup>	
Classroom	Lecture/ postsecondary classroom	1240		15	15 225 0 0		0	DCV	Provided per §120.1(d)4
Classicolli	Lecture/ postsecondary classicom	1240		13	223	U	9	Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM	e.	St		225	18	Ventilation for this	System Complies?	Yes
	04	04 05				06		07	
			System Design OA CFM		Custom	Design		Air Filtration per §120.1(c) and §141.0(b	
System Name	RTU-C2	Airfl		225		Air CFM	0	Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
	Mechanical Ventila	tion Required	per <u>§120.1(c)</u>	3 <sup>3</sup>		Exh. \	Vent per §120.1(c)4		
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	50% OF 90% TO A STATE OF STATE	trols per <u>§120.1(d)3</u> , nd <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom	1240		15	225	0	0	DCV	Provided per §120.1(d)4
Classicolli	Lecture/ postsecondary classicom	1240		15	223	0	O	Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM	-	Vi		225	18	Ventilation for this	System Complies?	Yes
	04 05					06		07	
Ac 11 1-22	STOCK TOWN DESCRIPTION OF THE STOCK	System Desi	ign OA CEM	8 0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	System	Design	133	Air Filtration per §12	0.1(c) and §141.0(b)
System Name	RTU-G1	Airfl	_	225		Air CFM	0		120.1(c) (NR and 'Motel))
08	09	10	11	12	13	14	15		16

Registration Number:	Registration Date/Time:	Registration Provider: Energ
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	Schema Version: rev 20200601	

Project Name:					USD Cypres	1 11111				(Page 12 of 47
Project Address:				35	51 Cypress S	t Date I	Prepared:			8/1/202
H. FAN SYSTEM	IS & AIR ECONO	MIZERS								χ
System Name:	RTU-I4	U-I4 Economizer:1		NA: <=54 kBtu/h cooling	Econom Contro	000000000000000000000000000000000000000	Designe	ed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
Fan Name or	3	÷		Maximum Design Supply	Airflow				Fan Power Pressure Drop	Adjustment - Table 140.4-I
Fan Name or Item Tag	Fan Functio	on	Qty	(CFM)	HP U		Unit <sup>2</sup>	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	1200		НР	0.91	NA	NA	
Total Systen	n Design Supply A	Airflow (CF	M):	1200	The second second second	Total System Design (B)HP:		0.91	Maximum System Fan Power (B)HP:	
System Name:	RTU-J1	Econor	nizer:1	NA: <=54 kBtu/h cooling	Econom Contro	50000000	Designe	d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04			05	06	07	08
Fan Name or				Maximum Design Supply	Airflow				Fan Power Pressure Drop	Adjustment - Table 140.4-
Item Tag	Fan Functio	on	Qty	(CFM)	All flow	HP	Unit <sup>2</sup>	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	1200		В	НР	0.91	NA.	NA
Total System	n Design Supply A	Airflow (CF	M):	1200	Total S	ystem [ (B)HP:	Design	0.91	Maximum System Fan Power (B)HP:	
System Name:	RTU-I2	Econor	nizer:1	NA: <=54 kBtu/h cooling	Econom Contro	9220	Designe	ed per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02	^	03	04			05	06	07	08
Fan Name or				Maximum Design Supply	Airflow		900	10 mm - 40 - 10 20 20	Fan Power Pressure Drop	Adjustment - Table 140.4-
Item Tag	Fan Functio	on	Qty	(CFM)	AITIOW	HP	Unit <sup>2</sup>	Design HP	Device	Design Airflow through Device (CFM)
SF	Supply		1	1200		В	НР	0.91	NA	NA
240000000	randomination ,			Parate Control of	<u> </u>		apanelli .	Authorities		

STATE OF CALIFORNIA

**Mechanical Systems** NRCC-MCH-E
CERTIFICATE OF COMPLIANCE

Total System Design Supply Airflow (CFM):

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance		ersion: 2019.1.003 /ersion: rev 20200601	Report Gen	nerated: 2022-08-01 11:44:41
	Schema v	ersion. Tev 20200001		
Mechanical Systems			CALIFO	RNIA ENERGY COMMISSION
Mechanical Systems NRCC-MCH-E			CALIFO	RNIA ENERGY COMMISSION NRCC-MCH-I
Mechanical Systems  NRCC-MCH-E  CERTIFICATE OF COMPLIANCE	CVUSD Cypress	Report Page:	CALIFO	NRCC-MCH-I
Mechanical Systems  NRCC-MCH-E  CERTIFICATE OF COMPLIANCE  Project Name:	17.70	Report Page: Date Prepared:	CALIFO	White substitution of
Mechanical Systems NRCC-MCH-E CERTIFICATE OF COMPLIANCE Project Name: Project Address:	17.70	11(4)	CALIFO	NRCC-MCH-I (Page 15 of 47
Mechanical Systems  NRCC-MCH-E  CERTIFICATE OF COMPLIANCE  Project Name:	17.70	11(4)	CALIFO	NRCC-MCH-I (Page 15 of 47

Total System Design (B)HP:

Registration Date/Time:

Maximum System Fan Power (B)HP:

Registration Provider: Energysoft

RTU-H4	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-I1	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-I2	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-I3	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-I4	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-J1	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-I2	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-J3	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-J4	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

·						1-01-01
<sup>1</sup> FOOTNOTES: Gravity gas wal	l heaters, gravity floor heate	rs, gravity room heaters, no	n-central electric heate	ers, fireplaces or decorative gas ap	pliances, wood s	stoves are not required
have setback thermostats.						
*Notes: Controls with a * requ	uire a note in the space below	v explaining how complianc	e is achieved. EX: syste	em 1: SA Temp Reset: Exempt beca	use zones comp	liant 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: 2019.1.003 Schema Version: rev 20200601	Report Generated: 2022-08-01 11:44:41

STATE OF CALIFORNIA  Mechanical Systems			
NRCC-MCH-E			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	CVUSD Cypress	Report Page:	(Page 18 of 47)
Project Address:	351 Cypress St	Date Prepared:	8/1/2022

	Mechanical Ventila	tion Required	per §120.1(c)	3 <sup>3</sup>		Exh. \	ent per §120.1(c)4		
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM		strols per <u>§120.1(d)3</u> , nd <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom	905		15	225	0	0	DCV	Provided per §120.1(d)4
Classicolli	Lecture/ postsecondary classicom	903		13	223		9	Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				225	18	Ventilation for this	System Complies?	Yes
	04		05				06		07
		System Desig	TO OA CEM		System	Docian		Air Filtration per §12	0.1(c) and §141.0(b)2
System Name	RTU-G2	Airflo	And Bernell Herry Associa	225	Transfer		0		120.1(c) (NR and /Motel))
08	09	10	11	12	13	14	15	3	16
	Mechanical Ventila	tion Required	per <u>§120.1(c)</u>	3 <sup>3</sup>		Exh. \	/ent per §120.1(c)4		
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM		ntrols per <u>§120.1(d)3</u> , nd <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom	895		15	225	0	0	DCV	Provided per §120.1(d)4
Classicom	Lecture/ postsecondary classroom	893		15	223	U	Ü	Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM	-			225	18	Ventilation for this	System Complies?	Yes
	04		05				06		07
100 101 1070		System Desig	gn OA CEM		System	Design		Air Filtration per §120.1(c) and §141.0(b)  Provided per §120.1(c) (NR and Hotel/Motel))	
System Name	RTU-G3	Airflo		225	Transfer		0		
08	09	10	11	12	13	14	15		16

Registration Number:	Regis
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Repor
	Calada

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egistration Date/Time: Registration Provider: Energysoft Report Generated: 2022-08-01 11:44:41 Project Name:

Project Address:

Occupancy Type <sup>4</sup>	. VENTILATIO	ON AND INDOOR AIR QUALITY								
Occupancy Type		Mechanical Ventila	tion Required	per §120.1(c)	3 <sup>3</sup>		Exh. \	Vent per §120.1(c)4		
Classroom   Lecture   postsecondary classroom   895   15   225   0   0   0   0   0   0   0   0   0	Space Name ot item Tag	Occupancy Type <sup>4</sup>	Floor Area	heads/		Min OA				
Total System Required Min OA CFM   System Design Oa CFM Occupancy Type   Floor Area (ft²)   Total System Required Min OA CFM Occupancy Type	Classroom	Lecture/ postsecondary classroom	805		15	225	0	0	DCV	
Name   RTU-F1   System Design OA CFM   Airflow   225   System Design   Transfer Air CFM   0   Air Filtration per \$120.1(c) and \$141.0(b)2   2	Classicolli	Lecture/ postsecondary classroom	833		13	223	U		Occ Sensor	533
System Name  RTU-F1  System Design OA CFM Airflov¹  225  System Design Transfer Air CFM  REquired Min OA CFM (ft²)  Classroom  Classroom  Total System Required Min OA CFM  Total System Required Min OA CFM  RTU-F2  System Design OA CFM Airflov¹  System Design OA CFM Airflov¹  225  System Design Transfer Air CFM  Required Min OA CFM Airflov¹  225  System Design OA CFM Airflov¹  225  System Design OA CFM  Required Min OA CFM Airflov¹  225  System Design OA CFM Airflov¹  Airflov²  Air Filtration per §120.1(c) and §141.0(b)2²  Provided per §120.1(c) and §141.0(b)2²  Provided per S120.1(c) (NR and Hotel/Motel))	17	Total System Required Min OA CFM		3.		225	18	Ventilation for this S	System Complies?	Yes
System Name RTU-F1 System Design OA CFM Airflow¹ 225 System Design Transfer Air CFM 0 Provided per \$120.1(c) (NR and Hotel/Motel))  8 09 10 11 12 13 14 15 16  Mechanical Ventilation Required per \$120.1(c)3 ³ Exh. Vent per \$120.1(c)4  Space Name ot item Tag Occupancy Type⁴ Conditioned (ft²) billets bil		04		05				06	C	7
Airflow¹ Airflow² Air			System Desi	gn ΩΔ CEM		System	Decign		Air Filtration per §120	.1(c) and §141.0(b)2 2
Space Name of item Tag  Occupancy Type <sup>4</sup> Conditioned Floor Area (ft <sup>2</sup> )  Classroom  Lecture/ postsecondary classroom  Total System Required Min OA CFM  RTU-F2  Mechanical Ventilation Required per \$120.1(c)3 ³  Exh. Vent per \$120.1(c)4  Min OA CFM  Min OA Min CFM  Min OA CFM  DCV  Provided per Design  \$120.1(d)5, and \$120.1(e)3 6  Provided per \$120.1(d)4  Occ Sensor  NA: Not required space type  NA: Not required space type  System Design OA CFM  Airflow¹  System Design OA CFM  Airflow¹  Airflow¹  Airflow¹  Occ Sensor  Of  Air Filtration per \$120.1(c) and \$141.0(b)2 ²  Provided per \$120.1(c) (NR and Hotel/Motel))	System Name	RTU-F1		week have a second	225	S750 # U.S. S750 S750 S750 S750 S750 S750 S750 S750		0		
Space Name of item Tag  Occupancy Type <sup>4</sup> Conditioned Floor Area (ft <sup>2</sup> )  Lecture/ postsecondary classroom  15  Classroom  Lecture/ postsecondary classroom  Required Min OA CFM  Provided per Design OCFM  DCV or Sensor Controls per §120.1(d)3, §120.1(e)3 6  Provided per Sizo.1(d)4  DCV Provided per Sizo.1(d)4  Occ Sensor  NA: Not required space type  17  Total System Required Min OA CFM  System Design OA CFM  Airflow <sup>1</sup> Name  Required Min OA CFM  225  18  Ventilation for this System Complies?  Yes  Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup> Provided per §120.1(c) (NR and Hotel/Motel))	08	09	10	11	12	13	14	15	1	6
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Mechanical Ventila	tion Required	per <u>§120.1(c)</u>	3 <sup>3</sup>		Exh. \	Vent per <u>§120.1(c)4</u>		
Classroom Lecture/ postsecondary classroom 905 15 225 0 0 0 0 0 0 NA: Not required space type  17 Total System Required Min OA CFM O4 05 06 07  System Design OA CFM Airflow 1 225 System Design Transfer Air CFM O6 OF OF OF OF OR OF OF OR OF OT OF OT	Space Name ot item Tag	Occupancy Type <sup>4</sup>	Floor Area	heads/		Min OA			50×00000000000000000000000000000000000	
Total System Required Min OA CFM  Occ Sensor  NA: Not required space type  17 Total System Required Min OA CFM  O4  O5  O6  O7  System Design OA CFM Airflow <sup>1</sup> System Design Transfer Air CFM  OCc Sensor  NA: Not required space type  Yes  Of  Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup> Provided per §120.1(c) (NR and Hotel/Motel))	Classroom	Lecture/ portsecondary classroom	200		15	225	0	0	DCV	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Classicolli	Lecture/ postsecondary classicom	903		13	223	U	Ü	Occ Sensor	
System Name RTU-F2 System Design OA CFM Airflow <sup>1</sup> 225 System Design Transfer Air CFM 0 Air Filtration per §120.1(c) and §141.0(b)2 <sup>2</sup> Provided per §120.1(c) (NR and Hotel/Motel))	17	Total System Required Min OA CFM				225	18	Ventilation for this S	System Complies?	Yes
System Name RTU-F2 System Design OA CFM Airflow <sup>1</sup> 225 System Design Transfer Air CFM Provided per §120.1(c) (NR and Hotel/Motel))		04		05				06	C	7
Airflow <sup>1</sup> Airflow <sup>1</sup> Transfer Air CFM Provided per §120.1(c) (NR and Hotel/Motel))		2	System Desi	gn ΩΔ CEM	8 8	System	Design		Air Filtration per §120	.1(c) and §141.0(b)2 2
08 09 10 11 12 13 14 15 16	System Name	RTU-F2			225		10.75	0		
	08	09	10	11	12	13	14	15	1	6

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	Mechanical Ventila	tion Required (	oer §120.1(c)	3 <sup>3</sup>		Exh. \	/ent per <u>§120.1(c)4</u>		
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM		trols per <u>§120.1(d)3,</u> nd <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom	895		15	225	0	0	DCV	Provided per §120.1(d)4
Classroom	Lecture/ postsecondary classroom	893		15	223	U	Ü	Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				225	18	Ventilation for this	System Complies?	Yes
	04		05				06	(	07
		System Desig	TO OA CEM		Custom	Design		Air Filtration per §120	0.1(c) and §141.0(b):
ystem Name	RTU-H4	Airflo		225		Air CFM	0		120.1(c) (NR and 'Motel))
08	09	10	11	12	13	14	15	19	16
	Mechanical Ventila	tion Required	oer <u>§120.1(c)</u>	3 <sup>3</sup>		Exh. \	/ent per <u>§120.1(c)4</u>		
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	500 P 100 P	trols per <u>§120.1(d)3</u> , nd <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom	895		15	225	0	0	DCV	Provided per §120.1(d)4
Classicolli	Lecture/ postsecondary classroom	893		13	223	U	O	Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM	-	A		225	18	Ventilation for this	System Complies?	Yes
	04		05				06		07
ni eran	S. 200 S. 20	System Desig	n OA CEM	S S	System	Design	200	Air Filtration per §120	0.1(c) and §141.0(b)
ystem Name	RTU-I1	Airfle		225		Air CFM	0	Contract to the contract to th	<u>120.1(c)</u> (NR and 'Motel))
				G					

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CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE NRCC-MCH-E (Page 25 of 47) 351 Cypress St Date Prepared: Project Address:

L MENTH ATIC	AN AND INDOOR AIR CHAIRT		) ii	30		1	à		
J. VENTILATIO	ON AND INDOOR AIR QUALITY			_				D	
	Mechanical Ventila			3 3		Exh.	Vent per §120.1(c)4		
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM		trols per <u>§120.1(d)3</u> , nd <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom	905		15	225	0	0	DCV	Provided per §120.1(d)4
Classicom	Lecture/ postsecondary classiconi	303		15	223	Ü	<b>S</b>	Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				225	18	Ventilation for this :	System Complies?	Yes
	04		05				06		)7
		System Desi	gn ΩΔ CEM		Systom	Design		Air Filtration per §120	0.1(c) and §141.0(b)2 <sup>2</sup>
System Name	RTU-I2	Airfl	and the second second	225		Air CFM	0		. <u>20.1(c)</u> (NR and Motel))
08	09	10	11	12	13	14	15	1	16
	Mechanical Ventila	tion Required	per <u>§120.1(c)</u>	3 <sup>3</sup>		Exh.	Vent per §120.1(c)4		
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	FEET OF SELECTION AND CARS AND	trols per <u>§120.1(d)3</u> , nd <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom	905		15	225	0	0	DCV	Provided per §120.1(d)4
Classicom	Lecture/ postsecondary classicom	303		13	223		, o	Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM	=			225	18	Ventilation for this :	System Complies?	Yes
	04		05				06	(	)7
	77	System Desi	gn ΩΔ CFM	8 3	System	Design		Air Filtration per §120	0.1(c) and §141.0(b)2 <sup>2</sup>
System Name	RTU-J3	Airfl	_	225		Air CFM	0	1 ACC ACC 2 TAT COLOR OF THE SECTION AND ACCUSATION	. <u>20.1(c)</u> (NR and Motel))
08	09	10	11	12	13	14	15	1	16

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	Mechanical Ventila	tion Required	per §120.1(c)	3 <sup>3</sup>		Exh. \	/ent per <u>§120.1(c)4</u>		
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM		trols per <u>§120.1(d)3</u> , nd <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom	895		15	225	0	0	DCV	Provided per §120.1(d)4
Ciassioom	Lecture/ postsecondary classroom	895		15	223	U	Ü	Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				225	18	Ventilation for this S	System Complies?	Yes
	04	05					06	(	)7
		System Desi	an OA CEM		Custom	tem Design		Air Filtration per §120	0.1(c) and §141.0(b)
System Name	RTU-F3	Airfle		225		Air CFM	0	Provided per §120.1(c) (NR an Hotel/Motel))	
08	09	10	11	12	13	14	15	1	16
	Mechanical Ventila	tion Required	per <u>§120.1(c)</u>	3 <sup>3</sup>		Exh. \	/ent per <u>§120.1(c)4</u>		
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft <sup>2</sup> )	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM		trols per <u>§120.1(d)3</u> nd <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom	895		15	225	0	0	DCV	Provided per §120.1(d)4
Classicolli	Lecture/ postsecondary classicom	893		13	223	0	O	Occ Sensor	NA: Not require space type
17	Total System Required Min OA CFM				225	18	Ventilation for this S	System Complies?	Yes
	04		05				06	(	)7
		System Desi	gn OA CEM	8	System	Design		Air Filtration per §120	0.1(c) and §141.0(b
System Name	RTU-H1	Airfle	_	225		Air CFM	0		120.1(c) (NR and Motel))
08	09	10	11	12	13	14	15		16

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	Mechanical Ventila	tion Required	per §120.1(c)	3 <sup>3</sup>		Exh. \	Vent per §120.1(c)4		
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM		trols per <u>§120.1(d)3</u> nd <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom	905		15	225	0	0	DCV	Provided per §120.1(d)4
Classroom	Lecture/ postsecondary classroom	905		15	223	U	O	Occ Sensor	NA: Not require space type
17	Total System Required Min OA CFM		58		225	18	Ventilation for this	System Complies?	Yes
	04		05				06		07
	•	System Desi	OA CENA					Air Filtration per §120	0.1(c) and §141.0(b
System Name	RTU-I2	Airfle		225	500000000000000000000000000000000000000	Design Air CFM	0		120.1(c) (NR and 'Motel))
08	09	10	11	12	13	14	15	19	16
	Mechanical Ventila	tion Required	per <u>§120.1(c)</u>	3 <sup>3</sup>		Exh. \	Vent per <u>§120.1(c)4</u>		
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	625000020000000000000000000000000000000	trols per <u>§120.1(d)3</u> nd <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom	905		15	225	0	0	DCV	Provided per §120.1(d)4
Classicolli	Lecture/ postsecondary classroom	903		15	223		Ü	Occ Sensor	NA: Not require space type
17	Total System Required Min OA CFM	-			225	18	Ventilation for this	System Complies?	Yes
	04		05				06		07
Te Di Maria		System Desi	gn OA CEM	8 8	System	Dosign		Air Filtration per §120	0.1(c) and §141.0(b
System Name	RTU-I3	Airfle		225		Air CFM	0	Provided per §120.1(c) (NR and Hotel/Motel))	
								notel/	wotel))

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	Mechanical Ventila	tion Required	per §120.1(c)	3 <sup>3</sup>		Exh. V	ent per <u>§120.1(c)4</u>		
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM		ntrols per <u>§120.1(d)3</u> , nd <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom	895		15	225	0	0	DCV	Provided per §120.1(d)4
Classroom	Lecture/ postsecondary classroom	895		15	223	U	Q	Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM		3:		225	18	Ventilation for this	System Complies?	Yes
	04		05				06		07
		System Desi	System Design OA CFM		Systom	Design		Air Filtration per §12	0.1(c) and §141.0(b)2
System Name	RTU-J4	Airfle	and feel as the second	225	Transfer		0		120.1(c) (NR and /Motel))
08	09	10	11	12	13	14	15	3	16
	Mechanical Ventila	tion Required	per <u>§120.1(c)</u>	3 <sup>3</sup>		Exh. V	ent per §120.1(c)4		
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM		ntrols per <u>§120.1(d)3,</u> nd <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom	895		15	225	0	0	DCV	Provided per §120.1(d)4
Classicolli	Lecture/ postsecondary classroom	695		13	223	0	0	Occ Sensor NA: Not requi	
17	Total System Required Min OA CFM			225	18	Ventilation for this:	System Complies?	Yes	

<sup>2</sup> Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing

<sup>3</sup> Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence. <sup>4</sup> See Standards Tables 120.1-A and 120.1-B.

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	Mechanical Ventila	tion Required	per §120.1(c)	)3 <sup>3</sup>		Exh. \	/ent per <u>§120.1(c)4</u>		
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM		trols per <u>§120.1(d)3</u> , nd <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom	905		15	225	0	0	DCV	Provided per §120.1(d)4
Classicolli	Lecture/ postsecondary classicom	303		13	223	U		Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				225	18	Ventilation for this	System Complies?	Yes
	04		05				06		)7
		System Desi	an OA CEM		Systom	Design		Air Filtration per §120	).1(c) and §141.0(b)2
System Name	RTU-H2	Airfle		225		Air CFM	0		120.1(c) (NR and Motel))
08	09	10	11	12	13	14	15	1	16
	Mechanical Ventila	tion Required	per <u>§120.1(c</u> )	<u>3</u> 3		Exh. \	/ent per §120.1(c)4		
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	EUROPEN TO AND THE RESERVE OF THE RE	trols per <u>§120.1(d)3,</u> nd <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom	905		15	225	0	0	DCV	Provided per §120.1(d)4
Classiconi	Lecture/ postsecondary classroom	303		15	223		Ü	Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				225	18	Ventilation for this	System Complies?	Yes
	04		05				06	(	)7
to the second		System Desi	gn ΩΔ CEM		System	Design		Air Filtration per §120	0.1(c) and §141.0(b)2
System Name	RTU-H3	Airfle	-	225		Air CFM	0		<u>120.1(c)</u> (NR and Motel))
08	09	10	11	12	13	14	15		16

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Registration Date/Time:

Report Version: 2019.1.003

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	Mechanical Ventila	tion Required	per §120.1(c)	3 <sup>3</sup>		Exh. \	/ent per <u>§120.1(c)4</u>		
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM		trols per <u>§120.1(d)3,</u> nd <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom	895		15	225	0	0	DCV	Provided per §120.1(d)4
Classicom	Lecture/ postsecondary classicom	833		13	223	U		Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM		32		225	18	Ventilation for this	System Complies?	Yes
	04		05				06		07
		System Desi	an OA CEM		C	D:		Air Filtration per §120	0.1(c) and §141.0(b)2
System Name	RTU-14	Airfl	Activities of the contract	225		Design Air CFM	0		120.1(c) (NR and 'Motel))
08	09	10	11	12	13	14	15	12	16
	Mechanical Ventila	tion Required	per <u>§120.1(c)</u>	3 <sup>3</sup>		Exh. \	/ent per <u>§120.1(c)4</u>		
Space Name ot item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft <sup>2</sup> )	# of Shower heads/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM		trols per <u>§120.1(d)3</u> , nd <u>§120.1(e)3</u> <sup>6</sup>
Classroom	Lecture/ postsecondary classroom	895		15	225	0	0	DCV	Provided per §120.1(d)4
Classicolli	Lecture/ postsecondary classicom	833		15	223		Ü	Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM	=			225	18	Ventilation for this	System Complies?	Yes
	04		05				06		07
Fe (1) 9-100		System Desi	gn OA CEM	8	System	Design	530	Air Filtration per §120	0.1(c) and §141.0(b)
System Name	RTU-J1	Airfl		225		Air CFM	0		120.1(c) (NR and 'Motel))
	icanonia de la companya della companya della companya de la companya de la companya della compan						15		

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Wiechanical Systems			
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J. VENTILATION AND INDOOR AIR QUALITY

<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

This		L COLFOR								
This section does	not apply to thi	s project.								
L. DISTRIBUTION	N (DUCTWOR	K and PIPING)	- 30							
This table is used	to show compli	ance with manda	tory pipe insulation requirer	ments found in §120.3	nd prescriptive requirements found in §140.4(I) for duct leaka	ge testing.				
Duct Leakage Sea	ling									
The answers to th	e questions be	low apply to the f	following duct systems:	FCU/CU-B1	Duct leakage testing triggered for these systems?	No				
11	No	The scope of t	he project includes only due	ct systems serving healtl	ncare facilities					
12	Yes	Duct system p	rovides conditioned air to a	n occupiable space for a	constant volume, single zone, space-conditioning system.					
13	Yes	The space con	ditioning system serves less	than 5,000 ft <sup>2</sup> of condit	ioned floor area.					
14	No	The combined	surface area of the ducts in	the following locations	is more than 25% of the total surface area of the entire duct s	ystem:				
			Outdoors							
					or greater than the u-factor of the ceiling, or if the roof does n ixed vents or openings to the outside/ unconditioned spaces	ot meet the				
			In an unconditioned crav	wl space						
			In other unconditioned s	spaces						
15		The scope of t	he project includes extendir	ng an existing duct syste	m, which is constructed, insulated or sealed with asbestos.					
16			등이 경기 교통 이 사무리에 하라면 사용한 상황을 하게 되었다. 사용의 하시기 있었다.	그리고 있다면 하다는 보다 하는 것이 없었다. 그런 그리고 있는 것이 없는 것이 없는 것이 없다면 하다.	ocumented to have been previously sealed as confirmed throu ence Nonresidential Appendix NA2.	ugh field verificatio				
17	Yes	Duct system s	Duct system shall be sealed in acordance with the California Mechanical Code							

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CONSTRUCTION DOCUMENTS 11/07/2022 REVISIONS

75-22605-00

TITLE 24 COMPLIANCE

CALIFORNIA ENERGY COMMISSION

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COMPLIANCE

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he answers to the	questions be	low apply to the f	ollowing duct systems:	RTU-C1	Duct leakage testing triggered for these systems?	No	
11	No	The scope of t	The scope of the project includes only duct systems serving healthcare facilities				
12	Yes	Duct system p	rovides conditioned air to	an occupiable space for a co	onstant volume, single zone, space-conditioning system.		
13	Yes	The space con	The space conditioning system serves less than 5,000 ft <sup>2</sup> of conditioned floor area.				
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:					
8	20		Outdoors		<del>,</del>		
					greater than the u-factor of the ceiling, or if the roof does ed vents or openings to the outside/ unconditioned spaces		
In an unconditioned crawl space							
			In other unconditioned	spaces			
15		The scope of t	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.				
16	50		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.				
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code					
he answers to the	questions be	low apply to the f	ollowing duct systems:	RTU-C2	Duct leakage testing triggered for these systems?	No	
11	No	The scope of t	he project includes only du	uct systems serving healthc	are facilities		
12	Yes	Duct system p	rovides conditioned air to	an occupiable space for a co	onstant volume, single zone, space-conditioning system.		
13	Yes	The space con	ditioning system serves les	ss than 5,000 ft <sup>2</sup> of conditio	ned floor area.		
14	No		surface area of the ducts	in the following locations is	more than 25% of the total surface area of the entire duct	t system:	
			Outdoors				
					greater than the u-factor of the ceiling, or if the roof does ed vents or openings to the outside/ unconditioned spaces		
			☐ In an unconditioned crawl space				
			In other unconditioned	spaces			
15		The scope of t	he project includes extend	ing an existing duct system	, which is constructed, insulated or sealed with asbestos.		
16			The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.				
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code					

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he answers to the	questions be	low apply to the f	following duct systems:	RTU-F2	Duct leakage testing triggered for these systems?	No	
11	No		The scope of the project includes only duct systems serving healthcare facilities				
12	Yes		Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.				
13	Yes		The space conditioning system serves less than 5,000 ft <sup>2</sup> of conditioned floor area.				
14	No	The <u>combined</u> surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:					
	20.28		Outdoors	· ·		22. <b>5</b>	
In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned space.					일반도 <mark>하다면 하는데 하는데 하는데 되었다. 이번 1998의 사업을 하는데 하면 되었다. 이번 사업을 하는데 하는데 하는데 하는데 하는데 하는데 되었다. 이번 1909의 1900의 1900의 1900의</mark>		
			In an unconditioned cra	awl space			
			In other unconditioned	spaces	2		
15		The scope of t	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.				
16			The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.				
17	Yes	Duct system s	hall be sealed in acordance	with the California Mech	anical Code		
ne answers to the	questions be	low apply to the f	ollowing duct systems:	RTU-F3	Duct leakage testing triggered for these systems?	No	
11	No	The scope of t	The scope of the project includes only duct systems serving healthcare facilities				
12	Yes	Duct system p	rovides conditioned air to	an occupiable space for a	constant volume, single zone, space-conditioning system.		
13	Yes	The space con	ditioning system serves les	s than 5,000 ft <sup>2</sup> of conditi	oned floor area.		
14	No	The combined	surface area of the ducts	in the following locations i	is more than 25% of the total surface area of the entire duct	system:	
			Outdoors				
					or greater than the u-factor of the ceiling, or if the roof does xed vents or openings to the outside/ unconditioned spaces		
			In an unconditioned cra	awl space			
			In other unconditioned	spaces			
15		The scope of t	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.				
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.					
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code					

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	2		- No.	20	7	2	
L. DISTRIBUTIO	N (DUCTWORI	K and PIPING)					
The answers to th	e questions bel	low apply to the fo	ollowing duct systems:	RTU-I1	Duct leakage testing triggered for these systems?	No	
11	No	The scope of th	he scope of the project includes only duct systems serving healthcare facilities				
12	Yes	Duct system pr	ovides conditioned air to	an occupiable space for a co	nstant volume, single zone, space-conditioning system.		
13	Yes	The space cond	ditioning system serves les	ss than 5,000 ft <sup>2</sup> of condition	ed floor area.		
14	No	The combined	surface area of the ducts	in the following locations is r	more than 25% of the total surface area of the entire duc	ct system:	
	-3.99		Outdoors			<del></del>	
	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces						
In an unconditioned crawl space							
			In other unconditioned	spaces	9	50	
15		The scope of th	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.				
16			The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.				
17	Yes	Duct system sh	Duct system shall be sealed in acordance with the California Mechanical Code				
he answers to th	e questions bel	low apply to the fo	ollowing duct systems:	RTU-I2	Duct leakage testing triggered for these systems?	No	
11	No	The scope of th	ne project includes only du	uct systems serving healthca	re facilities		
12	Yes	Duct system pr	ovides conditioned air to	an occupiable space for a co	nstant volume, single zone, space-conditioning system.	M1	
13	Yes	The space cond	ditioning system serves les	ss than 5,000 ft <sup>2</sup> of condition	ed floor area.	100 mg	
14	No	The combined	surface area of the ducts	in the following locations is r	more than 25% of the total surface area of the entire duc	t system:	
			Outdoors				
					greater than the u-factor of the ceiling, or if the roof doe d vents or openings to the outside/ unconditioned space		
			In an unconditioned cra	awl space		0,	
			In other unconditioned	spaces		V6	
15		The scope of th	ne project includes extend	ing an existing duct system,	which is constructed, insulated or sealed with asbestos.		
16	20		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.				
17	Yes	Duct system sh	all be sealed in acordance	with the California Mechan	ical Code	V.	

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he answers to th	e questions be	low apply to the following duct systen	ns: RTU-G1	Duct leakage testing triggered for these systems?	No		
11	No	The scope of the project includes of	only duct systems serving heal	hcare facilities			
12	Yes	Duct system provides conditioned	air to an occupiable space for	a constant volume, single zone, space-conditioning system.			
13	Yes	The space conditioning system ser	ves less than 5,000 ft <sup>2</sup> of cond	tioned floor area.			
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:					
	5.9	Outdoors		,			
			[15] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1	tor greater than the u-factor of the ceiling, or if the roof does n fixed vents or openings to the outside/ unconditioned spaces	ot meet the		
		☐ In an uncondition	ned crawl space				
		☐ In other uncondi	tioned spaces	2 3			
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.					
16	70 10	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.					
17	Yes	Duct system shall be sealed in aco	rdance with the California Med	hanical Code			
he answers to th	e questions be	low apply to the following duct system	ns: RTU-G2	Duct leakage testing triggered for these systems?	No		
11	No	The scope of the project includes of	only duct systems serving heal	hcare facilities			
12	Yes	Duct system provides conditioned	air to an occupiable space for	a constant volume, single zone, space-conditioning system.			
13	Yes	The space conditioning system ser	The space conditioning system serves less than 5,000 ft <sup>2</sup> of conditioned floor area.				
14	No	The <u>combined</u> surface area of the	ducts in the following location	s is more than 25% of the total surface area of the entire duct s	ystem:		
		Outdoors					
			H를 이번 발 하하는 데 보니 ^^ 보니 하다 하다 보니? HE	tor greater than the u-factor of the ceiling, or if the roof does n fixed vents or openings to the outside/ unconditioned spaces	ot meet the		
		☐ In an uncondition	In an unconditioned crawl space				
		☐ In other uncondi	tioned spaces				
15		The scope of the project includes e	extending an existing duct syst	em, which is constructed, insulated or sealed with asbestos.			
16				documented to have been previously sealed as confirmed throusence Nonresidential Appendix NA2.	ugh field verificat		

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ha answers to th	e questions ha	low apply to the following duct systems:	RTU-H1	Duct leakage testing triggered for these systems?	No		
			5000 VS.10500X		NO		
11	No	The scope of the project includes only		A CONTRACTOR OF THE CONTRACTOR			
12	Yes			nstant volume, single zone, space-conditioning system.			
13	Yes	The space conditioning system serves I			-0.		
14	No		s in the following locations is n	nore than 25% of the total surface area of the entire duct sy	rstem:		
		Outdoors					
				reater than the u-factor of the ceiling, or if the roof does not be seen that the roof does not be read to the outside and the roof does not be read to the outside and the roof does not be read to the roof does not be r	ot meet the		
		In an unconditioned crawl space					
		☐ In other uncondition	ed spaces	5 S			
The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.							
16	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verifi and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.						
17	Yes	Duct system shall be sealed in acordan	ce with the California Mechani	cal Code			
he answers to th	e questions be	low apply to the following duct systems:	RTU-H2	Duct leakage testing triggered for these systems?	No		
11	No	The scope of the project includes only	duct systems serving healthcar	re facilities			
12	Yes	Duct system provides conditioned air t	o an occupiable space for a cor	nstant volume, single zone, space-conditioning system.			
13	Yes	The space conditioning system serves I	ess than 5,000 ft <sup>2</sup> of condition	ed floor area.			
14	No	The combined surface area of the duct	s in the following locations is n	nore than 25% of the total surface area of the entire duct sy	stem:		
	20 <b>.</b>	Outdoors					
				reater than the u-factor of the ceiling, or if the roof does no d vents or openings to the outside/ unconditioned spaces	ot meet the		
		☐ In an unconditioned o	crawl space				
		☐ In other uncondition	ed spaces				
15		The scope of the project includes exter	nding an existing duct system, v	which is constructed, insulated or sealed with asbestos.			
16	*	The scope of the project includes an ex and diagnostic testing in accordance w	400 PM : [1977] (2.17)(1971) [2.17] (1.17)(1.17) (1.17) (1.17) (1.17) (1.17) (1.17) (1.17) (1.17) (1.17)	mented to have been previously sealed as confirmed throu e Nonresidential Appendix NA2.	gh field verificatio		
		- N 1054	ce with the California Mechani				

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ne answers to th	ne questions be	low apply to the f	following duct systems:	RTU-I3	Duct leakage testing triggered for these systems?	No		
11	No		he project includes only du	ct systems serving healt	Visiting the Control of the Control	2505-850		
12	Yes	The second secon			constant volume, single zone, space-conditioning system.			
13	Yes	The space con	ditioning system serves les	s than 5,000 ft <sup>2</sup> of condit	tioned floor area.			
14	No	The <u>combined</u> surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:						
	201000		Outdoors					
					or greater than the u-factor of the ceiling, or if the roof does no fixed vents or openings to the outside/ unconditioned spaces	ot meet the		
			In an unconditioned cra	wl space				
			In other unconditioned spaces					
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos						
16	40	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field veri and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.						
			를 즐겁게 하다면 하다면 다른 사람이 되었다면 보고 있다면 보고 있다면 보고 있다면 보고 있다면 보고 있다면 없다. H		트레스크림트를 만든 이용 이용 마음을 제대를 받는다. 전에 대한 경기를 받는다. 전에 보면 함께 되었다면 이 전투를 보는 것은 이 경기에서 그렇게 되었다면 하는데 보다	gii nela vermeati		
17	Yes	and diagnostic	를 즐겁게 하다면 하다면 다른 사람이 되었다면 보고 있다면 보고 있다면 보고 있다면 보고 있다면 보고 있다면 없다. H	procedures in the Refer	ence Nonresidential Appendix NA2.	gri ricia verificati		
		and diagnostic	testing in accordance with	procedures in the Refer	ence Nonresidential Appendix NA2.	No No		
		and diagnostic Duct system sl low apply to the f	testing in accordance with hall be sealed in acordance	procedures in the Refer with the California Meci RTU-I4	rence Nonresidential Appendix NA2. hanical Code  Duct leakage testing triggered for these systems?	1000h		
ne answers to th	ne questions be	and diagnostic Duct system sl low apply to the f The scope of t	testing in accordance with hall be sealed in acordance following duct systems: the project includes only du	procedures in the Refer with the California Mecl RTU-I4 ct systems serving healt	rence Nonresidential Appendix NA2. hanical Code  Duct leakage testing triggered for these systems?	1000h		
ne answers to th	ne questions be	and diagnostic Duct system slow apply to the f The scope of t Duct system p	testing in accordance with hall be sealed in acordance following duct systems: the project includes only du	procedures in the Refer with the California Mecl RTU-I4 ct systems serving health an occupiable space for a	rence Nonresidential Appendix NA2.  hanical Code  Duct leakage testing triggered for these systems?  hcare facilities  constant volume, single zone, space-conditioning system.	1000 D		
ne answers to th	No Yes	and diagnostic Duct system si clow apply to the f The scope of t Duct system p The space con	testing in accordance with hall be sealed in acordance following duct systems: the project includes only du provides conditioned air to a ditioning system serves less	with the California Mecl RTU-I4 ct systems serving healt an occupiable space for a s than 5,000 ft <sup>2</sup> of condit	rence Nonresidential Appendix NA2.  hanical Code  Duct leakage testing triggered for these systems?  hcare facilities  constant volume, single zone, space-conditioning system.	No		
ne answers to the 11 12 13	No Yes Yes	and diagnostic Duct system si clow apply to the f The scope of t Duct system p The space con	testing in accordance with hall be sealed in acordance following duct systems: the project includes only du provides conditioned air to a ditioning system serves less	with the California Mecl RTU-I4 ct systems serving healt an occupiable space for a s than 5,000 ft <sup>2</sup> of condit	rence Nonresidential Appendix NA2.  hanical Code  Duct leakage testing triggered for these systems?  hcare facilities a constant volume, single zone, space-conditioning system.  tioned floor area.	No		
ne answers to the 11 12 13	No Yes Yes	and diagnostic Duct system si low apply to the f The scope of t Duct system p The space con The combined	testing in accordance with hall be sealed in acordance following duct systems: the project includes only ductovides conditioned air to a additioning system serves less surface area of the ducts in Outdoors In a space directly unde	with the California Mecl RTU-I4 ct systems serving health in occupiable space for a s than 5,000 ft <sup>2</sup> of condit in the following locations or a roof that has a U-fact	rence Nonresidential Appendix NA2.  hanical Code  Duct leakage testing triggered for these systems?  hcare facilities a constant volume, single zone, space-conditioning system.  tioned floor area.	No vstem:		
ne answers to the 11 12 13	No Yes Yes	and diagnostic Duct system si slow apply to the f The scope of t Duct system p The space con The combined	testing in accordance with hall be sealed in acordance following duct systems: the project includes only ductovides conditioned air to a additioning system serves less surface area of the ducts in Outdoors In a space directly unde	with the California Mecl RTU-I4 ct systems serving healt an occupiable space for a s than 5,000 ft <sup>2</sup> of condi- in the following locations r a roof that has a U-fact (a)1B or if the roof has f	rence Nonresidential Appendix NA2.  hanical Code  Duct leakage testing triggered for these systems?  hcare facilities  constant volume, single zone, space-conditioning system.  tioned floor area.  is more than 25% of the total surface area of the entire duct system greater than the u-factor of the ceiling, or if the roof does not to the ceiling of the roof does not the	No vstem:		
ne answers to the 11 12 13	No Yes Yes	and diagnostic Duct system si clow apply to the f The scope of t Duct system p The space con The combined	testing in accordance with hall be sealed in acordance following duct systems: the project includes only dustrovides conditioned air to additioning system serves less surface area of the ducts in Outdoors In a space directly under requirements of §140.3	with the California Mecles RTU-I4  ct systems serving health on occupiable space for a sthan 5,000 ft² of condition the following locations are a roof that has a U-fact (a)1B or if the roof has full space	rence Nonresidential Appendix NA2.  hanical Code  Duct leakage testing triggered for these systems?  hcare facilities  constant volume, single zone, space-conditioning system.  tioned floor area.  is more than 25% of the total surface area of the entire duct system greater than the u-factor of the ceiling, or if the roof does not to the ceiling of the roof does not the	No vstem:		
ne answers to the 11 12 13	No Yes Yes	and diagnostic Duct system si clow apply to the f The scope of t Duct system p The space con The combined	testing in accordance with hall be sealed in acordance following duct systems: the project includes only dustrovides conditioned air to additioning system serves less surface area of the ducts in Outdoors In a space directly under requirements of §140.3 In an unconditioned cra	with the California Mecles RTU-I4 ct systems serving health an occupiable space for a sthan 5,000 ft² of condition the following locations rearoof that has a U-fact (a)1B or if the roof has fewl space spaces	rence Nonresidential Appendix NA2.  hanical Code  Duct leakage testing triggered for these systems?  hcare facilities  constant volume, single zone, space-conditioning system.  tioned floor area.  is more than 25% of the total surface area of the entire duct system greater than the u-factor of the ceiling, or if the roof does not to the ceiling of the roof does not the	No vstem:		
11 12 13 14	No Yes Yes	and diagnostic Duct system si Flow apply to the f The scope of t Duct system p The space con The combined  The scope of t The scope of t	testing in accordance with hall be sealed in acordance following duct systems: the project includes only ductorovides conditioned air to a additioning system serves less foundables.  Outdoors In a space directly under requirements of §140.3 In an unconditioned crain other unconditioned the project includes extenditioned crain or server includes an exist the project includes an exist the projec	with the California Mecles RTU-I4  ct systems serving health on occupiable space for a sthan 5,000 ft² of condition the following locations or a roof that has a U-fact (a)1B or if the roof has fewl space spaces on an existing duct system that is desired with the following locations or a roof that has a U-fact (a)1B or if the roof has fewl space spaces on an existing duct system that is desired as the roof duct system that is desired with the roof duct system that is desired as the roof duct system that	hanical Code  Duct leakage testing triggered for these systems?  hcare facilities  constant volume, single zone, space-conditioning system.  tioned floor area.  is more than 25% of the total surface area of the entire duct system greater than the u-factor of the ceiling, or if the roof does not fixed vents or openings to the outside/ unconditioned spaces	No vstem:		

Registration Number:	Registration Date/Time:	Registration Provider: Energistration
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Generated: 2022-08-01 11:

he answers to th	e questions be	low apply to the following duct sys	tems: RTU-G3	Duct leakage testing triggered for these systems?	No	
11	No	The scope of the project includ	es only duct systems serving healt	care facilities	0,00,400	
12	Yes	Duct system provides condition	ned air to an occupiable space for a	constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft <sup>2</sup> of conditioned floor area.				
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:				
		Outdoors				
				or greater than the u-factor of the ceiling, or if the roof does rexed vents or openings to the outside/ unconditioned spaces	not meet the	
		☐ In an uncondi	tioned crawl space			
		☐ In other unco	nditioned spaces			
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.				
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verifi and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.				
17	Yes	Duct system shall be sealed in a	acordance with the California Mecl	anical Code		
he answers to th	e questions be	low apply to the following duct sys	tems: RTU-F1	Duct leakage testing triggered for these systems?	No	
11	No	The scope of the project includ	es only duct systems serving healt	ncare facilities		
12	Yes	Duct system provides condition	ned air to an occupiable space for a	constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system	serves less than 5,000 ft2 of condit	ioned floor area.		
14	No	The combined surface area of t	he ducts in the following locations	is more than 25% of the total surface area of the entire duct s	system:	
		Outdoors				
			뭐하면 사람들이 하게 하다면 살아서 나가 나가 아니라 나가지 않는데 하다 하는데 하다 나가지 않는데 가장하게 되었다.	or greater than the u-factor of the ceiling, or if the roof does rexed vents or openings to the outside/ unconditioned spaces	not meet the	
		☐ In an uncondi	tioned crawl space			
			u alisi a u a al ausa a a			
		☐ In other unco	nditioned spaces			

Registration Date/Time:

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CVUSD Cypress Report Page: 351 Cypress St Date Prepared:

NRCC-MCH-E						CALIFORNIA EN	<b>IERGY COMMISSIO</b>
CERTIFICATE OF CO	MPLIANCE						NRCC-MCH-
Project Name:				CVUSD Cypress Re	eport Page:		(Page 33 of 4
Project Address:				351 Cypress St Da	ate Prepared	:	8/1/202
THE distrets to th			following duct systems: the project includes only	RTU-H3	1 14	Duct leakage testing triggered for these systems?	No
		line scone of t	the project includes only a	THE CUSTOMS COPUING	g nealthcare	e facilities	
11	No					TO 15	
11 12	No Yes					stant volume, single zone, space-conditioning system.	
	ANGEL A	Duct system p		o an occupiable spa	ce for a con	stant volume, single zone, space-conditioning system.	
12	Yes	Duct system p The space con	provides conditioned air to aditioning system serves l	o an occupiable spacess than 5,000 ft <sup>2</sup> of	ce for a con f conditione	stant volume, single zone, space-conditioning system.	rstem:
12 13	Yes Yes	Duct system p The space con	provides conditioned air to aditioning system serves l	o an occupiable spacess than 5,000 ft <sup>2</sup> of	ce for a con f conditione	stant volume, single zone, space-conditioning system.	rstem:

Yes Duct system shall be sealed in acordance with the California Mechanical Code

he answers to th	ne questions be	low apply to the fo	llowing duct systems:	RTU-H3	Duct leakage testing triggered for these systems?	No	
11	No	The scope of the	e project includes only	duct systems serving healthcar	e facilities		
12	Yes	Duct system pro	ovides conditioned air t	o an occupiable space for a cor	nstant volume, single zone, space-conditioning system.		
13	Yes	The space cond	itioning system serves l	ess than 5,000 ft <sup>2</sup> of condition	ed floor area.		
14	No	The combined s	urface area of the duct	s in the following locations is n	nore than 25% of the total surface area of the entire duct s	/stem:	
	- S		Outdoors		*		
				[18] [18] [18] [18] [18] [18] [18] [18]	reater than the u-factor of the ceiling, or if the roof does not be used to the outside and unconditioned spaces	ot meet the	
		In an unconditioned crawl space					
			In other unconditions	ed spaces	2 8		
The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.							
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.					
17	Yes	Duct system sha	all be sealed in acordan	ce with the California Mechani	cal Code		
he answers to th	ne questions be	low apply to the fo	llowing duct systems:	RTU-H4	Duct leakage testing triggered for these systems?	No	
11	No	The scope of the	e project includes only	duct systems serving healthcar	e facilities		
12	Yes	Duct system pro	ovides conditioned air t	o an occupiable space for a cor	nstant volume, single zone, space-conditioning system.		
13	Yes	The space cond	itioning system serves l	ess than 5,000 ft <sup>2</sup> of condition	ed floor area.		
14	No	The combined s	urface area of the duct	s in the following locations is n	nore than 25% of the total surface area of the entire duct sy	/stem:	
			Outdoors				
				경기 있다는 이 이번 이제 없다고 있었다면 일을 하면 하면 있다면 사고 있다면 있으면 가장하다면 되었다.	reater than the u-factor of the ceiling, or if the roof does not be understood to the outside/ unconditioned spaces	ot meet the	
			In an unconditioned of	crawl space			
			In other unconditions	ed spaces			
15		The scope of the	e project includes exter	nding an existing duct system, v	which is constructed, insulated or sealed with asbestos.		
16					mented to have been previously sealed as confirmed throu e Nonresidential Appendix NA2.	gh field verificati	
17	Yes	Duct system sha	all he sealed in acordan	ce with the California Mechani	cal Code		

		and diagnostic testing in accordance with	in procedures in the Neierence Normesidential Appen	dia IVAZ.				
17	Yes	Duct system shall be sealed in acordance	ct system shall be sealed in acordance with the California Mechanical Code					
Registration Number	er:		Registration Date/Time:	Registration Provider: Energysoft				
CA Building Energy	Efficiency Stand	dards - 2019 Nonresidential Compliance	Report Version: 2019.1.003	Report Generated: 2022-08-01 11:44:41				

CVUSD Cypress Report Page: 351 Cypress St Date Prepared:

Schema Version: rev 20200601

STATE OF CALIF	ORNIA
Mechani	cal Systems
NRCC-MCH-E	

CERTIFICATE OF COMPLIANCE

Project Name:

Project Address:

STATE OF CALIFORNIA

Project Name: Project Address:

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

**Mechanical Systems** 

CERTIFICATE OF COMPLIANCE

he answers to the	questions be	low apply to the fe	ollowing duct systems:	RTU-J1	Duct leakage testing triggered for these systems?	No						
11 No The scope of the project includes only duct systems serving healthcare facilities												
12	Yes	Duct system pr	rovides conditioned air to	an occupiable space for a	constant volume, single zone, space-conditioning system.							
13	Yes	The space con-	ditioning system serves le	ss than 5,000 ft <sup>2</sup> of conditi	oned floor area.							
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:										
8			Outdoors		<del>,</del>							
					r greater than the u-factor of the ceiling, or if the roof does noted vents or openings to the outside/ unconditioned spaces	ot meet the						
			In an unconditioned co	awl space								
☐ In other unconditioned spaces												
The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.												
16	5	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.										
17	Yes	Duct system sh	nall be sealed in acordanc	e with the California Mech	anical Code							
he answers to the	questions be	low apply to the fe	ollowing duct systems:	RTU-I2	Duct leakage testing triggered for these systems?	No						
11	No	The scope of t	he project includes only d	uct systems serving health	care facilities							
12	Yes	Duct system p	rovides conditioned air to	an occupiable space for a	constant volume, single zone, space-conditioning system.							
13	Yes	The space con-	ditioning system serves le	ss than 5,000 ft <sup>2</sup> of conditi	oned floor area.							
14	No	The combined	surface area of the ducts	in the following locations	s more than 25% of the total surface area of the entire duct sy	ystem:						
			Outdoors									
					r greater than the u-factor of the ceiling, or if the roof does noted vents or openings to the outside/ unconditioned spaces	ot meet the						
			In an unconditioned co	awl space								
			In other unconditione	d spaces								
15		The scope of t	he project includes exten	ding an existing duct syster	n, which is constructed, insulated or sealed with asbestos.							

Registration Number:	Registration Date/Time:	Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Generated: 2022-08-01 11:44:41

and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.

Yes Duct system shall be sealed in acordance with the California Mechanical Code

The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification

Registration Date/Time:

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Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time:

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Schema Version: rev 20200601

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NRCC-MCH-E

Project Name:

Project Address:

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Registration Number:

STATE OF CALIFORNIA

NRCC-MCH-E

Project Name:

Project Address:

Registration Number:

STATE OF CALIFORNIA

Project Name:

Project Address:

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Provider: Energysoft

Report Generated: 2022-08-01 11:44:41

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

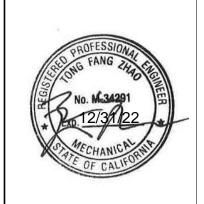
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TITLE 24

Registration Provider: Energysoft

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COMPLIANCE





M0.7

STATE OF CALIFORNIA **Mechanical Systems** 

NRCC-MCH-E		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		8	NRCC-MCH-E
Project Name:	CVUSD Cypress	Report Page:	(Page 46 of 47)
Project Address:	351 Cypress St	Date Prepared:	8/1/2022

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.								
This table is used to maleate where managedly measures are abcamented in the	te plan set of construction accumentation.	(Market)						
01		02						
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	M-Sheets						

Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-08-01 11:44:41 Schema Version: rev 20200601

STATE OF CALIFORNIA

Mechanical Syst

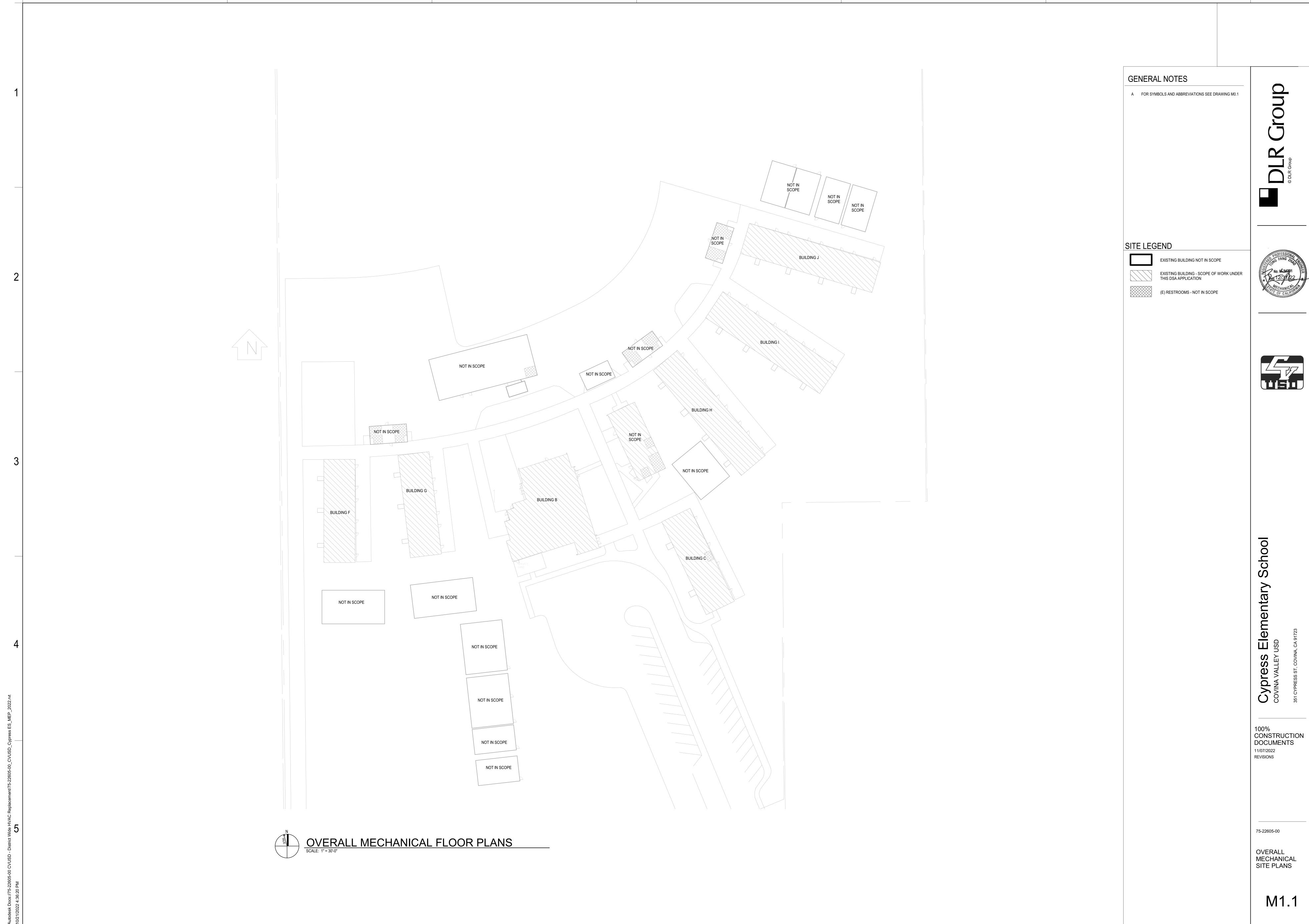
Mechanical Systems			
NRCC-MCH-E		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	CVUSD Cypress	Report Page:	(Page 47 of 47)
Project Address:	351 Cypress St	Date Prepared:	8/1/2022

I certify that this Certificate of Compliance documentation is accurat	te and complete.
Documentation Author Name: Abhijit Rege	Documentation Author Signature:
Company: DLR Group	Signature Date: 2022-08-01
Address:	CEA/ HERS Certification Identification (if applicable): 9F30-5A88-E6C4-7653-2F72-A82E-9671-A2D4-7420-7AD7-DA3E-A59B-8F3B-18A3-B88E- 17FE
City/State/Zip:	Phone: (949)-701-8533
<ol> <li>The energy features and performance specifications, materials, components, and m of Title 24, Part 1 and Part 6 of the California Code of Regulations.</li> <li>The building design features or system design features identified on this Certificate plans and specifications submitted to the enforcement agency for approval with this.</li> <li>I will ensure that a completed signed copy of this Certificate of Compliance shall be</li> </ol>	nsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) canufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, s building permit application. made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable ance is required to be included with the documentation the builder provides to the building owner at occupancy.
Responsible Designer Name: TONG FANG ZHAO	Responsible Designer Signature: Fr There
Company: DLR GROUP	Date Signed: 2022-08-01
Address: 700 FLOWER STREET	License: M-34291
City/State/Zip: LOS ANGELES CA 90017	Phone: 213-444-0610

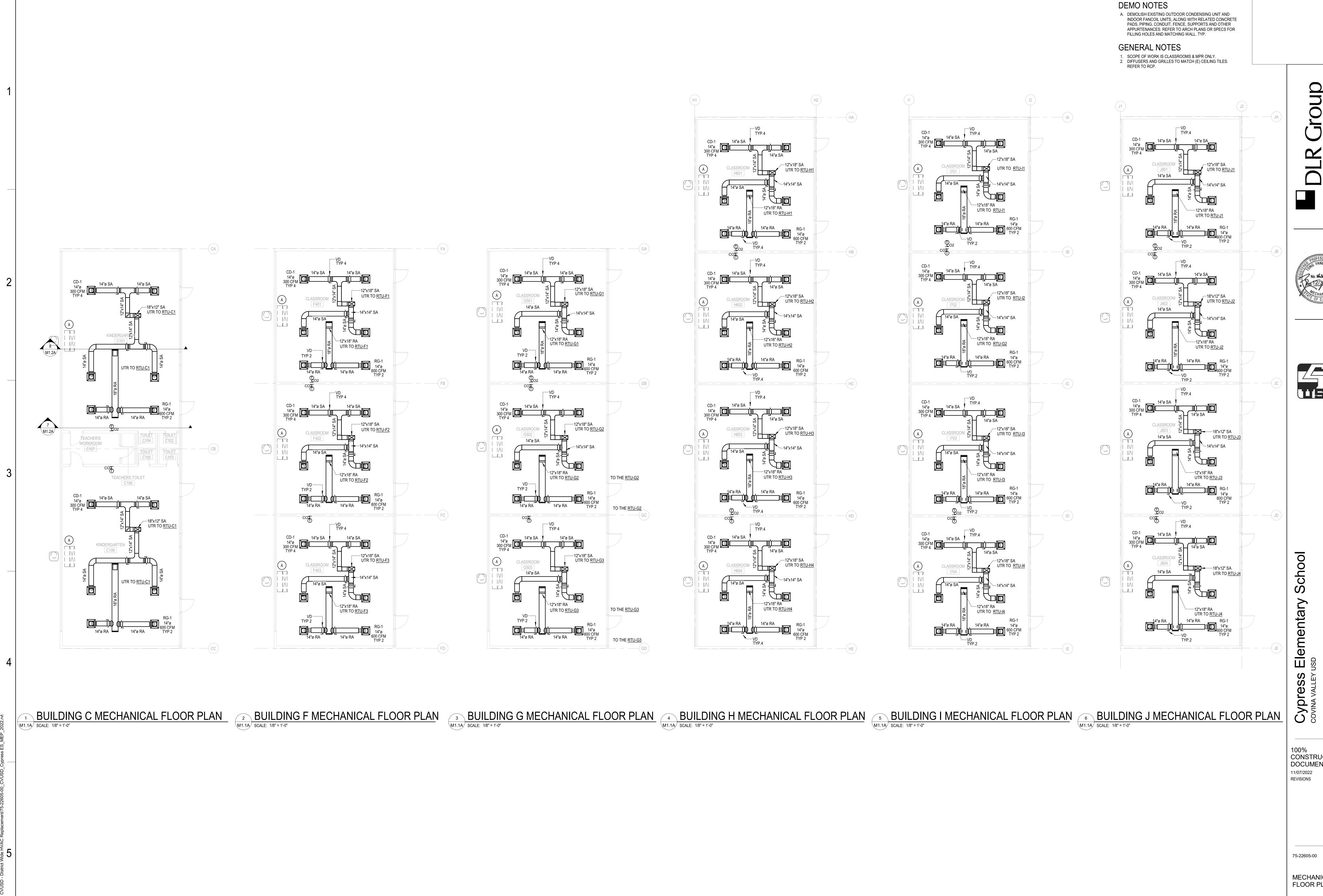
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601

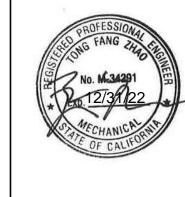
Registration Provider: Energysoft Report Generated: 2022-08-01 11:44:41







Group



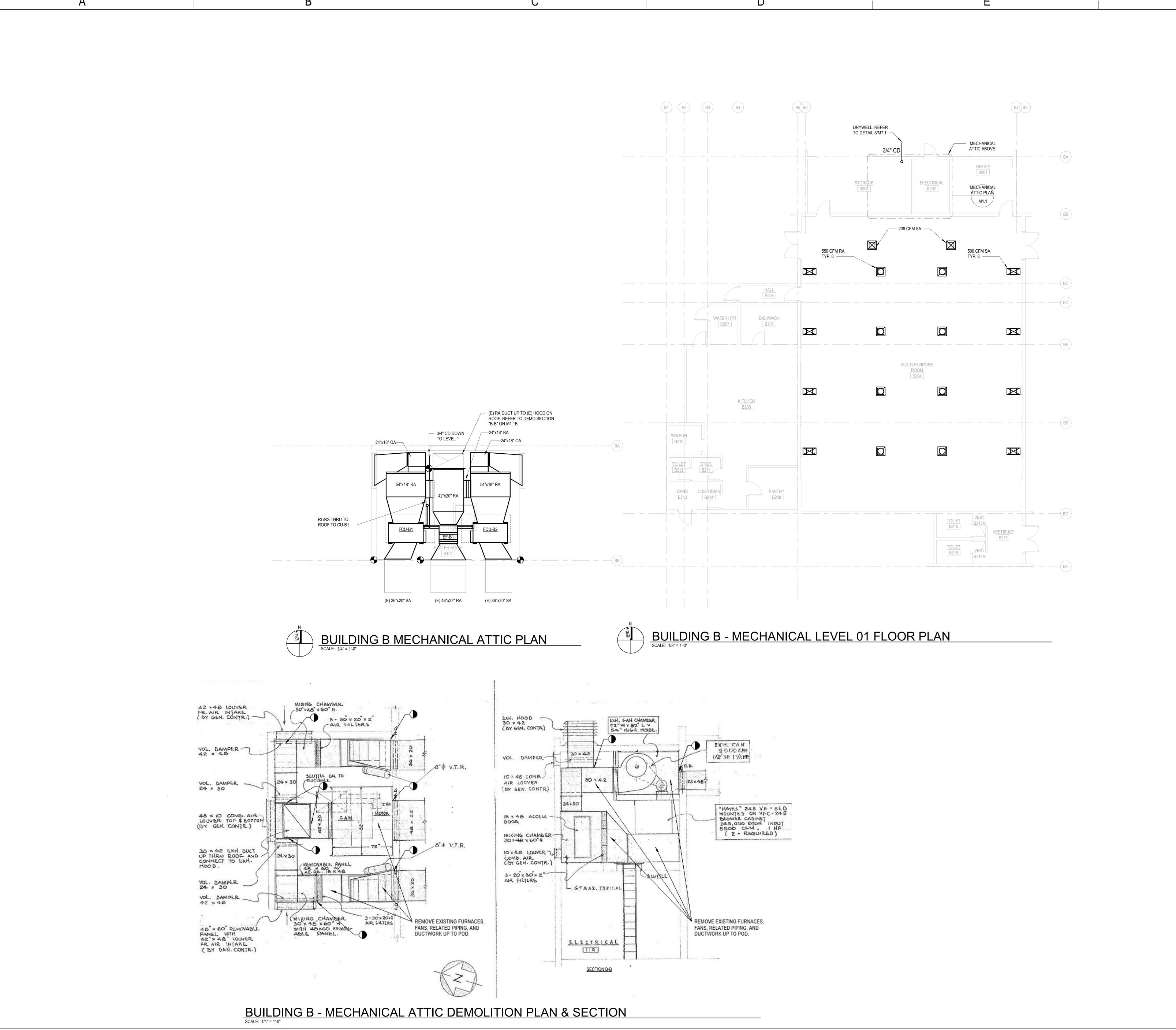




100% CONSTRUCTION DOCUMENTS

MECHANICAL FLOOR PLANS

M1.1A



DEMO NOTES

A DEMO (E) EQUIPMENT AND SA & RA DUCTWORK IN THE SCOPE AREA UP TO POC, ALONG WITH ALL THE SUPPORTS, PIPING, AND OTHER COMPONENTS.

DLR Group





ess Elementary School

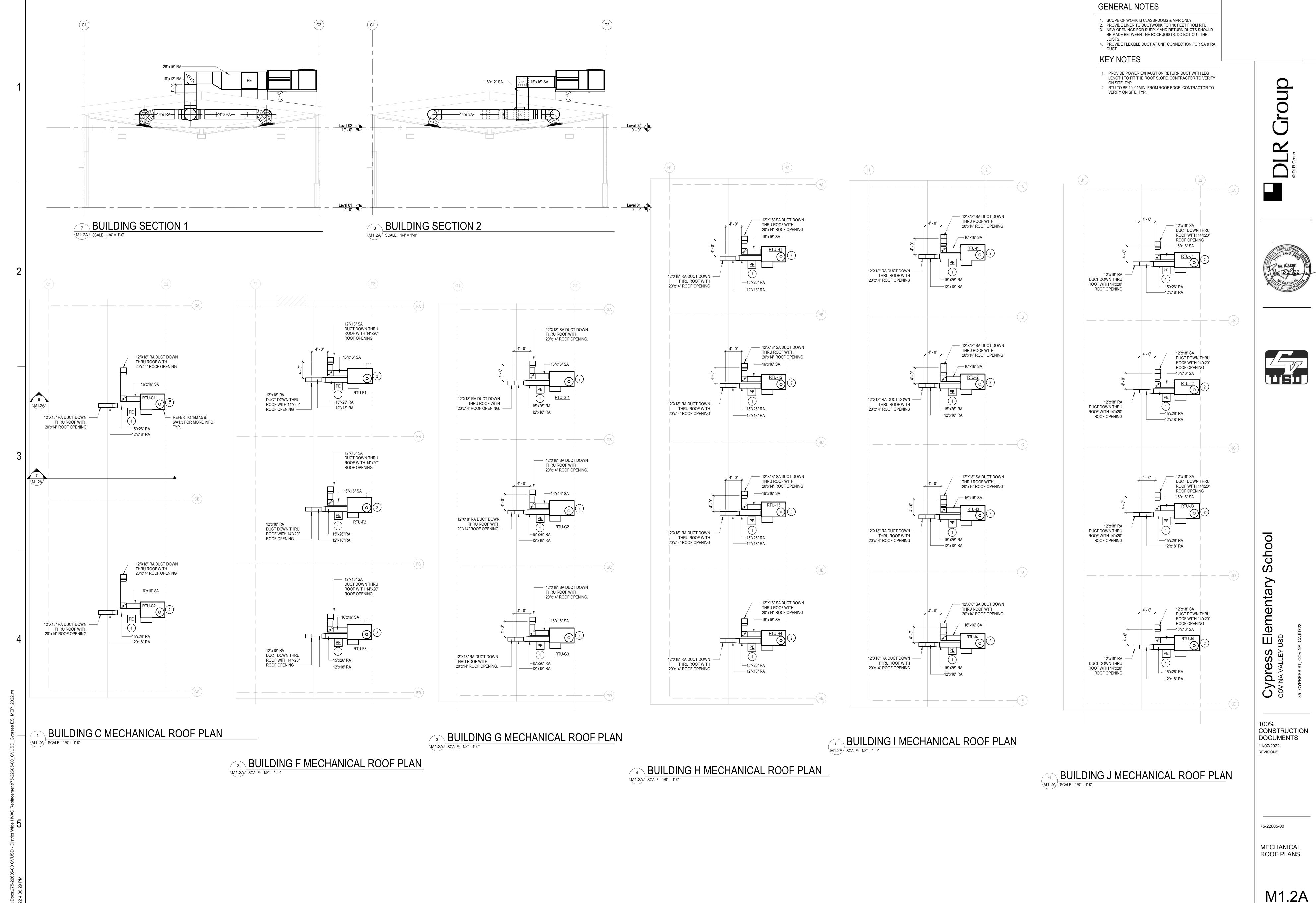
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11/07/2022 REVISIONS

75-22605-00

MECHANICAL FLOOR PLANS

M1.1B





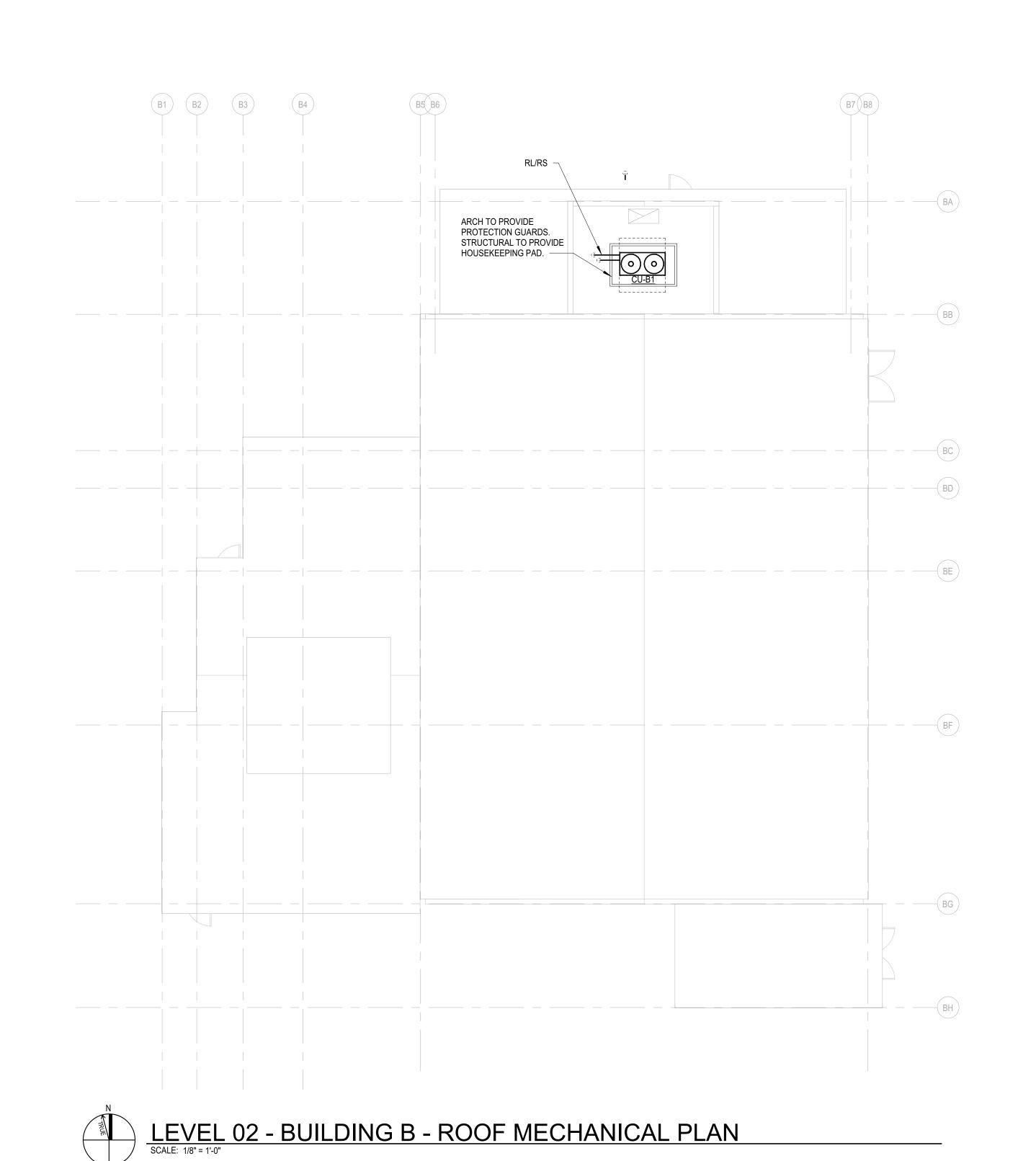
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MECHANICAL ROOF PLANS

M1.2B









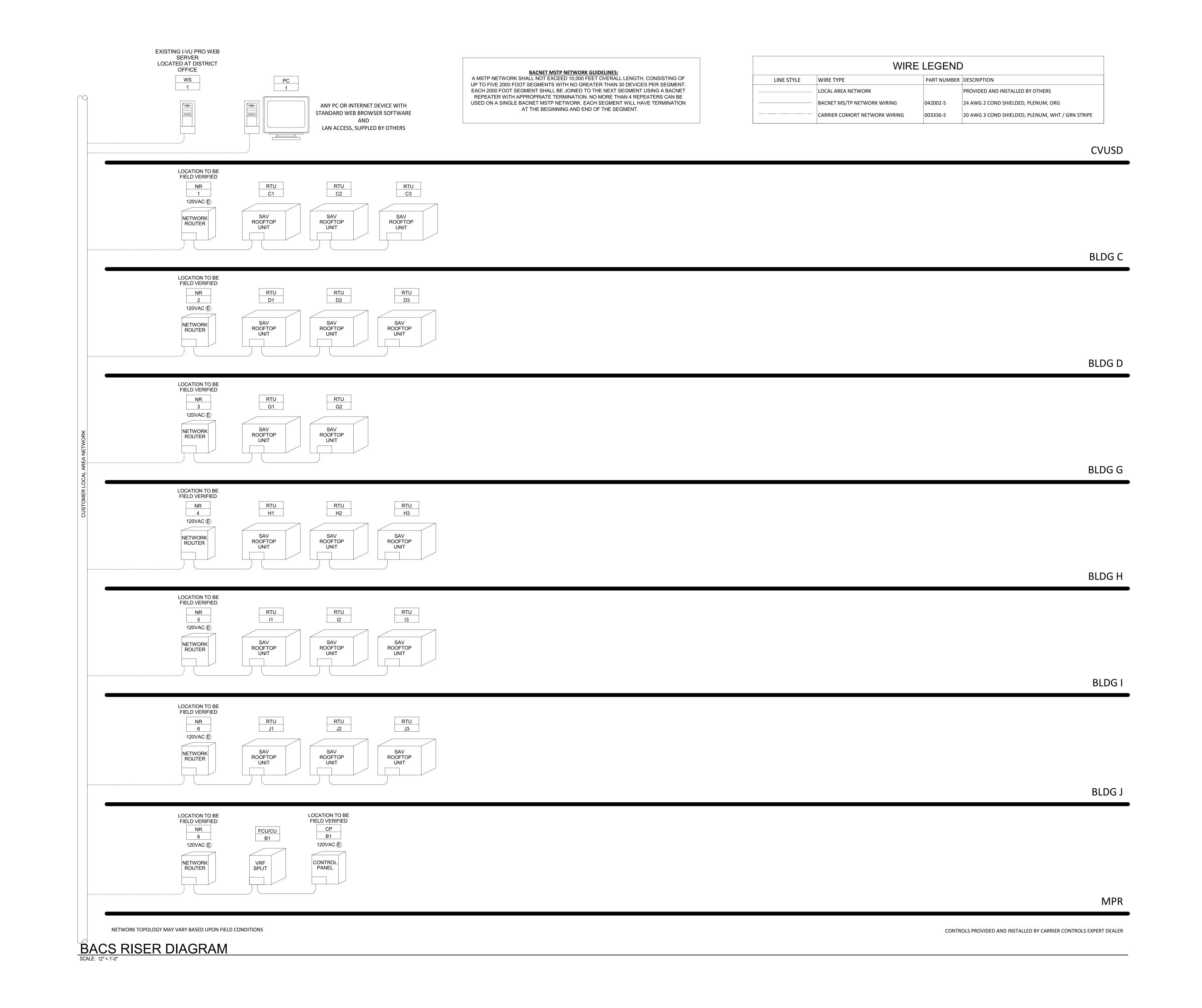
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CONTROLS DIAGRAMS

M5.1





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CONTROLS DIAGRAMS

RETURN AIR CONTROLLER (TCB-IFDA1GUL) HEAT PUMP CARRIER NATIVE BACNET CONTROLLER BACNET MS/TP CONTROLS PROVIDED AND INSTALLED BY CARRIER CONTROLS EXPERT DEALER

SPLIT SYSTEM DETAIL (FCU/CU-B1)

EF S/S (BO) EF STAT (BI) CARRIER NATIVE BACNET CONTROLLER

CONTROLS PROVIDED AND INSTALLED BY CARRIER CONTROLS EXPERT DEALER CONTROL PANEL SHALL CONFORM TO UL 508A STANDARDS

EXHAUST FAN DETAIL (EF-B1)

SCALE NONE

SCALE NONE

HEAT PUMP ONE OUTSIDE AIR
TEMPERATURE
SENSOR PER SITE CARRIER NATIVE BACNET CONTROLLER BACNET MS/TP

CONTROLS PROVIDED AND INSTALLED BY CARRIER CONTROLS EXPERT DEALER

TEMPERATURE SETPOINT

SPACE TEMPERATURE

SCHEDULE

SUPPLY FAN COMMAND

SUPPLY FAN SPEED STATUS

TEMPERATURE SETPOINT STATUS

INDOOR UNIT MODE STATUS

INDOOR UNIT MODE COMMAND

INDOOR UNIT MALFUNCTION CODE

OUTDOOR UNIT COMPRESSOR SPEED

OUTDOOR UNIT MALFUNCTION CODE

TOTALS

OUTDOOR UNIT MODE STATUS

**VRF BACNET GATEWAY POINTS** 

SOFTWARE POINTS

× ×

TOTAL SOFTWARE (20)

×

×

×

×

AI AO BI BO AV BV SCHED TREND ALARM GRAPHIC

0 0 0 11 0 1 2 6 12

| × |

| × |

| × |

| × |

| x |

HARDWARE POINTS

TOTAL HARDWARE (0)

50FCQ HEAT PUMP DETAIL (RTU-C1 THRU RTU-C3, RTU- D1 THRU RTU-D3, RTU-G1 THRU RTU-G2, RTU-H1 THRU RTU-H3, RTU-I1 THRU RTU-I3, AND RTU-J1 THRU RTU-J3)

#### **SEQUENCES OF OPERATION**

HEAT PUMP RTU (RTU-C1, RTU-C2, RTU- D1 THRU RTU-D3, RTU-G1 THRU RTU-G3, RTU-H1 THRU RTU-H3, RTU-H1 THRU RTU-I3, AND RTU-J1 THRU RTU-J3)

INDOOR FAN
THE FAN OPERATES AT A VARIABLE SPEED TO MEET THE LOAD CONDITIONS AND SAT SAFETY REQUIREMENTS TO PROVIDE MAXIMUM ENERGY SAVINGS BY MINIMIZING FAN HORSEPOWER CONSUMPTION. FAN SPEED IS NOT CONTROLLED BY STATIC PRESSURE.

**HEATING MODE** WHEN SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT, UNIT SHALL OPERATE IN THE HEATING MODE. UNIT SHALL STAGE AVAILABLE HEAT STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

**COOLING MODE** WHEN SPACE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT, UNIT SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE COOLING STAGES TO

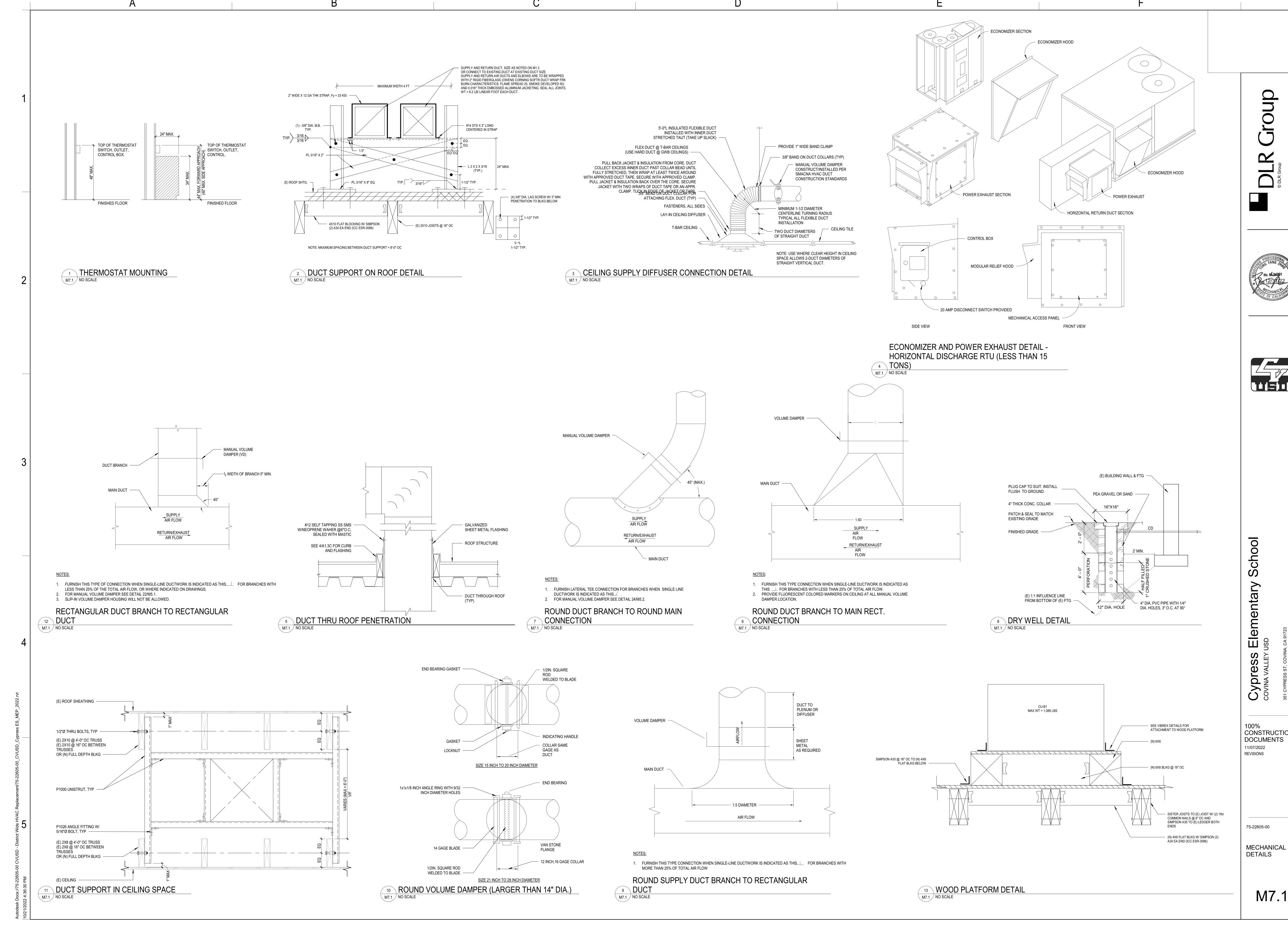
SATISFY DEMAND IN THE OCCUPIED SPACE.

CO2 CONTROL UNIT SHALL MONITOR SPACE CO2 WHEN THE SUPPLY FAN IS ENERGIZED. WHEN CO2 IS ABOVE SETPOINT OF 1000 PPM, AN ALARM SHALL BE ENABLED THROUGH THE EMS.

THE EXHAUST FAN SHALL RUN WHEN THE UNIT IS OCCUPIED.

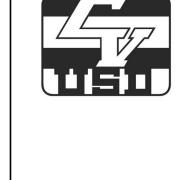
<sup>2</sup> BACS DETAIL1

1 BACS DETAIL 1 NO SCALE

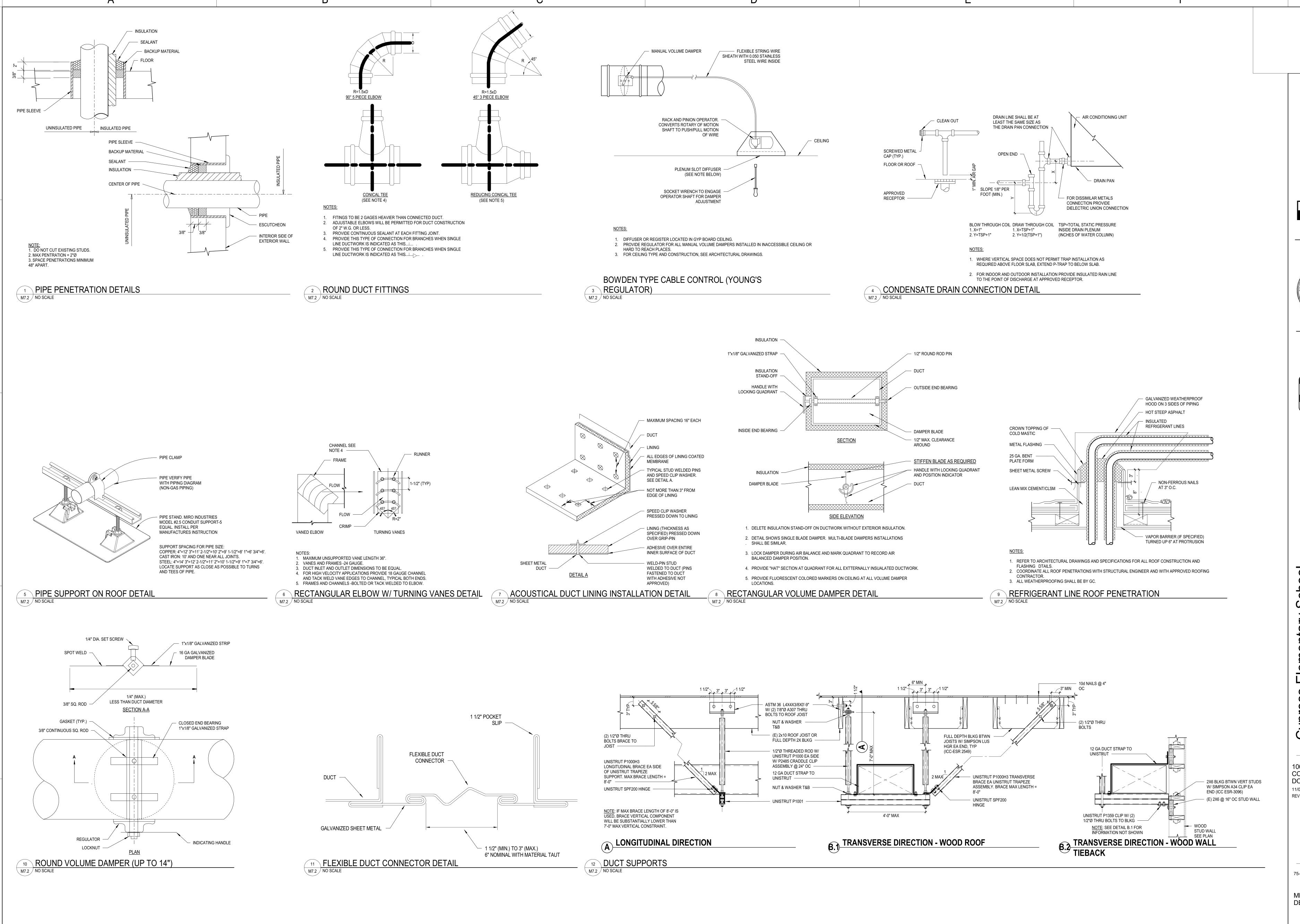








CONSTRUCTION







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MECHANICAL DETAILS

M7.2







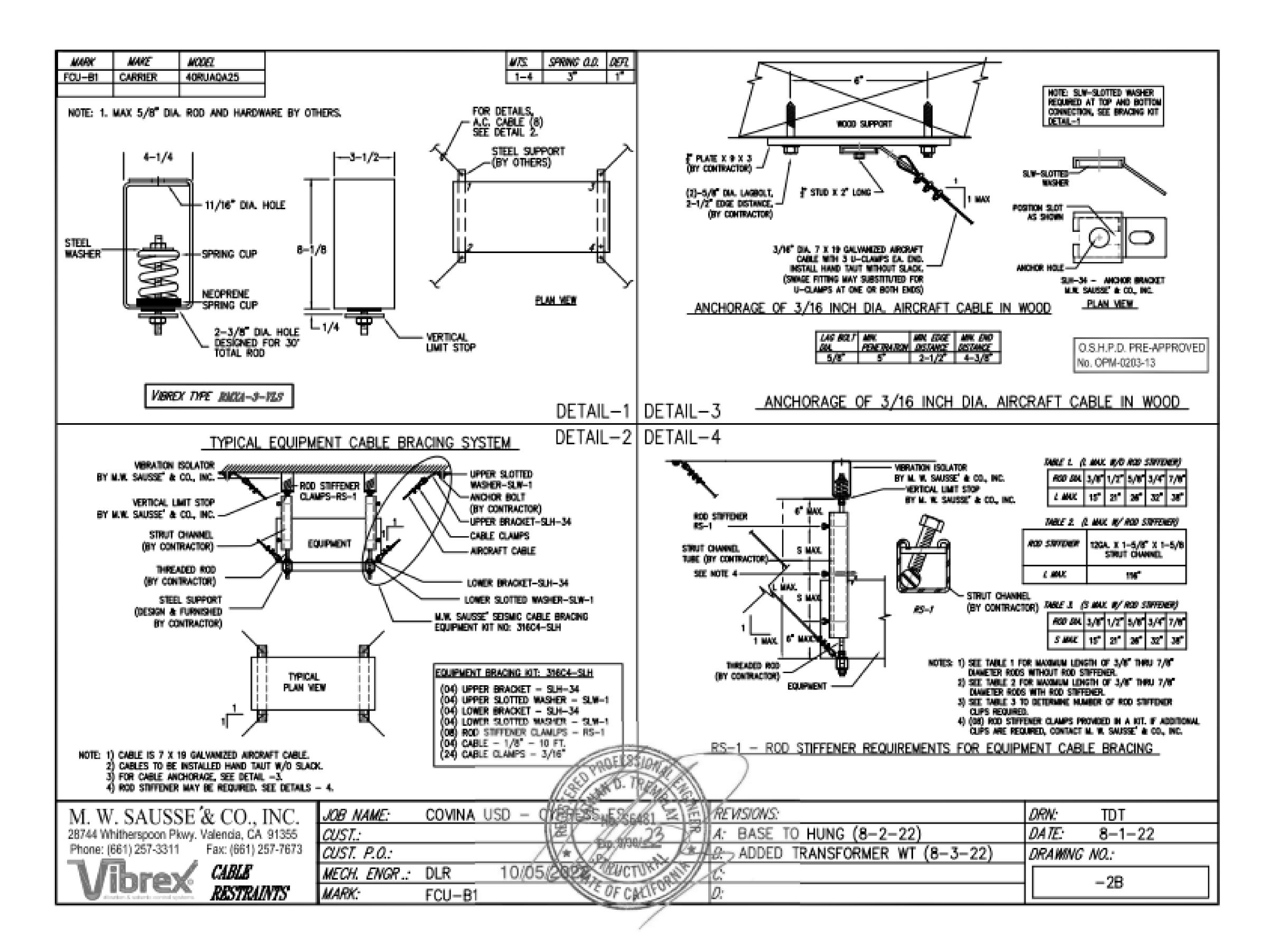
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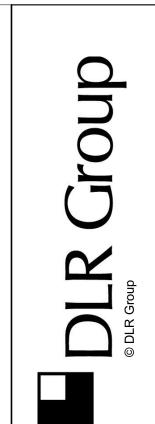
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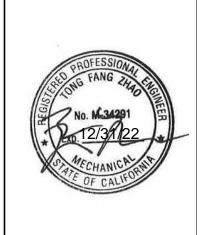
MECHANICAL DETAILS

M7.3



1 FCU STRUCTURAL DETAILS
M7.3 NO SCALE







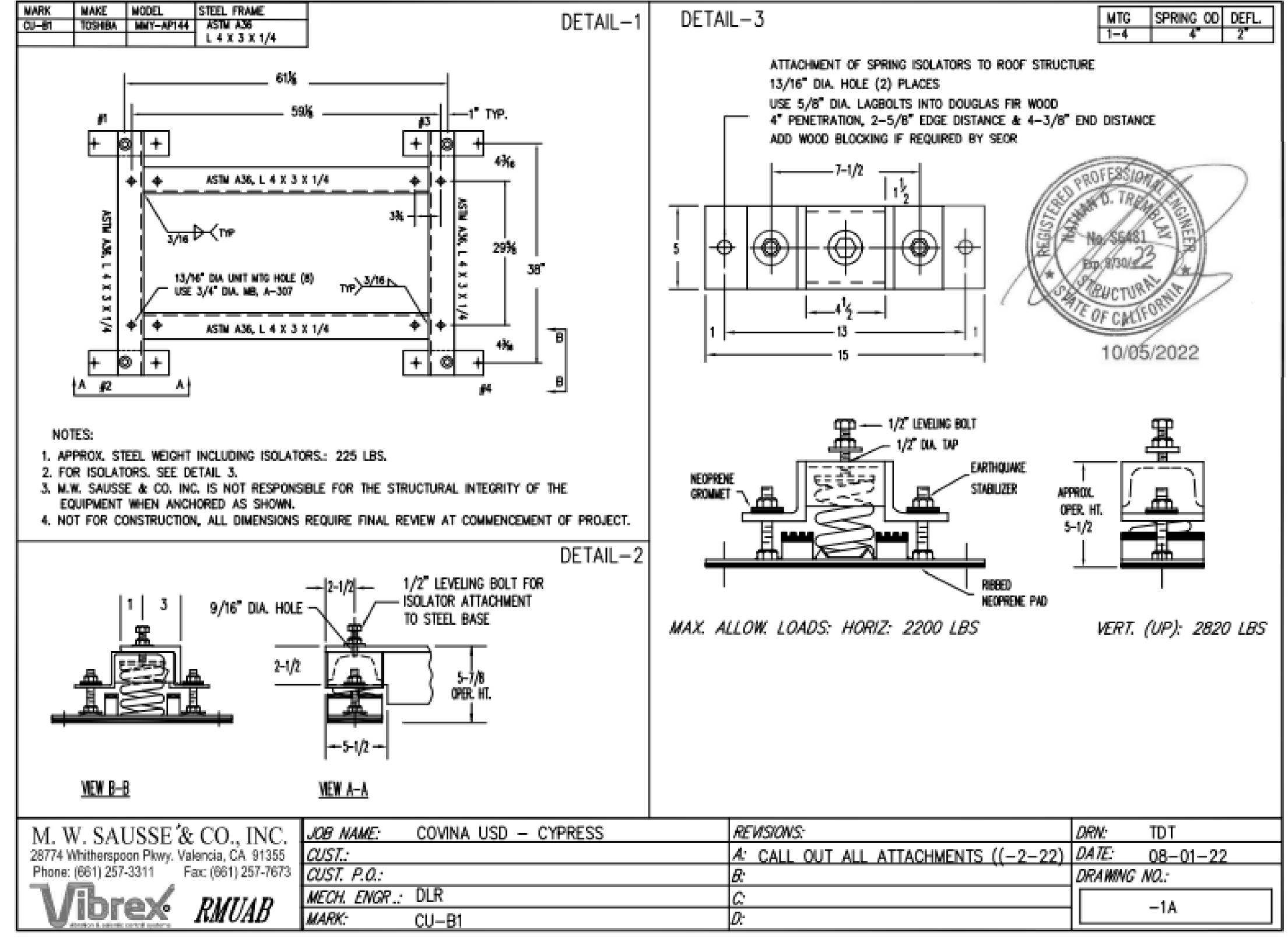
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MECHANICAL DETAILS

M7.4



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Elementary

Cypress COVINA VALLEY L 100% CONSTRUCTION DOCUMENTS

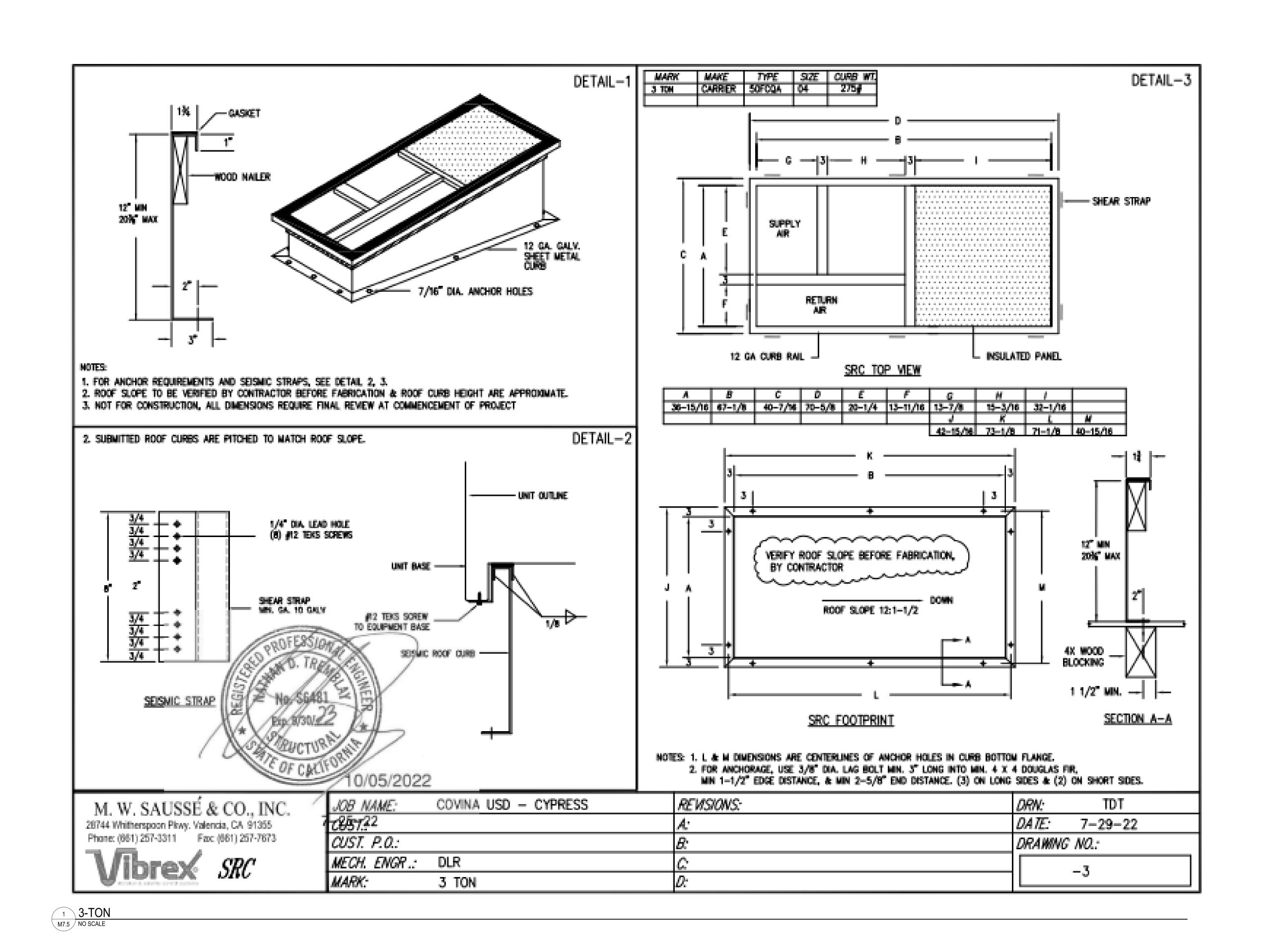
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11/07/2022 REVISIONS

DETAILS

MECHANICAL

M7.5



M8.1

			CYF	RESS EXIS	TING UNI	Т																N	EW UNIT												
TAGS	MAKE	E MODEL	CAPACITY (TONS)	GAS INPUT/OUTPUT (BTU/HR)		ELECTRICAL SINGLE CIRCUIT) WEIG		POWER EXHAUST		OPERATING /EIGHT (LBS)	ING DIRECT REPLACEMENT? Y/N	CARRIER MODEL#	NE	NET COOLING CAPACITY				ESP (IN SEER I	EER HEATING CAPACIT	TING ACITY NEW MERV RATING	FILTER QUANTITY & SIZE (W" X H" X D")	El	LECTRICAL	WEIGHT OUTSIDE AIR HOOD WEIGHT (LBS)		OOD ECONOMIZER			POWER EXHAUST		ROOF CURB WEIGHT		TOTAL WEIGHT (LBS)	UNIT DIMENSIONS (L" X W" X H")	ANCHORAGE DETAIL REFERENCE
				(BTO/TIRT)	V/PH	MCA		EXISTI V	WEIG		1/14		NOMINAL TON	TOTAL (BTUH)	SENSIBLE (BTUH)	SUPPLY	MIN OSA		(ME			V-PH	MCA MOCI	P LBS	(LDO)	REQUIRED?	WEIGHT	REQUIRED?	MODEL# M	ICA MOC	P WEIGHT	(LDO)	ĺ	(E XW XIII)	
RTU-C1 & RTU-C2 (BLDG. C)	SANYO	O CH3622	3.0	36000	208/1	50	218	NO	0	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1 14.3	11.32 34	1.1 13	2 (16X25X2)	208-1	26 30	469	12	NO	NA	YES	PCD-SRT12CA 7	7.1 12.8	8 152	98	731	75 X 47 X 34	1/M7.5
RTU-I1 THRU RTU-I4 (BLDG. I)	SANYO	O CH3622	3.0	36000	208/1	50	218	NO	0	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1 14.3	11.32 34	1.1 13	2 (16X25X2)	208-1	26 30	469	12	NO	NA	YES	PCD-SRT12CA 7	7.1 12.8	8 152	98	731	75 X 47 X 34	1/M7.5
RTU-J1 THRU RTU-J4 (BLDG. J)	SANYO	O CH3622	3.0	36000	208/1	50	218	NO	0	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1 14.3	11.32 34	1.1 13	2 (16X25X2)	208-1	26 30	469	12	NO	NA	YES	PCD-SRT12CA 7	7.1 12.8	8 152	98	731	75 X 47 X 34	1/M7.5
RTU-F1 THRU RTU-F3 (BLDG. F)	SANYO	O CH3622	3.0	36000	208/1	50	218	NO	0	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1 14.3	11.32 34	1.1 13	2 (16X25X2)	208-1	26 30	469	12	NO	NA	YES	PCD-SRT12CA 7	7.1 12.8	8 152	98	731	75 X 47 X 34	1/M7.5
RTU-G1 THRU RTU-G3 (BLDG. G)	SANYO	O CH3622	3.0	36000	208/1	50	218	NO	0	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1 14.3	11.32 34	1.1 13	2 (16X25X2)	208-1	26 30	469	12	NO	NA	YES	PCD-SRT12CA 7	7.1 12.8	8 152	98	731	75 X 47 X 34	1/M7.5
RTU-H1 THRU RTU-H4 (BLDG. H)	SANYO	O CH3622	3.0	36000	208/1	50	218	NO	0	218	Y	50FCQA04A2A3	3	35000	26150	1200	250	1 14.3	11.32 34	1.1 13	2 (16X25X2)	208-1	26 30	469	12	NO	NA	YES	PCD-SRT12CA 7	7.1 12.8	8 152	98	731	75 X 47 X 34	1/M7.5
CU-B1 (BLDG. B)	N/A											MMY-MAP1446HT6P-UL	12	141924	118368			23.85	12 160.	.546		460-3	25 35	838		NO	NA	NO	NA N	NA NA	NA NA		838	63 X 31 X 73	1/M7.4
FCU-B1A (BLDG. B)	N/A											MMD-AP0721HP-UL1	6	70962	59184	2236	600	1	80.2	273 13	2 (25X14X2)	208-1	5.7 15	218		NO	NA	NO	NA N	NA NA	NA NA		218	56 X 36 X 18	1/M7.3
FCU-B1B (BLDG. B)	N/A											MMD-AP0721HP-UL1	6	70962	59184	2236	600	1	80.2	273 13	2 (25X14X2)	208-1	5.7 15	218		NO	NA	NO	NA N	NA NA	NA NA		218	56 X 36 X 18	1/M7.3

NOTES:

1. PROVIDE MECHANICAL UNIT WITH INTEGRAL CONVENIENCE RECEPTACLE.

2. ALL ROOFTOP UNITS SHALL BE PROVIDED WITH UNPOWERED CONVENIENCE OUTLET. 3. ALL ROOFTOP UNITS ARE HORIZONTALLY DISCHARGED CONFIGURATION, UNO. FIELD VERIFY PRIOR TO ORDERING.

PROVIDE HINGED ACCESS PANEL FOR ALL ROOFTOP UNITS.
 FINAL WEIGHT (LBS) IS SUMMATION OF RTU WEIGHT AND OUTSIDE AIR INTAKE, AS APPLICABLE.

6. SCCR RATING OF RTUS SHALL BE MINIMUM OF 10KA FOR CLASSROOM RTUS & MPR FCU-B1 AND 25KA FOR MPR CU-B1. 7. PROVIDE MANUFACTURER INSTALLED ACME ELECTRIC CE1000F010 TO FCU-B1A & FCU-B1B TO TRANSFER POWER FROM 460V TO 208V. THE POWER TO BE 460V/3PH AT 2.17 FLA.

DIFFUSER AND GRILLE SCHEDULE									
MARK NO.	MANUFACTURER & MODEL NO.	TYPE	OVERALL DIMENSIONS	NECK SIZE	CFM RANGE	MAX NC	MAX SP	NOTES	
CD-1	TITUS	CEILING	24"x24"	6"Ø	0 - 110	25	0.1		
	PAS	SUPPLY		8"Ø	111 - 190	25	0.1		
				10"Ø	191 - 280	25	0.1	1,2,3	
				12"Ø	281 - 350	25	0.1	1,2,0	
				14Ø	351 - 450	25	0.1		
				16"Ø	451 - 550	25	0.1		
RG-1	TITUS	CEILING	24"x24"	6"Ø	0 - 100	20	0.1		
	PAR	RETURN		8"Ø	101 - 175	20	0.1		
				10"Ø	176 - 275	20	0.1	100	
				12"Ø	276 - 380	20	0.1	1,2,3	
				14"Ø	381 - 500	20	0.1		
				16"Ø	501 - 570	20	0.1		

1. OBTAIN ARCHITECT'S APPROVAL FOR COLOR AND FINISH.
2. MATCH THE BORDER TYPE TO THE CEILING.
3. PROVIDE FLAT BLACK INTERNAL FINISH.

## DUCT SIZING SCHEDULE \*\*\* FOR LOW VELOCITY SUPPLY, RETURN AND EXHAUST

CFM RANGE	ROUND DUCT DIAMETER OR EQUIVALENT RECTANGULAR DUCT	CFM RANGE	ROUND DUCT DIAMETER OR EQUIVALENT RECTANGULAR DUCT
0-110	6" OR 8" X 4"	1400-1900	18" OR 24" X 12"
101-180	8" OR 10" X 6"	1900-2500	20" OR 24" X 14"
181-270	10" OR 10" X 8"	2500-3300	22" OR 32" X 14"
271-400	10" OR 12" X 8"	3300-4100	24" OR 36" X 14"
401-600	12" OR 12" X 10"	4100-5000	26" OR 40" X 16"
601-900	14" OR 16" X 10"	5000-6200	28" OR 48" X 16"
901-1400	16" OR 18" X 12"	6200-7500	30" OR 48" X 18"

DUCT SIZES INDICATED ARE INSIDE DIMENSIONS WHICH MAY BE ALTERED BY CONTRACTOR TO OTHER DIMENSIONS TO AVOID INTERFERENCES AND CLEARANCE REQUIREMENTS. USE EQUAL FRICTION METHOD,

0.1"WG PER 100FT. OF DUCT TO DETERMINE DUCT SIZES. VERIFY ALL DIMENSIONS AT THE SITE, MAKE ALL FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND ERECTION OF SHEET METAL WORK. MAKE ALLOWANCES FOR BEAMS, PIPE OR OTHER OBSTRUCTION AND FOR WORK BY OTHER TRADES AND NOTIFY THE ARCHITECT IN THE EVENT OF ANY POTENTIAL INTERFERENCE. MAKE AN INITIAL VERIFICATION OF BEAM PENETRATIONS SHOWN ON STRUCTURAL DRAWINGS AND ADVISE OF ANY POTENTIAL INTERFERENCES.

	ΔIR	VELOCITY GU	IDELINES (FPM	1)							
LOCATION	NOISE CRITERIA (NC)										
LOCATION	40	35	30	25	20	15					
MAIN SUPPLY DUCT	1700	1500	1000	800	700	600					
MAIN RETURN DUCT	1200	1000	750	600	500	400					
DUCT TO GRILLE SUPPLY	600	500	400	300	250	200					
DUCT TO GRILLE RETURN	600	500	400	300	250	200					

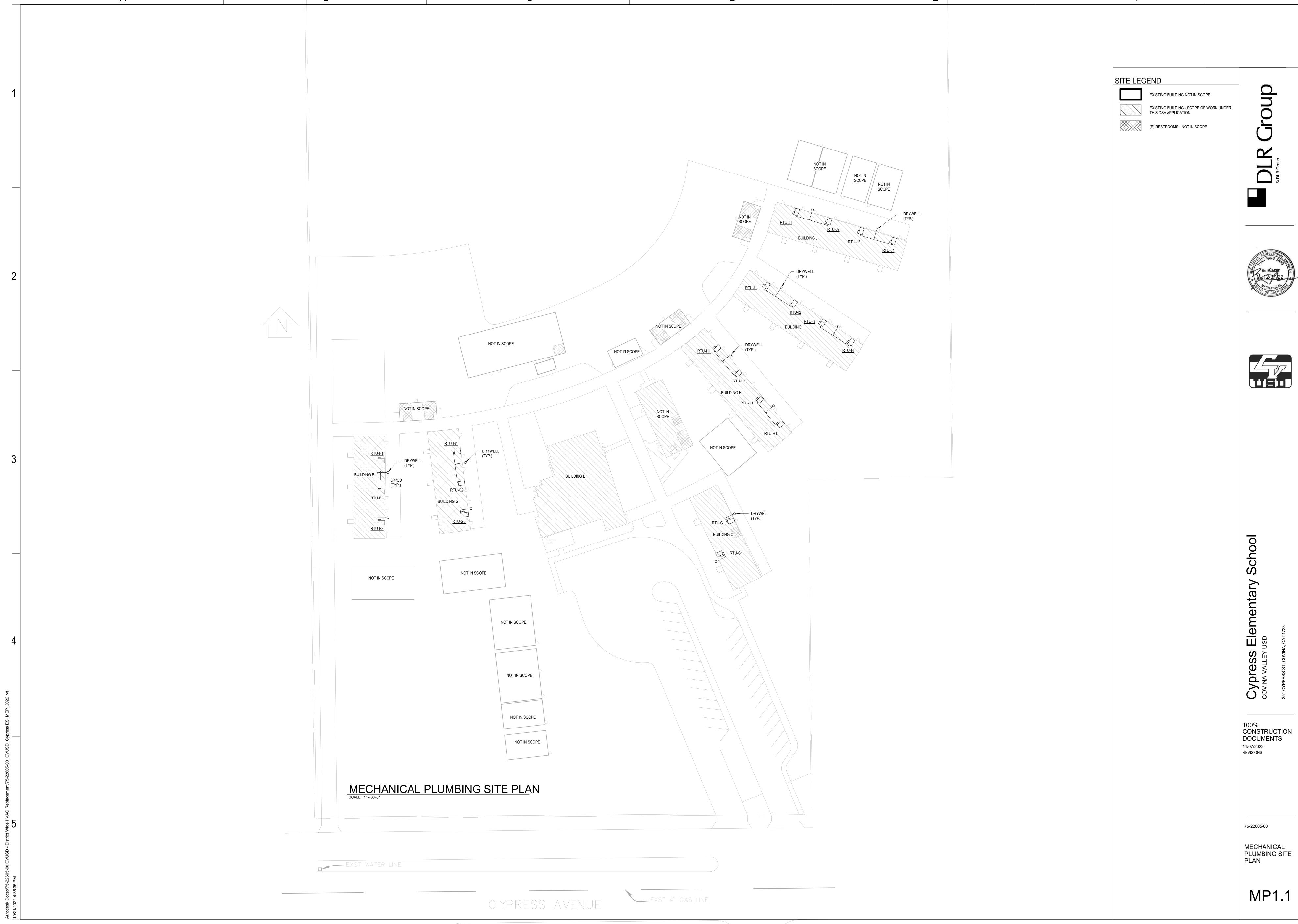
## DUCT SIZING \*\*\* MEDIUM PRESSURE DUCTWORK

	CFM	ROUND DUCT (IN)	RECTANGULAR DUCT (IN) (W IS DUCT WIDTH)										
			WX4	WX6	WX8	WX10	WX12						
	UP TO 150	6	8	6	Х	Х	Х						
	151-280	8	10	10	8	Х	Х						
	281-500	10	Х	16	12	10	Х						
	501-800	12	Х	Х	16	12	Х						
	801-1200	14	Х	Х	22	16	14						

DUCT SIZES INDICATED ARE INSIDE DIMENSIONS WHICH MAY BE ALTERED BY CONTRACTOR TO OTHER DIMENSIONS TO AVOID INTERFERENCES AND CLEARANCE REQUIREMENTS. USE EQUAL FRICTION METHOD, 0.1"WG PER 100FT. OF DUCT TO DETERMINE

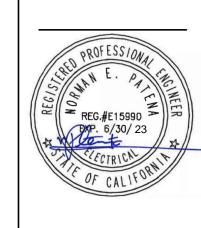
VERIFY ALL DIMENSIONS AT THE SITE, MAKE ALL FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND ERECTION OF SHEET METAL WORK. MAKE ALLOWANCES FOR BEAMS, PIPE OR OTHER OBSTRUCTION AND FOR WORK BY OTHER TRADES AND NOTIFY THE ARCHITECT IN THE EVENT OF ANY POTENTIAL INTERFERENCE. MAKE AN INITIAL VERIFICATION OF BEAM PENETRATIONS SHOWN ON STRUCTURAL DRAWINGS AND ADVISE OF ANY POTENTIAL INTERFERENCES.

							FA	N S	CH	ED	UL	E							
NOTES: 1. 2. 3. 4.																			
						FAN DATA						ELEC	TRICAL	ATA			BASIS OF I	DESIGN	
ID	TYPE	ARRANGEMENT	AIR FLOW (CFM)	ESP (IN WG)	RPM	DRIVE TYPE		МО	TOR		FLA (A)	MCA (A)	MOCP (A)	VOLT (V)	PH	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
			DESIGN	(114 440)			QTY	HP	RPM	ECM	(7.7)	(* ')	(* ')	(-/					









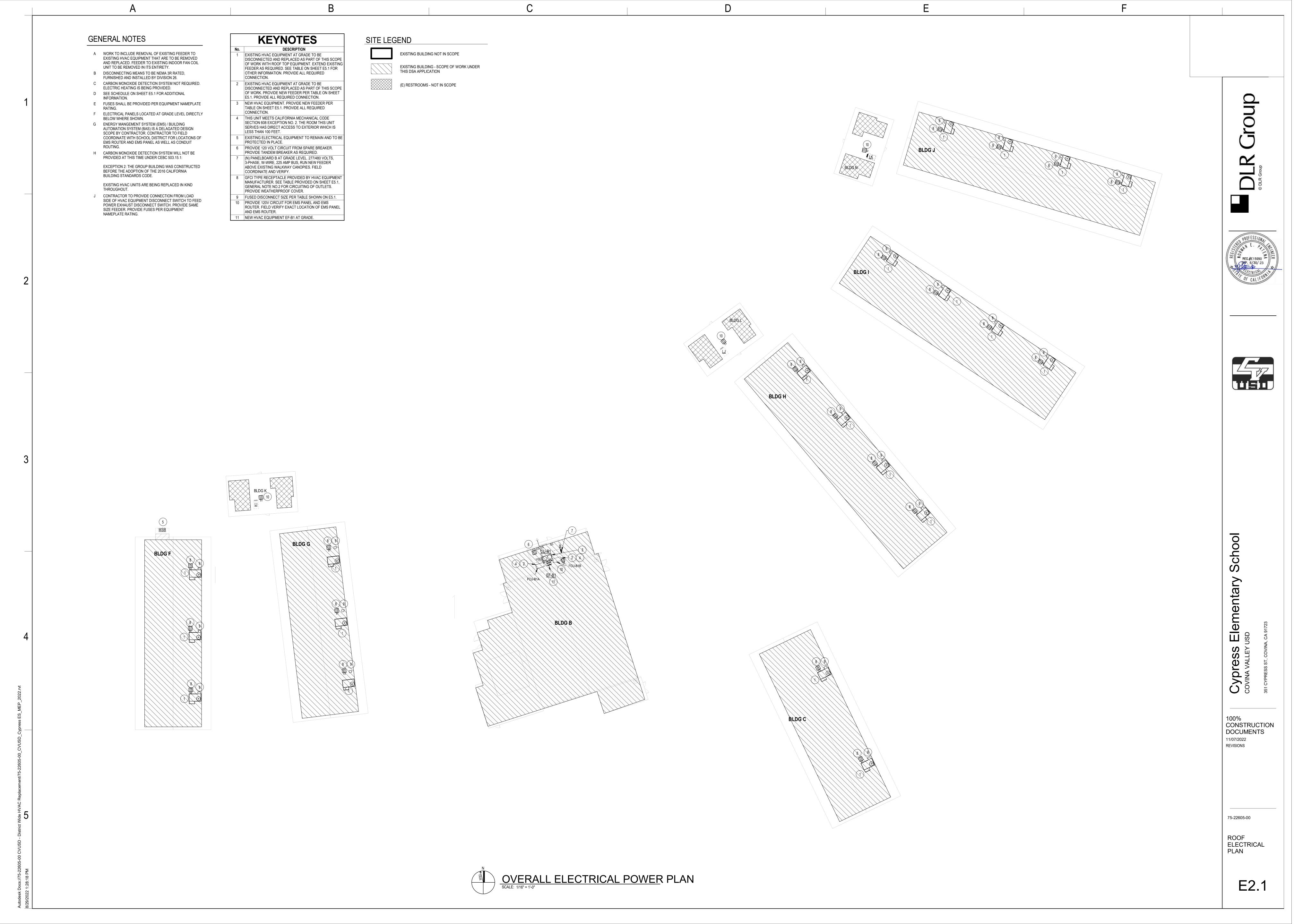


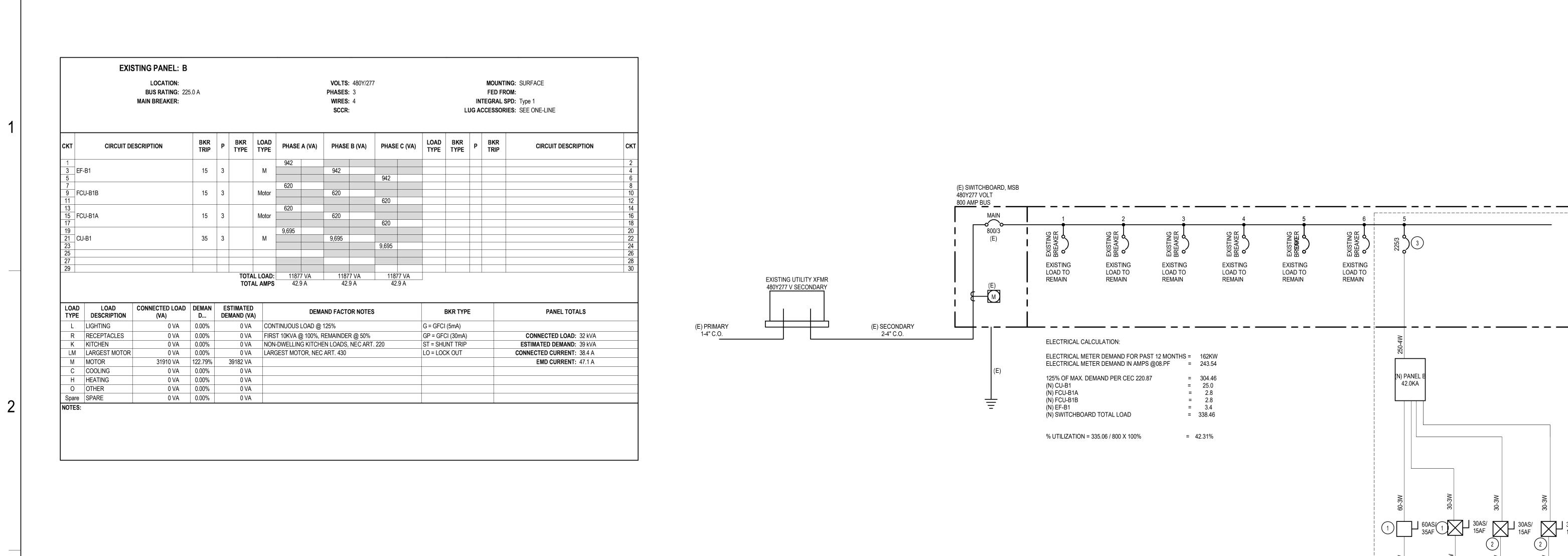
CONSTRUCTION **DOCUMENTS** 11/07/2022 REVISIONS

**a** ₹

75-22605-00

ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES





									CYPRESS	ES AC	UNIT R	EPLA	CEMEN	T								
			E	KISTING L	JNIT				NEW UNIT													
TAGS		ELECTRICAL							DIDECT DEDI A CEMENTO VAN	0514	ELECTRICAL						POWER EXHAUST NOTE					
	V/PH	MCA	FLA	MOCP	PANEL/ CKT#	FEEDER SIZE	DISCONNECT	TAGS	DIRECT REPLACEMENT? Y/N	CFM	V-PH	MCA	MOCP	PANEL/ CKT#	DISCONNECT	FEEDER	REQUIRED?	Model#	MCA	MOCP	FEEDER SIZE	DISCONNECT
NA	NA	NA	NA	NA	NA	NA	-	CU-B1 (BLDG. B)	NO		460-3	25	35	B-1,3,5	60A (35A FUSE)	3#6+1#10GND-0.75"C	NO				NA	
NA	NA	NA	NA	NA	NA	NA	-	FCU-B1A (BLDG. B)	NO	2,236	460-3	2.8	15	B-7,9,11	30A (15A FUSE)	3#12, 1#12GND-0.75"C	NO				NA	
NA	NA	NA	NA	NA	NA	NA	-	FCU-B1B (BLDG. B)	NO	2,236	460-3	2.8	15	B-13,15,17	30A (15A FUSE)	3#12, 1#12GND-0.75"C	NO				NA	
CU/FCU-C1 (BLDG C)	208/1	22.875	18.3	30	LJ-1,3	2#10, 1#10GND-0.75"C	30	RTU-C1	Υ	1,200	208-1	26	30	LJ-1,3	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-C2 (BLDG C)	208/1	22.875	18.3	30	LJ-2,4	2#10, 1#10GND-0.75"C	30	RTU-C2	Υ	1,200	208-1	26	30	LJ-2,4	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-F1 (BLDG F)	208/1	22.875	18.3	30	LI-1,3	2#10, 1#10GND-0.75"C	30	RTU-F1	Y	1,200	208-1	26	30	LI-1,3	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-F2 (BLDG F)	208/1	22.875	18.3	30	LI-2,4	2#10, 1#10GND-0.75"C	30	RTU-F2	Υ	1,200	208-1	26	30	LI-2,4	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-F3(BLDG F)	208/1	22.875	18.3	30	LI-5,7	2#10, 1#10GND-0.75"C	30	RTU-F3	Υ	1,200	208-1	26	30	LI-5,7	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-G1 (BLDG G)	208/1	22.875	18.3	30	LI-9,11	2#10, 1#10GND-0.75"C	30	RTU-G1	Υ	1,200	208-1	26	30	LI-9,11	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-G2 (BLDG G)	208/1	22.875	18.3	30	LI-13,15	2#10, 1#10GND-0.75"C	30	RTU-G2	Υ	1,200	208-1	26	30	LI-13,15	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-G3 (BLDG G)	208/1	22.875	18.3	30	LI-17,19	2#10, 1#10GND-0.75"C	30	RTU-G3	Υ	1,200	208-1	26	30	LI-17,19	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-H1 (BLDG H)	208/1	22.875	18.3	30	LK-1,3	2#10, 1#10GND-0.75"C	30	RTU-H1	Υ	1,200	208-1	26	30	LK-1,3	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-H2 (BLDG H)	208/1	22.875	18.3	30	LK-2,4	2#10, 1#10GND-0.75"C	30	RTU-H2	Υ	1,200	208-1	26	30	LK-2,4	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-H3 (BLDG H)	208/1	22.875	18.3	30	LK-5,7	2#10, 1#10GND-0.75"C	30	RTU-H3	Υ	1,200	208-1	26	30	LK-5,7	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-H4 (BLDG H)	208/1	22.875	18.3	30	LK-6,8	2#10, 1#10GND-0.75"C	30	RTU-H4	Υ	1,200	208-1	26	30	LK-6,8	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-I1 (BLDG I)	208/1	22.875	18.3	30	LK-9,11	2#10, 1#10GND-0.75"C	30	RTU-I1	Υ	1,200	208-1	26	30	LK-9,11	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-I2 (BLDG I)	208/1	22.875	18.3	30	LK-10,12	2#10, 1#10GND-0.75"C	30	RTU-I2	Υ	1,200	208-1	26	30	LK-10,12	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-I3 (BLDG I)	208/1	22.875	18.3	30	LK-13,15	2#10, 1#10GND-0.75"C	30	RTU-I3	Υ	1,200	208-1	26	30	LK-13,15	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-I4 (BLDG I)	208/1	22.875	18.3	30	LK-14,16	2#10, 1#10GND-0.75"C	30	RTU-I4	Υ	1,200	208-1	26	30	LK-14,16	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-J1 (BLDG J)	208/1	22.875	18.3	30	LK-17,19	2#10, 1#10GND-0.75"C	30	RTU-J1	Υ	1,200	208-1	26	30	LK-17,19	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-J2 (BLDG J)	208/1	22.875	18.3	30	LK-18,20	2#10, 1#10GND-0.75"C	30	RTU-J2	Υ	1,200	208-1	26	30	LK-18,20	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-J3 (BLDG J)	208/1	22.875	18.3	30	LK-21,23	2#10, 1#10GND-0.75"C	30	RTU-J3	Υ	1,200	208-1	26	30	LK-21,23	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)
CU/FCU-J4 (BLDG J)	208/1	22.875	18.3	30	LK-22,24	2#10, 1#10GND-0.75"C	30	RTU-J4	Υ	1,200	208-1	26	30	LK-22,24	30A (30A FUSE)	-	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75"C	20A (15A FUSE)

ENERAL NOTES:	
1	_

- CONTRACTOR TO FIELD VERIFY CIRCUITING AND FEEDER INFORMATION PRIOR TO EQUIPMENT REMOVAL. CONTRACTOR TO PROVIDE REQUIRED ADJUSTMENTS AS NEEDED.
- POWER NO MORE THAN 10 RECEPTACLES ON ONE CIRCUIT. FIELD VERIFY EXACT LOCATION OF NEAREST PANEL AND ROUTE OF NEW CIRCUIT FROM PANEL TO UNIT RECEPTACLE.
- CONTRACTOR TO DEMOLISH POWER CONNECTION FROM CONDENSING UNITS, FAN COIL UNITS AND CONDENSATE PUMPS. DEMOLITION TO CONSIST OF REMOVAL OF POWER CONNECTION, CABLING, AND CONDUIT BACK TO SOURCE UNLESS NOTED OTHERWISE.

One-Line Diagram

E5.1 NO SCALE

FIELD COORDINATE EQUIPMENT MANUFACTURER FOR FAULT CURRENT LIMITING FUSE TYPES

GENERAL	SINGLE	LINE	NO	ΓΕ
---------	--------	------	----	----

- 1 OVERCURRENT DEVICES OF ENTIRE DISTRIBUTION SYSTEM SHALL MEET STATED FAULT CURRENT VALUES WITH FULLY RATED EQUIPMENT. 2 CONDUCTOR LENGTHS INDICATED ON THE SINGLE LINE DIAGRAM ARE FOR FAULT CURRENT CALCULATIONS ONLY. ACTUAL LENGTH SHALL BE DETERMINED
- BY FIELD CONDITIONS AND ACTUAL ROUTES OF FEEDERS. 3 REFER TO SWITCHBOARD SCHEDULES AND DISTRIBUTION PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS. WHERE A DISCREPANCY EXISTS BETWEEN EQUIPMENT ON THE SINGLE LINE DIAGRAM AND THE DETAILED SCHEDULES, THE ITEM OR ARRANGEMENT WITH BETTER QUALITY, GREATER QUANTITY, OR HIGHER COST SHALL BE USED.
- ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. REFER TO THE MOTOR AND SPECIAL CONNECTION SCHEDULE FOR ALL FEEDERS DESIGNATED "EQ".

FEEDER SCHEDULE - COPPER

MARK # SETS Ø&N GND

CONDUIT SIZE

MARK SUFFIX

1-1/4" 1-1/4"

8 1-1/4" 1-1/4"

2 600 1/0 3-1/2" 3" 2-1/2"

4000 10 600 500 4" 3-1/2" 3"

GND EQUIPMENT GROUNDING CONDUCTOR -4W FOUR WIRE + GROUND (3Ø,N,GND)

-3W THREE WIRE + GROUND (3Ø,GND or 2Ø,N,GND)

CONDUCTOR AMPACITIES ARE BASED ON NEC

CONDUIT SIZES ARE BASED ON A MAXIMUM FILL

SCHEDULE SHALL BE USED FOR FEEDERS AND BRANCH CIRCUITS WHERE APPLICABLE. ALL FEEDERS AND BRANCH CIRCUITS SHALL

INCLUDE AN EQUIPMENT GROUNDING CONDUCTOR. SCHEDULE IS VALID FOR TYPE THHN, THWN-2, AND

XHHW-2 CONDUCTORS. SEE SPECIFICATIONS FOR

SCHEDULE IS VALID FOR TYPE EMT, IMC, FMC, LFMC, HDPE, AND RNC-40 RACEWAYS. SEE SPECIFICATIONS FOR RACEWAY APPLICATIONS.

OPTIONAL CONFIGURATIONS (1 OR 2 SETS) ARE

CONDUCTOR TYPES REQUIRED.

GIVEN FOR SOME SIZES. NOT ALL SIZES USED.

ABBREVIATIONS:

N NEUTRAL

-2W TWO WIRE + GROUND

TABLE 310.15(B)(16).

RATIO OF 40%.

12 12 3/4" 3/4" 3/4"

GROUNDING ELECTRODE CONDUCTORS SIZES ARE NOT INDICATED ON THE SINGLE LINE DIAGRAM ARE. REFER TO THE GROUNDING RISER DIAGRAM FOR CONNECTIONS AND CONDUCTOR SIZES.

#### **KEYNOTES**

- DESCRIPTION FUSED DISCONNECT TO BE PROVIDED BY CONTRACTOR VARIABLE FREQUENCY DRIVE WITH ON/OFF SWITCH TO BE PROVIDED UNDER DIVISION 23.
- VARIABLE FREQUENCY DRIVE WITH ON/OFF SWITCH TO BE PROVIDED UNDER DIVISION 23. 3 CONTRACTOR TO MATCH EXISTING BREAKER

M

FCU-B1A

SCOPE OF NEW

WORK

FCU-B1B

<u>EF-B1</u>





 
 1
 12
 12
 3/4"
 3/4"
 3/4"

 1
 10
 10
 3/4"
 3/4"
 3/4"

 1
 10
 10
 3/4"
 3/4"
 3/4"
 1 8 10 3/4" 3/4" 3/4" 
 1
 4
 10
 1-1/4"
 1"
 3/4"

 1
 4
 8
 1-1/4"
 1"
 3/4"
 1 1 8 1-1/2" 1-1/2" 1-1/4" 125 1 1 6 1-1/2" 1-1/4" 1 3/0 6 2" 2" 1-1/2" 1 4/0 4 2-1/2" 2" 1-1/2" 1 500 3 3-1/2" 3" 2-1/2" 
 1
 600
 3
 3-1/2"
 3"
 2-1/2"

 2
 3/0
 3
 2"
 2"
 1-1/2"
 2 4/0 2 2-1/2" 2" 1-1/2" 
 2
 250
 2
 2-1/2"
 2-1/2"
 2"

 2
 350
 1
 3"
 2-1/2"
 2"

 2
 500
 1/0
 3-1/2"
 3"
 2-1/2"

 1000
 3
 400
 2/0
 3"
 3"
 2-1/2"

 1200
 3
 600
 3/0
 3-1/2"
 3-1/2"
 3"

 1600
 4
 600
 4/0
 3-1/2"
 3-1/2"
 3"

 2000
 5
 600
 250
 4"
 3-1/2"
 3"

 2500
 6
 600
 350
 4"
 3-1/2"
 3"

 3000
 8
 500
 400
 3-1/2"
 3"
 2-1/2"

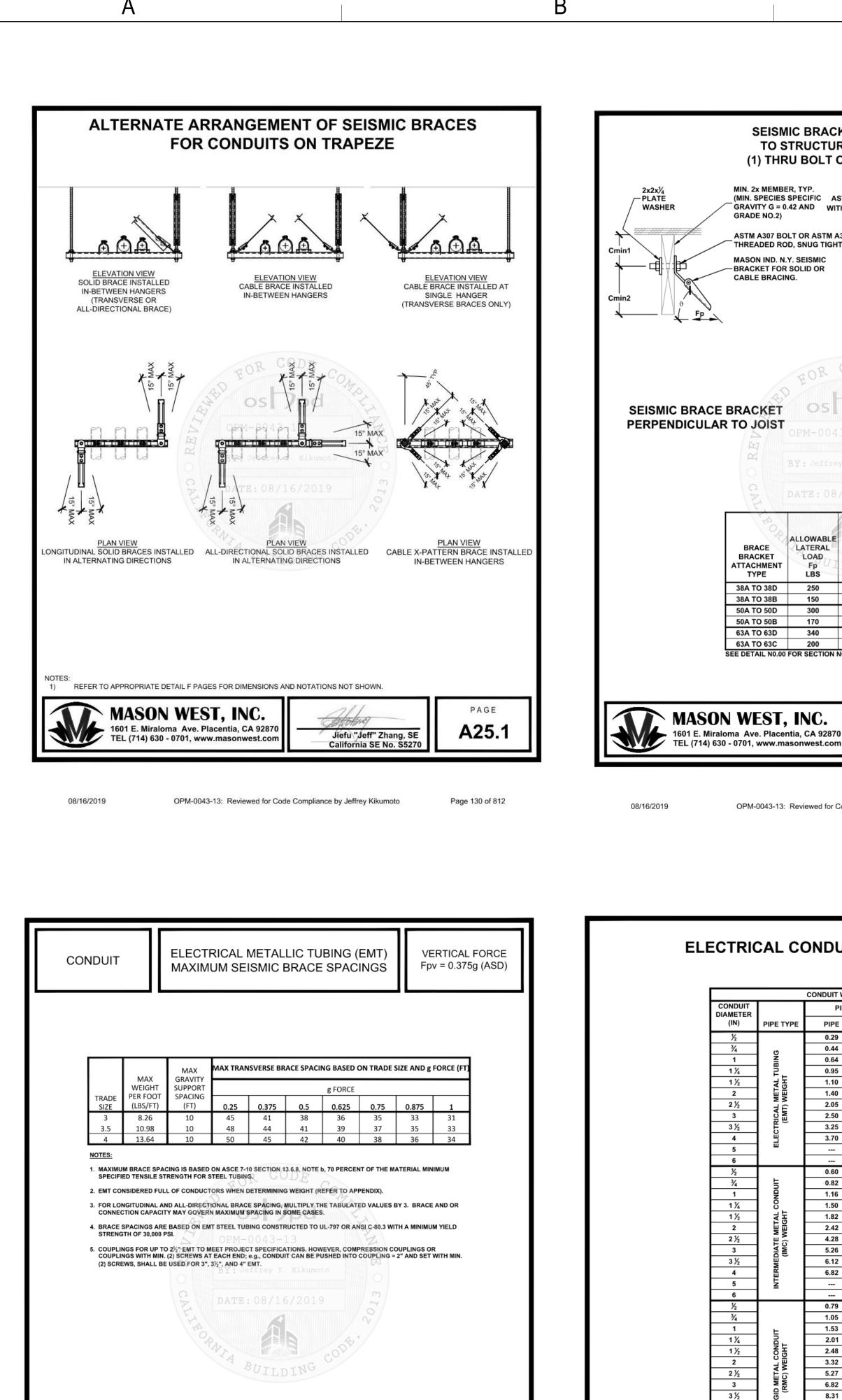
> CONSTRUCTION DOCUMENTS 11/07/2022 **REVISIONS**

SS LEY

ypre:

75-22605-00

ELECTRICAL **DIAGRAMS AND** SCHEDULE



MASON WEST, INC.

08/16/2019

1601 E. Miraloma Ave. Placentia, CA 92870

TEL (714) 630 - 0701, www.masonwest.com

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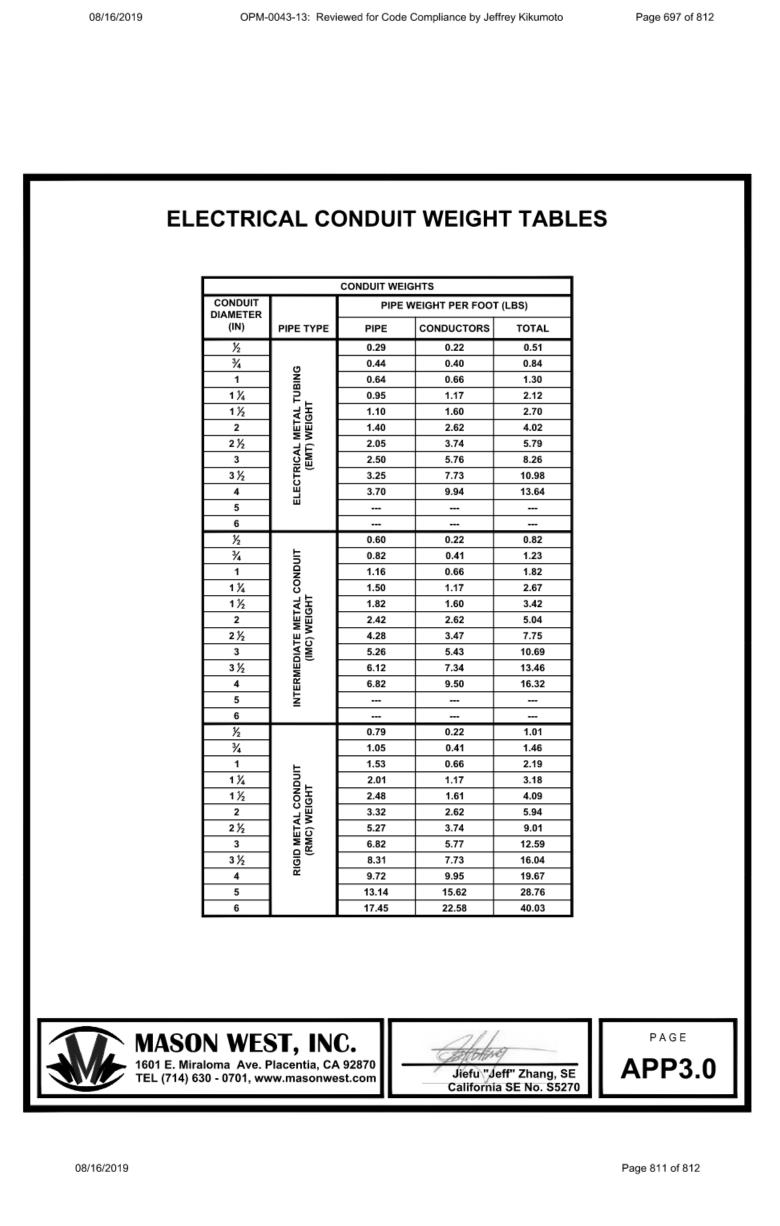
**S2.0** 

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Jiefu "Jeff" Zhang, St

California SE No. S5270

OPM-0043-13: Reviewed for Code Compliance by Jeffrey Kikumoto



SEISMIC BRACKET ATTACHMENT

TO STRUCTURAL TIMBER WITH

(1) THRU BOLT OR THREADED ROD

ON BACK SIDE OF 4x6/

\_\_\_\_\_ 24" MAX. —

SEISMIC BRACE BRACKET

PARALLEL TO JOIST

EDGE

INCH INCH INCH

Jiefu "Jeff" Zhang, SE

California SE No. S5270

MIN. 2x MEMBER, TYP. ASTM A307 BOLT OR

(MIN. SPECIES SPECIFIC ASTM A36 THREADED ROD,

GRAVITY G = 0.42 AND WITH 2x2x1/4 PLATE WASHER

ASTM A307 BOLT OR ASTM A36

-BRACKET FOR SOLID OR

CABLE BRACING.

ATTACHMENT

38A TO 38B

50A TO 50B

THREADED ROD, SNUG TIGHT TYP.

LOAD BRACE Fp RANGE

150 46°- 60°

300 30°- 45° 170 46°- 60°

63A TO 63D 340 30°- 45° 63A TO 63C 200 46°- 60° SEE DETAIL NO.00 FOR SECTION NOTES

NAIL THROUGH JOIST TO END OF 4x6 WITH 6-12d COMMON NAILS

6-40d COMMON NAILS

FOR 4x JOISTS WITH

MAX 4xJOIST, TYP.

— SPECIFIC GRAVITY (

= 0.42 AND GRADE

4x6 (MIN. SPECIES

SPECIFIC GRAVITY

G = 0.42 AND GRADE

ADDITIONAL BLOCKIN

OF WOOD JOIST TO BE

ENGINEER OF RECORD

PAGE

N4.10

DESIGNED BY THE

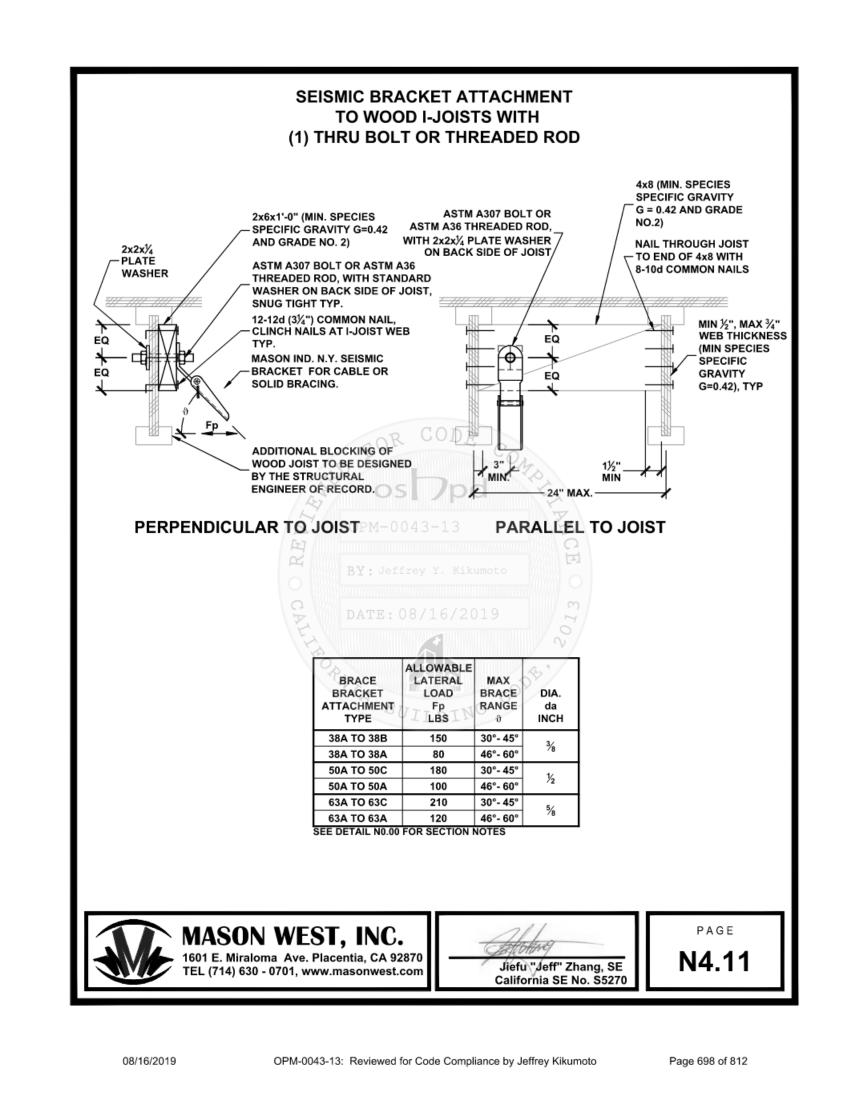
STRUCTURAL

−FOR 2x JOISTS,

MIN. EDGE 4D

(MIN. SPECIES

NO.2)



DOUBLE TOP PL -

SIMPSON A34

(T&B) EA END

SIMPSON A34 -

WALL MOUNTED EQUIP

SEE ARCHITECTURAL, MECHANICAL AND **ELECTRICAL DRAWINGS** PROVIDE WD BACKING AND ANGLES PER

(T&B) EA END

SCHED

TYP

4x BLOCKING

SIMPSON A34 -

DOUBLE STUDS -LAMINATE STUDS

W/ 10d FACE NAILS

NOTES:

1. MAXIMUM WEIGHT OF EQUIPMENT UNIT NOT TO EXCEED 500 LBS.

2. COORDINATE EXACT LOCATIONS WITH MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS.

**SECTION** 

1 TYP WALL EQUIPMENT BACKING

AT 6" OC

SILL PL -

E6.1 NO SCALE

(T&B) EA END

1' - 0" MAX TO

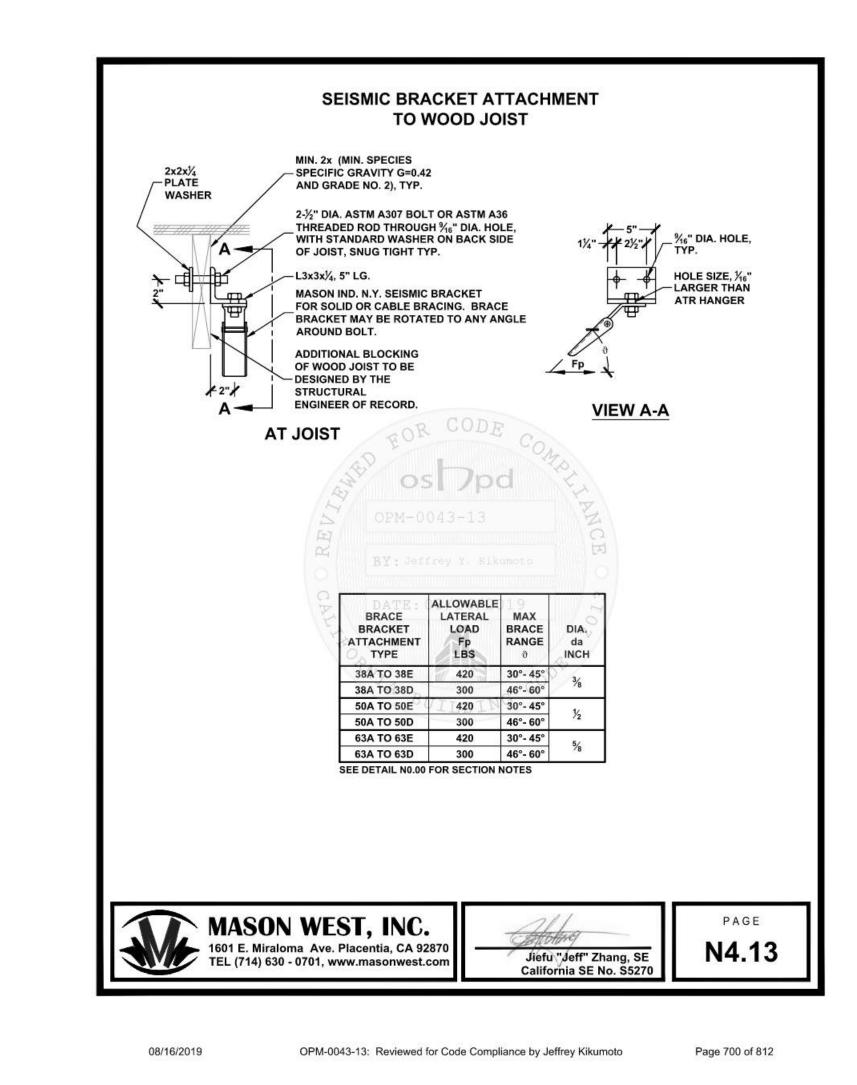
CENTER OF MASS

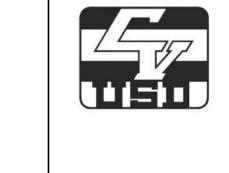
ANCHOR SPACING

ANCHOR SPACING

or discount of the second of t

**ELEVATION** 





≈ REG.#E15990 >

PXP. 6/30/23

ementa **6** ≥ **d** ₹

WALL MOUNTED EQUIP

SEE ARCHITECTURAL,

**ELECTRICAL DRAWINGS** SIZE AND ANCHOR

NON-STRUCTURAL EQUIPMENT WEIGHT

SINGLE 2x STUD

DOUBLE 2x STUD

WEIGHT < 250 LBS

250 LBS ≤ WEIGHT

WEIGHT < 500 LBS

MECHANICAL AND

PATTERN VARIES

CONSTRUCTION DOCUMENTS 11/07/2022 REVISIONS

75-22605-00

ELECTRICAL **DETAILS** 

E6.1

- GALV PIPE CONDUIT FOR ELECTRICAL / L.V. LAP SEALANT - STAINLESS STEEL CLAMPING RING PRE-MOLDED PIPE BOOT LAP SEALANT ROOF MEMBRANE ROOFING MATERIAL STEEL JOIST - SEE STRUCTURAL (AS APPLICABLE) PIPE CLAMP TOP AND BOTTOM — L 2 x 2 x 3/16 x 6" LONG TOP AND BOTTOM OF JOIST **ROOF PENETRATION DETAIL** E6.1 NO SCALE

