

## GENERAL NOTES

- CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED ON THE DRAWINGS OR ACCEPTED BY THE ARCHITECT WITH THE APPROVAL OF DSA REPRESENTATIVE.
- ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY DSA/ORS.
- ALL BRACING OF DUCTS AND PIPINGS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AS APPROVED BY DSA/ORS.

WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND DSA FIELD ENGINEER.

A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24 CCR.

A CLASS 3 DSA CERTIFIED INSPECTOR SHALL BE EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24 CALIFORNIA CODE OF REGULATIONS (CCR). SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN FINISHED WORK WILL NOT COMPLY WITH TITLE 24 CCR, A CONSTRUCTION CHANGE DOCUMENT, OR SEPARATE SET OF PLANS AND SPECS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK. REF. SEC. 4-317(c) CALIF. BUILDING STANDARDS ADMIN. CODE (PART1, TITLE 24,CCR)

APPLICABLE CODE: 2022 CBC PER IR 16-13.

MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK, AND ELECTRICAL CONDUIT:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, AND 13.6.8; AND 2022 CBC, SECTION 1617A.1.4, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW AND SHALL BE IN ACCORDANCE WITH DSA IR 16-13.

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

MD  PP  E  - IR 16-13 SECTION 2.1: PROJECT-SPECIFIC DESIGN

SHEET NUMBERS

MD  PP  E  - IR 16-13 SECTION 2.2: DESIGN BASED ON OSHPD OPM, PART OF PROJECT SUBMITTAL

OPM NUMBERS:

SHEET NUMBERS:

MD  PP  E  - IR 16-13 SECTION 2.2.6 DESIGN BASED ON OSHPD OPM, DEFERRED APPROVAL

APPLICABLE CODE: 2022 CBC

MEP COMPONENT ANCHORAGE NOTE

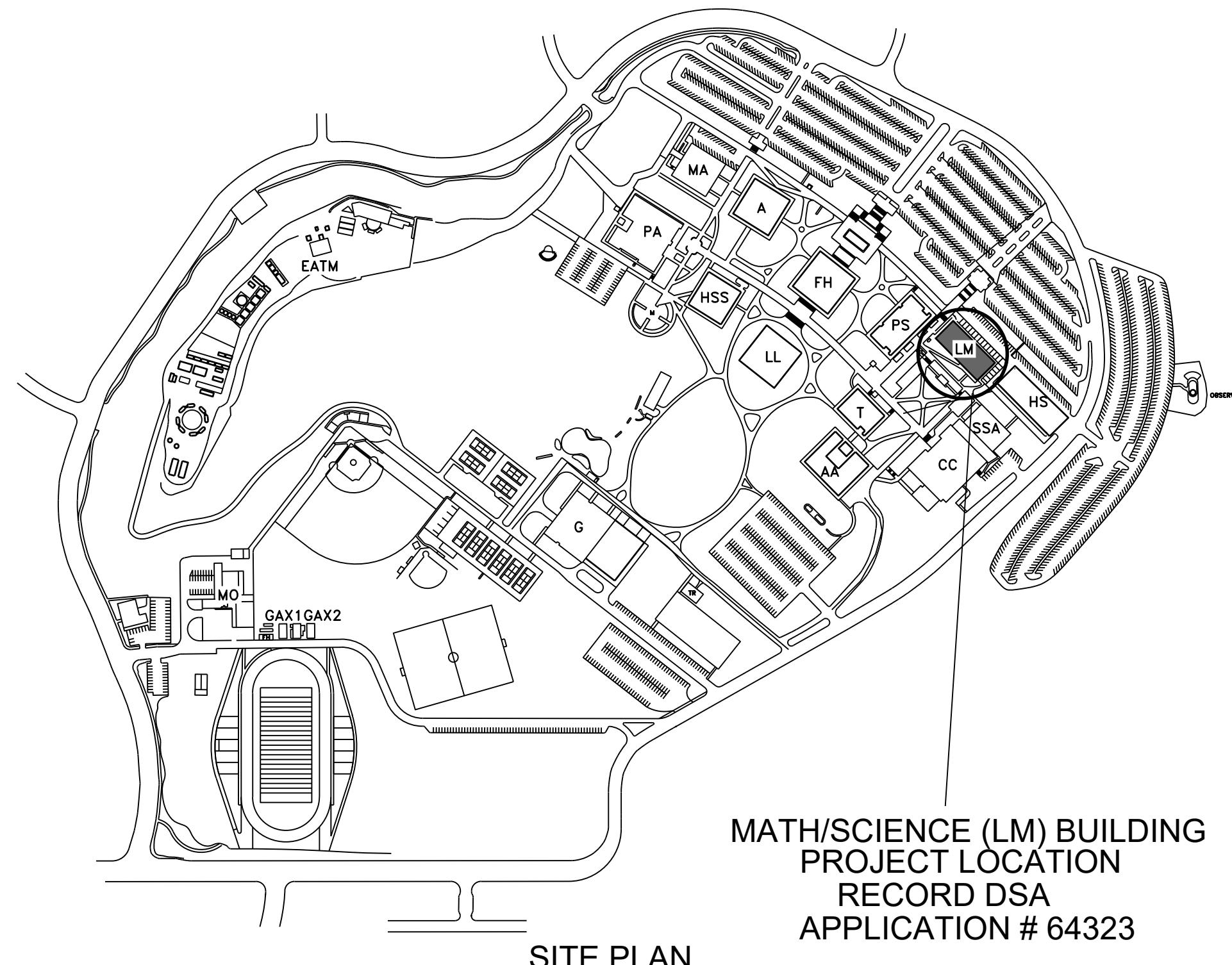
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTION 1617A.1.18 THROUGH 1617A.1.26 AND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

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

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

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

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



SITE PLAN



CAMPUS MAP



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DEPARTMENT OF  
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7075 CAMPUS RD.  
MOORPARK, CA 93021  
PHONE: (805) 378-1454 FAX: (805) 378-1593

SCALE: AS SHOWN  
DATE: 9-3-25  
TITLE SHEET  
SHEET NO. T1.0

## CAMPUS LEGEND

ADMINISTRATION - A	GAX2 - GYM AUXILIARY 2
APPLIED ARTS - AA	HS - HEALTH SCIENCE
TRAILER ANNEX - AX	LL - LIBRARY
CREATIVE ARTS - CA	LM - LIFE SCIENCE, MATHEMATICS BUILDING
CAMPUS CENTER - CC	M - MUSIC
COMMUNICATIONS - COM	MO - MAINTENANCE & OPERATIONS
EXOTIC ANIMAL TRAINING - EATM	OBSERV - OBSERVATORY
FOUNTAIN HALL - FH	PS - SCIENCE
GYMNASIUM - G	SSA - STUDENT SERVICES ANNEX
GYM AUXILIARY 1 - GAX1	T - PHYSICAL TECHNOLOGY
	TR - CAMPUS POLICE
	PA - PERFORMING ARTS

## APPLICABLE CODES

LIST OF CALIFORNIA CODE OF REGULATIONS

APPLICABLE CODES AS OF JAN. 1ST, 2020

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

2022 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 CCR

2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR

2022 CALIFORNIA ELECTRIC CODE (CEC), PART 3, TITLE 24 CCR

2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR

2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR

2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR

2022 CALIFORNIA REFERENCED STANDARDS CODE (CRSC) PART 12, TITLE 24 CCR

2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11 TITLE 24 CCR

2022 CALIFORNIA EXISTING BUILDING CODE, CEBC, PART 10 TITLE 24 CCR

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE NFPA STANDARDS

NFPA 90A STANDARD FOR THE INSTALLATION OF AIR CONDITIONING SYSTEMS 2021 EDITION

## SHEET INDEX

SHEET	DESCRIPTION
T1.0	TITLE SHEET
M1.0	NOTES, CONTROL, & SCHEDULE
M2.0	MECHANICAL DEMOLITION ROOF PLAN
M3.0	MECHANICAL ROOF PLAN
M4.0	MECHANICAL EQUIPMENT DETAILS
M4.1	PARTIAL ROOF FRAMING PLAN
M4.2	CURB BRACE DETAILS
M5.0	FIRST FLOOR AIR BALANCE PLAN
M5.1	SECOND FLOOR AIR BALANCE PLAN
EN1.0	ENERGY NOTES
EN1.1	ENERGY NOTES
E100	GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND DRAWING LIST
E140	ROOF HVAC POWER DEMOLITION PLAN
E141	ROOF HVAC POWER NEW WORK PLAN
E200	ELECTRICAL SINGLE LINE DIAGRAM AND PANEL SCHEDULE
E400	FIRST FLOOR POWER PLAN
E401	SECOND FLOOR POWER PLAN
E420	ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT
E600	ELECTRICAL DETAILS

TOTAL SHEET COUNT: 19

## SCOPE OF WORK

- REMOVE THREE MULTI-ZONE TRIPLE DECK AIR HANDLERS.
- INSTALL THREE MULTI-ZONE TRIPLE DECK HEAT PUMP AIR HANDLERS.
- INSTALL TWO 20" Ø FLEXIBLE DUCTS FOR IMPROVED RETURN AIR FLOW
- UPGRADE CONTROLS
- AIR BALANCE EXISTING AIR DISTRIBUTION SYSTEMS
- CLEAN EXISTING DUCTING.
- REMOVE AND RE-INSTALL EXISTING UV LIGHT ASSEMBLIES

## CONTACT INFORMATION

OWNER CONTACT INFORMATION  
JOHN SINUTKO DIRECTOR FACILITIES MAINTAINENCE & OPERATIONS  
7075 CAMPUS ROAD MOORPARK, CA. 93021  
805 378-1454 jsinutko@vcccd.edu

ENGINEER OF RECORD  
HUGH MCTERNAN AE GROUP MECHANICAL ENGINEERS  
838 E. FRONT ST. VENTURA, CA. 93001  
805 653-1722 hugh@aegroupme.com

STRUCTURAL ENGINEER  
LARRY HAUER  
275 SO. LAUREL ST. #A, VENTURA, CA. 93001  
805 653-1743 lrhauer@earthlink.net

ELECTRICAL ENGINEER  
KEN LUCCI  
3251 CORTE MALPASO #511  
CAMARILLO, CA. 93012  
805 389-6520 KEN@LUCCILAND.COM

## PROJECT LOCATION

## CEC SECTION 4-309C EVALUATION

PER CAC SECTION 4-309C.1 AIR CONDITIONING EQUIPMENT SHALL NOT BE INCLUDED IN THE CALCULATIONS. THIS IS A 100% AIR CONDITIONING EQUIPMENT PROJECT SO THEREFORE REHABILITATION IS NOT REQUIRED.

BUILDING NAME AS ORIGINALLY SUBMITTED:  
MATH SCIENCE BUILDING

REVISED NAME ON CAMPUS AND FOR THIS SUBMITTAL  
LM BUILDING

ORIGINAL DSA APPLICATION # 64323 - CERTIFIED 1999  
NOTICE OF COMPLETION DATE - 1999

OCCUPANCY - A3/B2

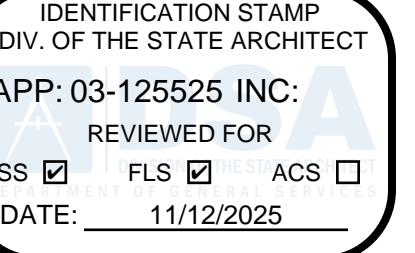
BUILDING TYPE III 1HOUR NOT SPRINKLERED

1ST FLOOR 13,752 FT2 2ND FLOOR 18,693 FT2

TOTAL 32,445 FT2

CLIMATE ZONE - 9

EXISTING BUILDING PLANS ARE AVAILABLE  
AT MOORPARK COLLEGE MAINTENANCE OFFICE



### NEW MULTI-ZONE A/C UNIT SCHEDULE

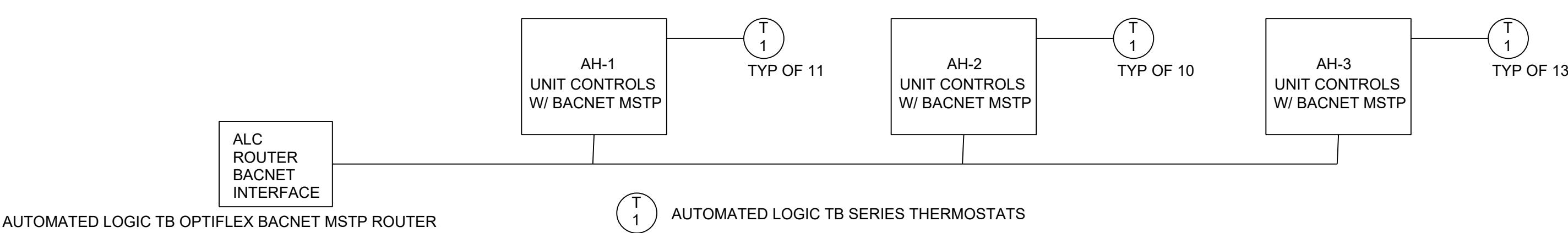
SYMBOL	MAKE & MODEL	AREA SERVED	LOCATION	SUPPLY AIR (CFM)	SUPPLY AIR FAN H.P.	E.S.P. "W.C.	RETURN AIR (CFM)	RETURN AIR FAN H.P.	E.S.P. "W.C.	COOLING TOTAL	COOLING SENSIBLE	ENT. F DB	ENT. F WB	LVG F DB	LVG F WB	HOT DECK CFM	HEATING TOTAL F DB	ENLVG F DB	MIN. O.S.A. (CFM)	FILTER	ROOF CURB (LBS.)	(E) AH WEIGHT PER ORIGINAL PLAN (*) (LBS.)	(N) WEIGHT (LBS.)	ELECTRICAL UNIT MCA	120	125	460	3	120	20	ELECTRICAL LIGHTS AND CONTROLS VOLTS PH	# OF ZONES	NOTES FOR ALL UNITS	FIRE ALARM SHUTDOWN SYSTEM SENSOR DUCT SMOKE DETECTOR AT SUPPLY PLENUM AFTER FANS.	
AH-1	BARNHART-TAYLOR	1ST FLOOR	ROOF	14,035	15	4.0	12,710	10	1.0	464,493	383,514	80.2	64.5	55.2	53.3	14,035	803,344	40	92.3	4750	2" MERV 8	1,000	16,070	13,500	12,750										
	MULTI-ZONE																			4" MERV 13															
AH-2	BARNHART-TAYLOR	2ND FLOOR	ROOF	14,545	15	4.0	6,555	10	1.00	507,326	431,893	85.7	66.7	57.5	56.1	14,545	768,535	40	88.3	8200	2" MERV 8	1,000	16,070	14,900	14,150										
	MULTI-ZONE																			4" MERV 13															
AH-3	BARNHART-TAYLOR	1ST & 2ND FLOOR	ROOF	9,130	15	4.0	8,674	7.5	1.00	315,400	234,105	77.9	64.5	56.2	55.2	9,130	533,240	40	93.4	1650	2" MERV 8	1,000	15,590	13,400	12,650										
	MULTI-ZONE																			4" MERV 13															

OUTDOOR CONDITIONS  
SUMMER  
OUTDOOR DRY BULB 105 F  
OUTDOOR WET BULB 65 F  
WINTER  
OUTDOOR DRY BULB 30 F

(\*) THIS IS THE WEIGHT SHOWN ON THE ORIGINAL PERMITTED MECHANICAL SCHEDULE;

VERIFY ZONE HEAD DIMENSIONS

### CONTROL TOPOGRAPHY



AUTOMATED LOGIC TB OPTIFLEX BACNET MSTP ROUTER

(T1) AUTOMATED LOGIC TB SERIES THERMOSTATS

### CONTROLS

1. ZONE THERMOSTAT SHALL BE AUTOMATED LOGIC TB SERIES THERMOSTATS. BACNET MSTP
2. JOHNSON CONTROLS SHALL BE USED FOR AIR HANDLER FANS, OA, RA, EA DAMPERS, ZONE CONTROL DAMPERS, FANS, AND COMPRESSORS
3. BACNET INTERFACE SHALL BE INSTALLED BETWEEN ALC CONTROLS AND JOHNSON CONTROLS
4. POWER FOR CONTROLS SHALL BE FROM 110 VOLT POWER.

### BUILDING NOTES

1. ALL WORK SHALL CONFORM WITH THE 2022 CALIFORNIA BUILDING CODE, (CBC), AND ALL LOCAL ORDINANCES.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO STARTING CONSTRUCTION AND BRING TO THE ATTENTION OF THE ENGINEER ANY DISCREPANCIES OR INCONSISTENCIES.
3. NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, BORED OR OTHER-WISE WEAKENED EXCEPT AS APPROVED BY THE STRUCTURAL ENGINEER.
4. THE ENGINEER SHALL BE NOTIFIED OF ANY UNUSUAL OR UNFORSEEN CONDITION WHICH EFFECTS THE STRUCTURAL STABILITY OF THE BUILDING PRIOR TO CONTINUING WITH CONSTRUCTION. SHOULD ANY CONDITION ARISE WHERE THERE APPEARS TO BE AN ERROR ON THE DRAWINGS OR A DISCREPANCY BETWEEN THE DRAWINGS AND CONDITIONS IN THE FIELD, THE ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUING WITH THE WORK.
5. IN THE CASE WHERE TWO OR MORE DETAILS APPLYING TO THE SAME PART OF THE WORK ARE IN CONFLICT, THE MOST RESTRICTIVE SHALL GOVERN UNLESS CLARIFIED OR OTHERWISE APPROVED BY THE ENGINEER.
6. REVIEW OF SHOP DRAWINGS MEANS REVIEW OF GENERAL METHOD OF FABRICATION ONLY. DIMENSIONS AND QUANTITIES MAY NOT BE CHECKED, AND REVIEW OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS UNLESS SPECIFICALLY SO INDICATED IN THE REVIEW.
7. THE ENGINEER HAS NOT BEEN RETAINED FOR SUPERVISION OR INSPECTION DURING CONSTRUCTION, BUT WILL RESOLVE STRUCTURAL ITEMS BROUGHT TO HIS ATTENTION DURING CONSTRUCTION.
8. COMPLY WITH 2022 CALIFORNIA FIRE CODE CHAPTER 333 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
9. RENEW ANY FIRE PROTECTION COATING ON STRUCTURAL ELEMENTS IMPACTED BY THIS CONSTRUCTION.

### ENERGY NOTES

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

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

MECHANICAL SYSTEM ACCEPTANCE TEST MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALL CONTRACTOR, ENGINEER/ARCHITECT OF RECORD, OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:  
<https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance>

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TEST HAVE BEEN COMPLETED.



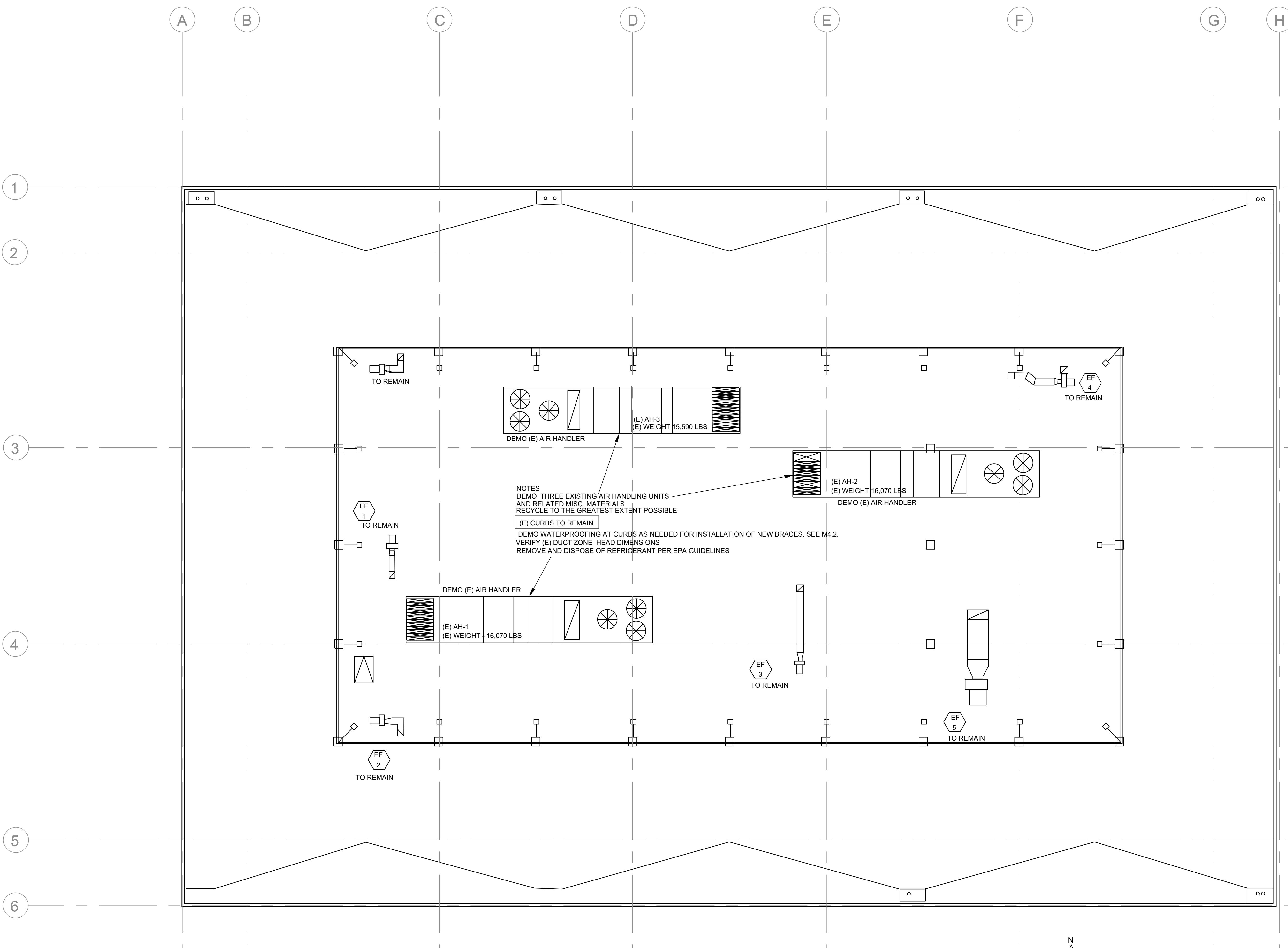
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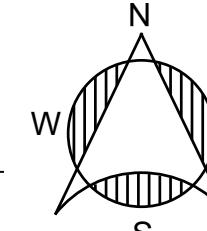
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SCALE: AS SHOWN  
DATE: 9-3-25  
BLDG. NO.  
LM BUILDING  
HVAC REPLACEMENT PROJECT  
SHEET NO.  
NOTES, CONTROLS,  
& SCHEDULE  
M1.0



MECHANICAL ROOF DEMOLITION PLAN  
SCALE: 1/8"=1'0"



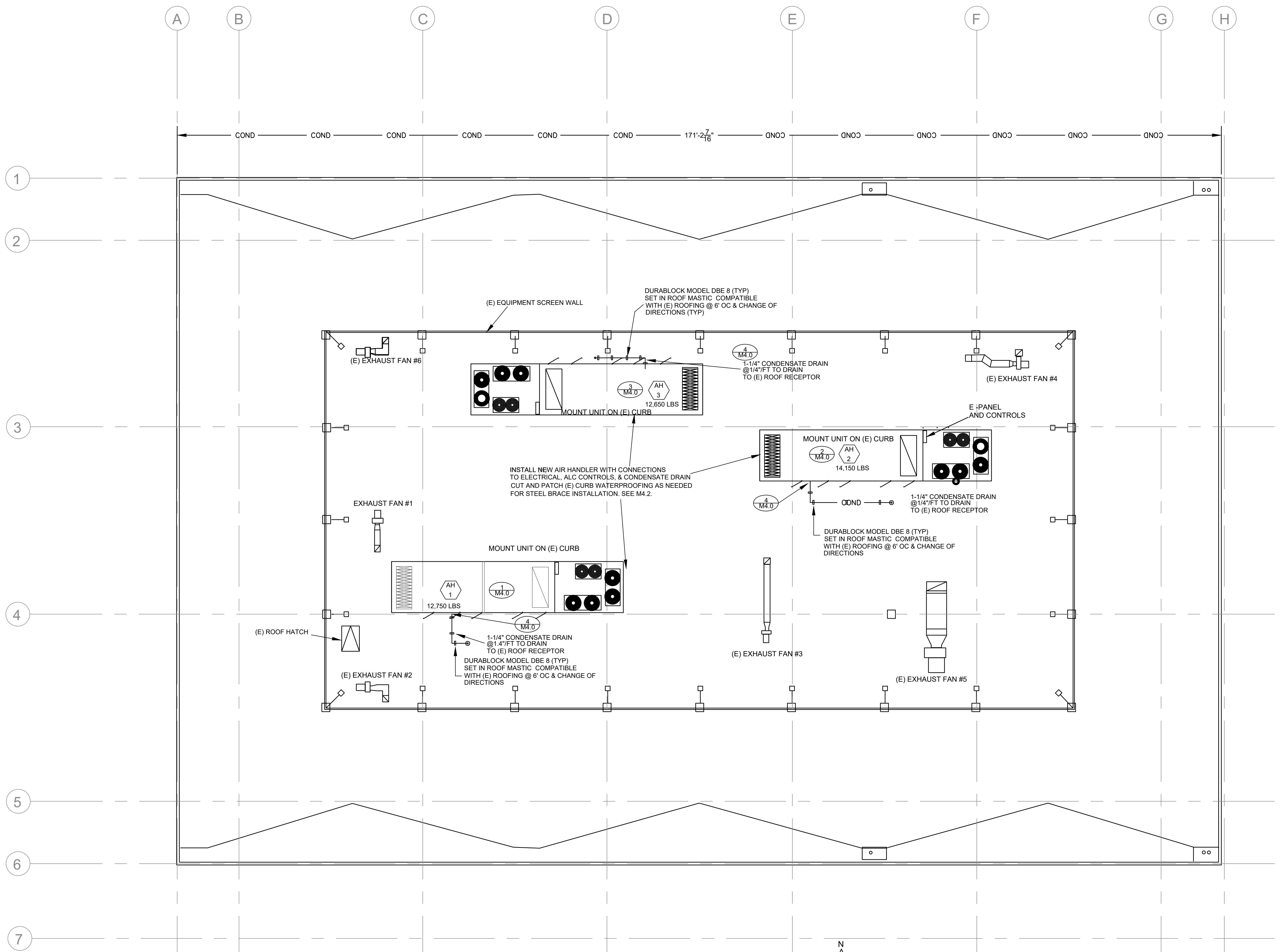
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HVAC REPLACEMENT PROJECT  
MECHANICAL ROOF  
DEMOLITION PLAN  
SHEET NO.  
M2.0



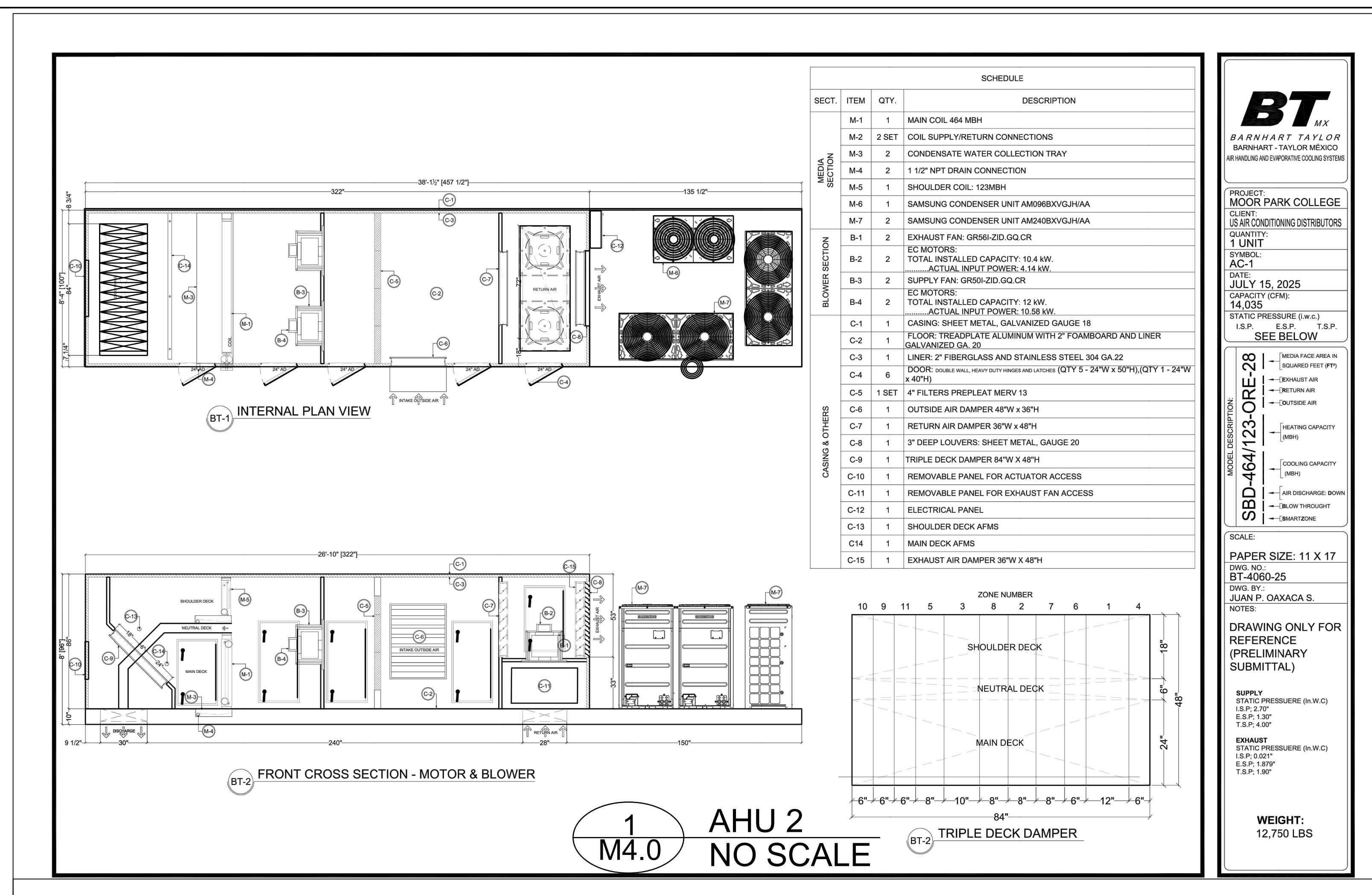
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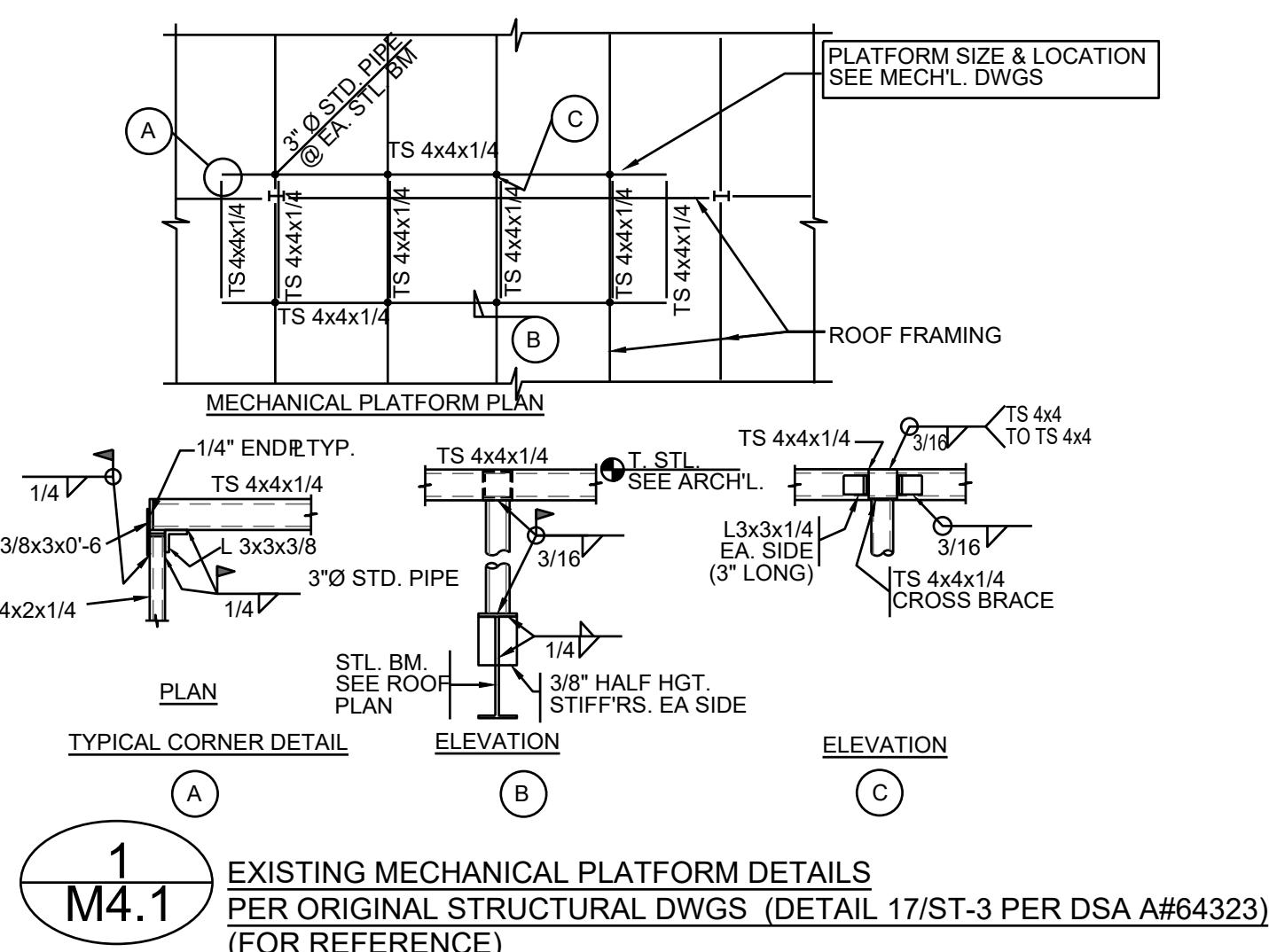
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LM BUILDING  
HVAC REPLACEMENT PROJECT  
MECHANICAL ROOF  
PLAN  
SHEET NO.  
M3.0



# STRUCTURAL SCOPE OF WORK

1. INSTALL 8 CROSS BRACES AT EACH AIR HANDLER FOR ADDITIONAL LATERAL BRACING OF EXISTING STRUCTURAL STEEL CURB SUPPORT. INSTALL AFTER REMOVING AIR HANDLERS.
2. STITCH WELD (E) CURB TO (E) 4x4 SQ. TUBE TO IMPROVE CONNECTION



F



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MAINTENANCE & OPERATIONS

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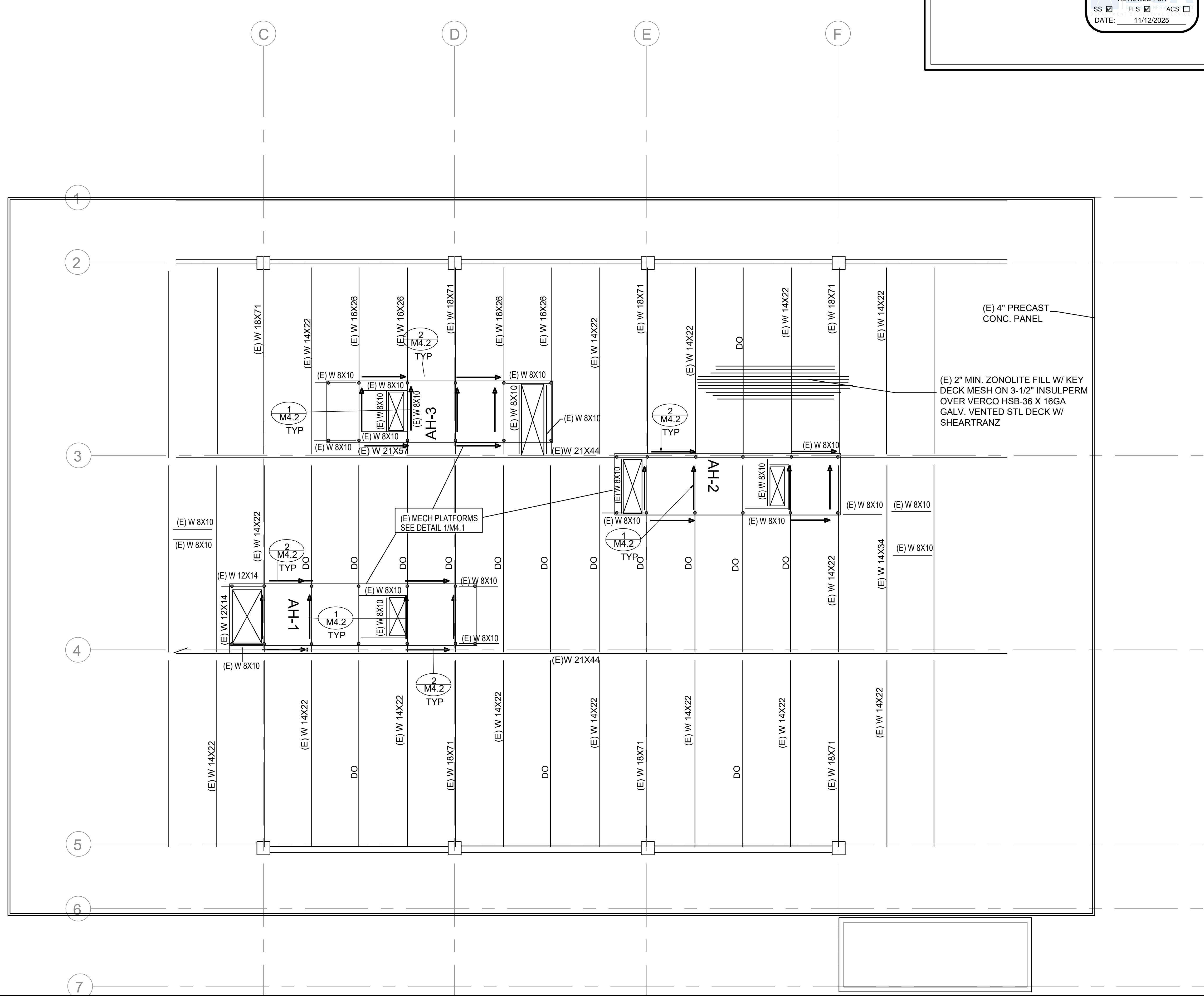
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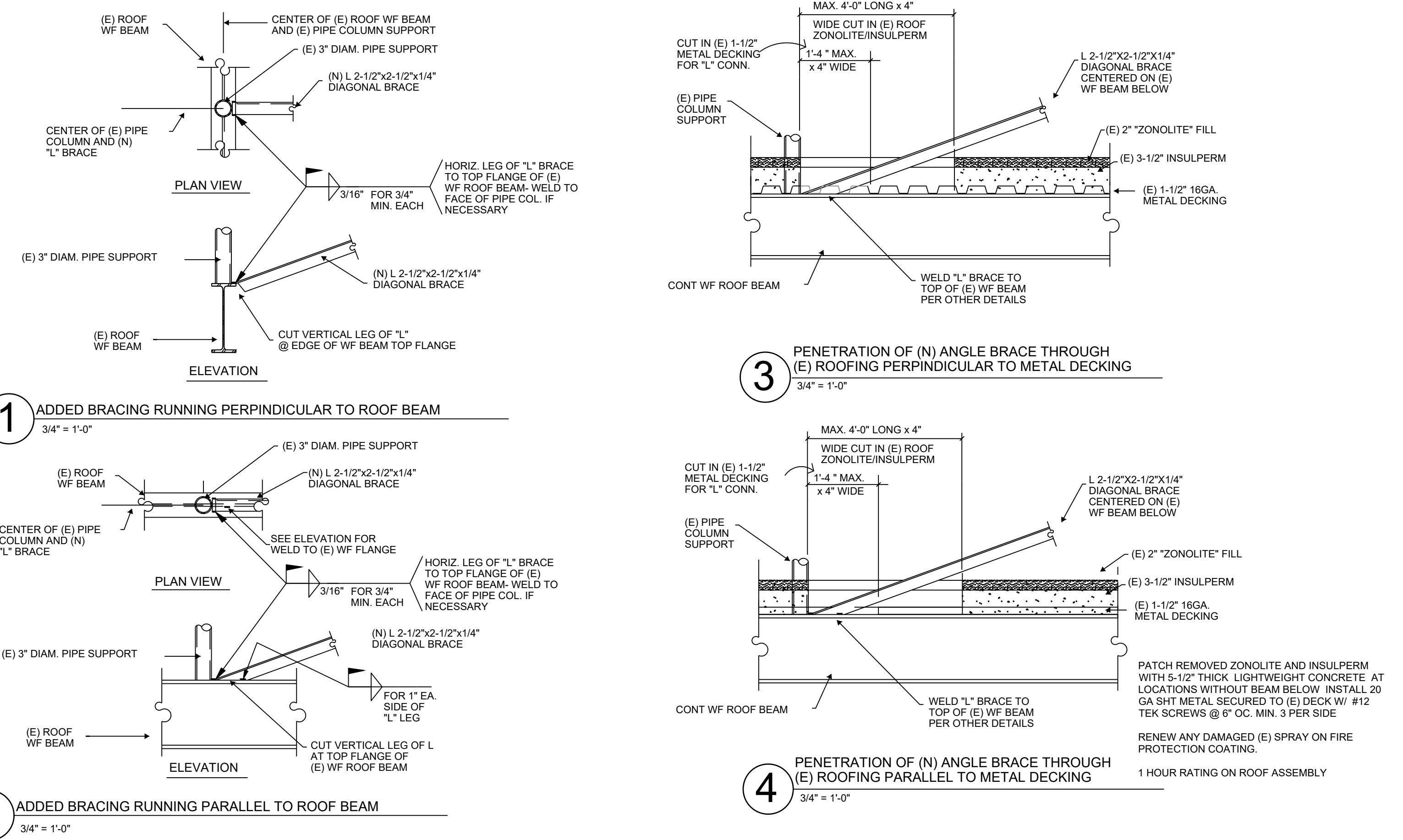
SHOWN	LM BUILDING HVAC REPLACEMENT PROJECT	
-3-25	PARTIAL ROOF FRAMING PLAN	SHE
NO.		M4

# **PARTIAL ROOF FRAMING PLAN**

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## **NO SCALE**





### STRUCTURAL STEEL

- ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 EXCEPT FOR WIDE FLANGE SHAPES WHICH SHALL CONFORM TO ASTM A-992, GRADE 50. SEE NOTE "2" BELOW FOR PIPES AND TUBE SHAPES.
- STEEL PIPE SHALL CONFORM TO ASTM A-53, GRADE "B" AND TUBULAR STEEL MEMBERS SHALL CONFORM TO ASTM A-500, GRADE "B".
- ALL WELDING SHALL BE PERFORMED WITH E70XX ELECTRODES CONFORMING TO AWS D1.1, LATEST EDITION. PROVIDE BACKING PLATES AS REQUIRED FOR FULL PENETRATION WELDS.
- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS BY THE A.I.S.C., LATEST EDITION.
- ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS IN THE SHOP OF A FABRICATOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT FOR WELDING IN THE SHOP. FOR SHOPS NOT APPROVED, WELDING SHALL BE CONTINUOUSLY INSPECTED BY A LICENSED DEPUTY INSPECTOR PER SECTION 1704A.2. OF THE CBC.
- CONTINUOUS INSPECTION BY A LICENSED DEPUTY INSPECTOR IS REQUIRED FOR ALL FIELD WELDING PER SEC. 1704A.3 OF THE CBC, EXCEPT MINOR ITEMS WHEN APPROVED BY THE ENGINEER AND INSPECTOR OF RECORD.
- ALL FABRICATED ITEMS SHALL BE SHOP PAINTED WITH ONE COAT OF SHOP PRIMER EXCEPT FOR ITEMS ENCASED IN CONCRETE AND SURFACES TO BE WELDED.
- BOLT HOLES SHALL BE 1/16 INCH LARGER THAN BOLT DIAMETER UNLESS SLOTTED HOLES ARE INDICATED IN DETAILS. BOLT HOLES SHALL BE PUNCHED OR DRILLED, BURNED HOLES ARE NOT PERMITTED.
- BOLT HEADS OR NUTS BEARING ON SLOPING SURFACES SHALL BE EQUIPPED WITH BEVELED WASHERS.
- MACHINE BOLTS SHALL CONFORM TO ASTM A-307 AND ANCHOR BOLTS TO ASTM F 1554 UNLESS OTHERWISE NOTED ON PLANS.
- ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CW1 QUALIFIED INSPECTOR APPROVED BY DSA.

### DESIGN CRITERIA:

ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA BUILDING CODE OF REGULATIONS AND ASCE CODE.

### EQUIPMENT DESIGN LOADS/CALCULATIONS:

#### CBC 1603A.1.4 WIND DESIGN DATA:

BASIC WIND SPEED V = 93 MPH w/ V ASD=72 MPH

RISK CATEGORY: III

WIND EXPOSURE: C

DESIGN WIND PRESSURE: 35 PSF ASD

#### CBC 1603A.1.5 EARTHQUAKE DESIGN DATA:

SEISMIC IMPORTANCE FACTOR.....

1.25

OCCUPANCY CATEGORY.....

II

SHORT PERIOD SPECTRAL RESPONSE, Ss:.....

2.25g

SITE CLASS.....

DEFAULT

1 SECOND SPECTRAL RESPONSE, S1:.....

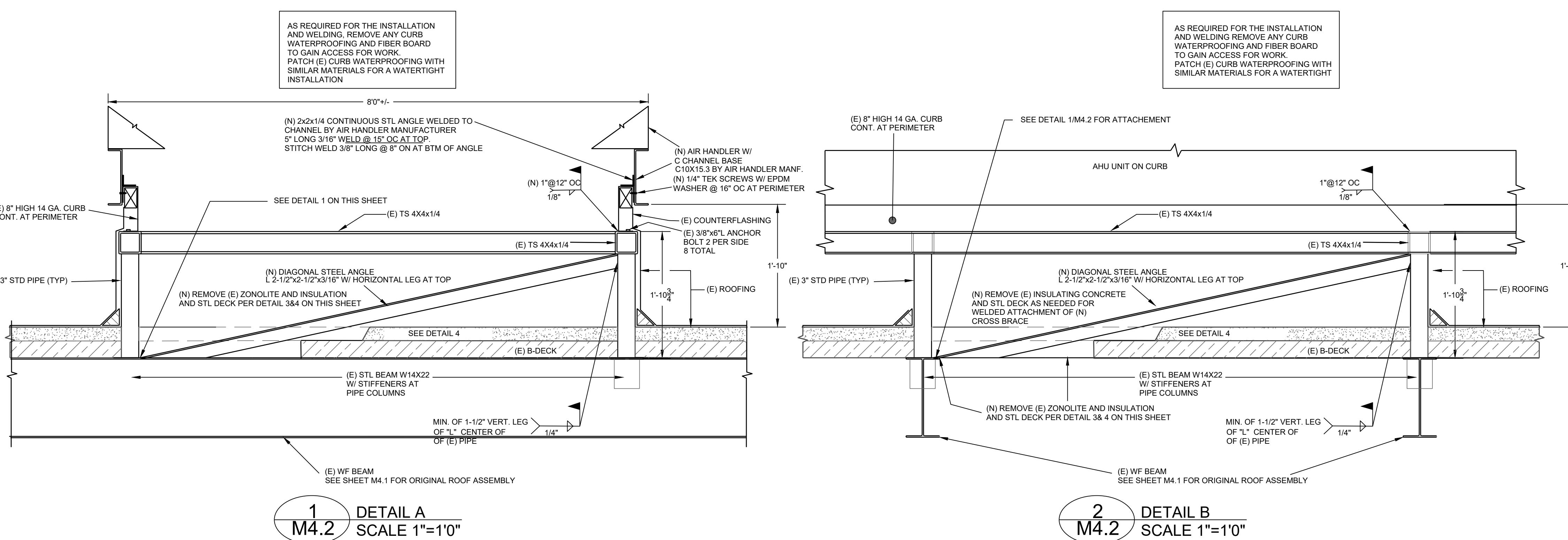
0.75g

SEISMIC DESIGN CATEGORY.....

E

BASIC SEISMIC FORCE RESISTING SYSTEM: EQUIPMENT ANCHORAGE PER

DESIGN BASE SHEAR, (ASD): 0.71W (0.99/1.4) BASED ON ASCE EQUATION 13.3-1  
VERTICAL ACCELERATION (ASD): 0.23W (0.32/1.4) BASED ON ASCE SEC. 13.3.1.2



### NEW CURB BRACING DETAILS



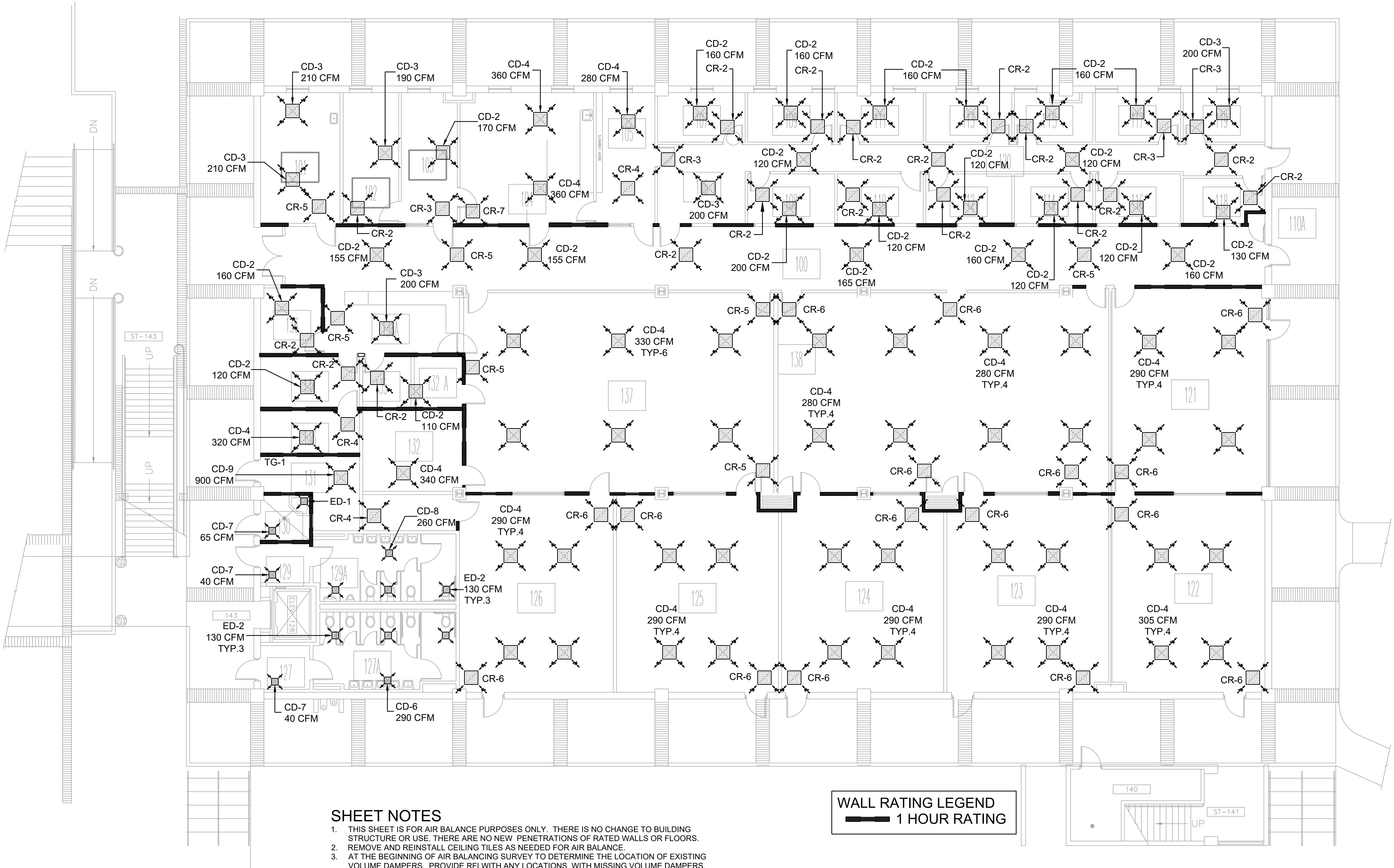
REV. DATE

**AE Group**  
Mechanical Engineers  
838 East Front Street  
Ventura, California 93001-2925  
(805) 653-4723  
hugh@aeigroupme.com

MOORPARK COLLEGE  
7075 CAMPUS ROAD, MOORPARK, CALIFORNIA 93021  
VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

DEPARTMENT OF  
MAINTENANCE & OPERATIONS  
7075 CAMPUS RD.  
MOORPARK, CA. 93021  
PHONE: (805) 378-1454 FAX: (805) 378-1593

SCALE: AS SHOWN	LM BUILDING HVAC REPLACEMENT PROJECT
DATE: 9-3-25	SHEET NO.
BLDG. NO.	CURB DETAILS M4.2



**FIRST FLOOR AIR BALANCE PLAN**  
SCALE: 1/8"=1'0"



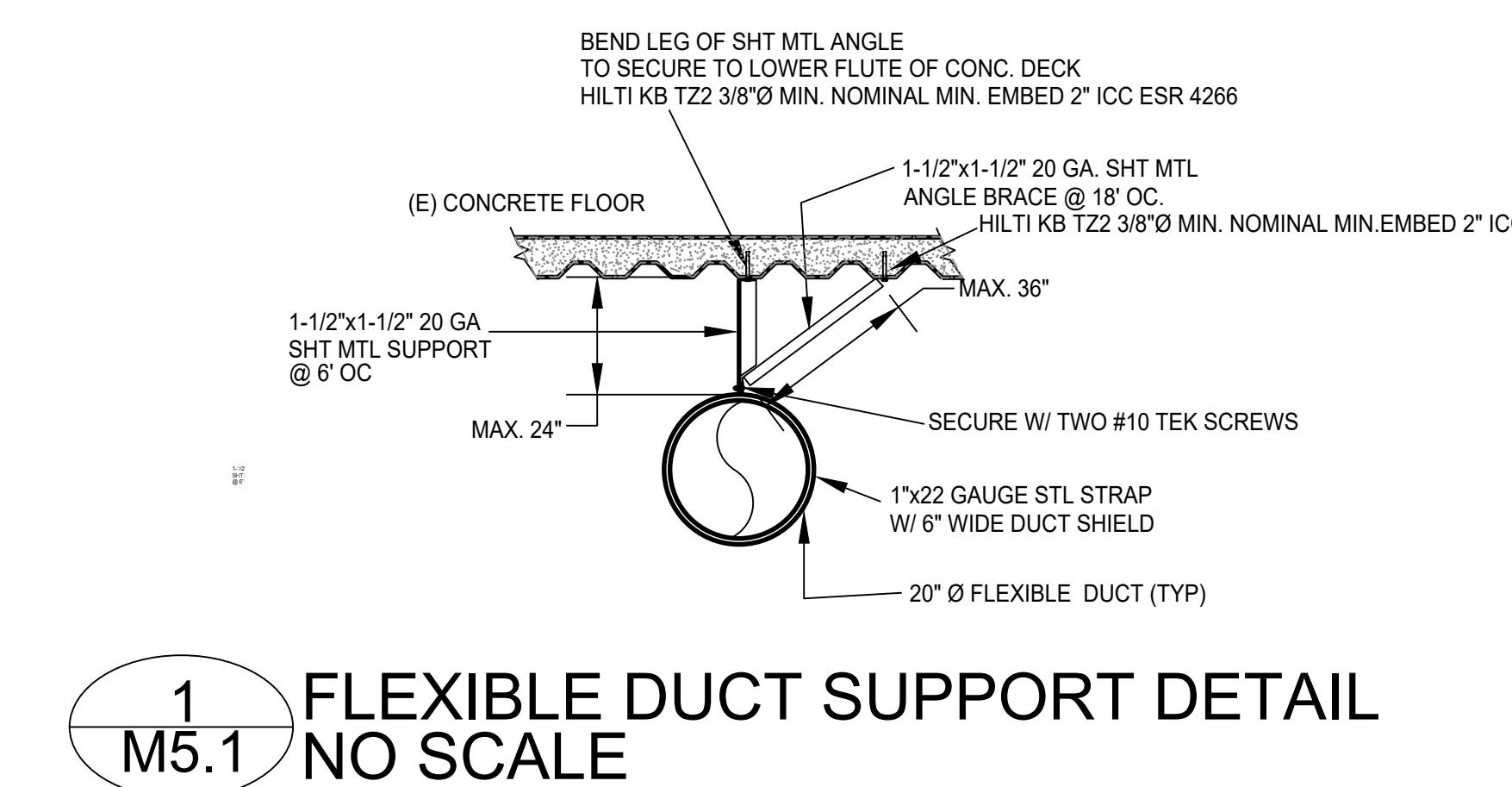
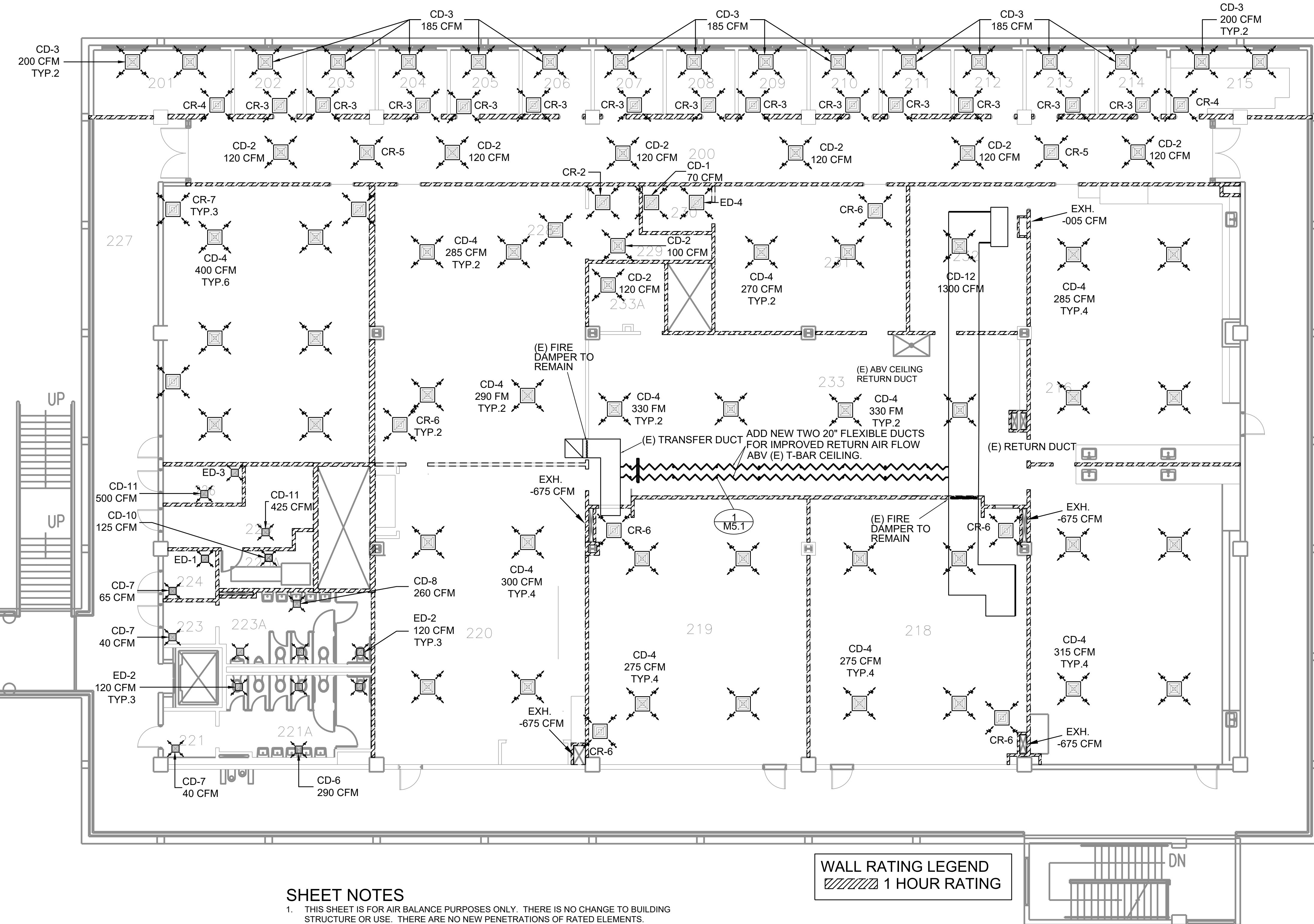
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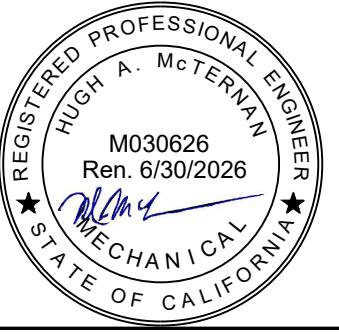
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**HVAC REPLACEMENT PROJECT**  
**FIRST FLOOR**  
**AIR BALANCE PLAN** M5.0



REV.	DATE



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<b>P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION</b> <small>There are no NRCC forms required for this project.</small>										<b>DOCUMENTATION AUTHOR'S DECLARATION STATEMENT</b> I certify that this Certificate of Compliance documentation is accurate and complete Documentation Author Name: Jose Sanchez Documentation Author Signature:  Company: AE Group Mechanical Engineers, Inc. Signature Date: 2025-08-18 Address: 838 E Front St CEA/HERS Certification Identification (if applicable): City/State/Zip: Ventura Ca 93001 Phone: 8056531722										<b>RESPONSIBLE PERSON'S DECLARATION STATEMENT</b> I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible to practice as a licensed professional engineer to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). 3. I am the sole designer and performing professional engineer for the building design or system design identified on this Certificate of Compliance. 4. The building design features or system design features identified on this Certificate of Compliance are in accordance with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency or personnel with the building permit application. 5. I will provide a copy of this certificate and a copy of the certificate of completion that shall be made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. Responsible Designer Name: Hugh McTernan Responsible Designer Signature:  Company: AE Group Mechanical Engineers, Inc. Date Signed: 2025-08-18 Address: 838 E Front St License: M30626 City/State/Zip: Ventura Ca 93001 Phone: 8056531722																																																																																																																																																																																																																																																																																																																						
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REV. DATE

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Mechanical Engineers  
838 East Front Street  
Ventura, California 93001-2925  
(805) 653-1722  
hugh@aegrpme.com

MOORPARK COLLEGE  
7075 CAMPUS ROAD, MOORPARK, CALIFORNIA 93021  
VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

DEPARTMENT OF  
MAINTENANCE & OPERATIONS  
7075 CAMPUS RD.  
MOORPARK, CA. 93021  
PHONE: (805) 378-1454 FAX: (805) 378-1593

SCALE: AS SHOWN  
DATE: 9-3-25  
BLDG. NO.  
SHEET NO.  
LM BUILDING  
HVAC REPLACEMENT PROJECT  
ENERGY NOTES  
EN1.1

## GENERAL NOTES

**A. GENERAL**  
1. **SCOPE**  
THE DRAWINGS AND THESE GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND SYSTEMS. THE MATERIAL REQUIRED FOR THE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, UNLESS SPECIFICALLY NOTED OTHERWISE. THE WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING PRINCIPAL SYSTEMS AND EQUIPMENT. ALL ITEMS NOTED ON THE PLAN WHICH ARE NOT EXPLICITLY STATED AS EXISTING SHALL BE NEW.

2. **PERMITS AND CHARGES**  
OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS, INSPECTION FEES, AND OTHER CHARGES BY AGENCIES HAVING JURISDICTION.

3. **REGULATIONS AND CODES**  
PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE 2022 C.E.C., CALIFORNIA ADMINISTRATIVE CODE TITLE 8, AND OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND THE MANUFACTURERS' RECOMMENDATIONS.

4. **VERIFYING EXISTING CONDITIONS**  
BEFORE STARTING, INSPECTOR THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST.

5. **COORDINATION**  
COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTION REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. ELECTRICAL EQUIPMENT LOCATIONS INDICATED ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATION SHALL BE VERIFIED. SCALING OFF OF DRAWINGS SHALL BE DONE AT CONTRACTOR'S RISK. DO NOT SCALE DEVICES, LIGHTING FIXTURES OR ANY EQUIPMENT FROM PLANS. LIGHTING FIXTURE QUANTITIES AND LENGTHS SHALL BE CONTRACTOR'S RESPONSIBILITY. FIXTURES ARE SHOWN FOR CIRCUITING ONLY. CONTRACTOR TO VERIFY SIZES & QUANTITIES PRIOR TO BID.

6. **SERVICE CONTINUITY**  
UNINTERRUPTED EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY POWER AREAS OF THE SITE DURING CONSTRUCTION. PROVIDE ANY TEMPORARY SERVICES AS MAY BE REQUIRED. IDENTIFY AT BID TIME, ALL WORK TO BE DONE ON PREMIUM TIME AND THE TOTAL OVERTIME MAN-HOURS REQUIRED FOR COMPLETION.

7. **AS BUILT**  
PROVIDE RECORD DRAWINGS IN ACAD TO THE OWNER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT. RECORD DRAWINGS SHALL BE SIGNED AND DATED BY CONTRACTOR PRIOR TO RELEASE OF FINAL RETENTION OF ALL MONIES.

8. **GUARANTEE**  
CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR.

9. **SHOP DRAWINGS**  
SUBMIT SHOP DRAWINGS AND MATERIAL LIST FOR REVIEW PRIOR TO COMMENCING ANY WORK. ALL EQUIPMENT TO BEAR U.L. LABEL OR THAT OF ANOTHER ACCEPTABLE TESTING LABORATORY. SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR FOR CONFORMANCE PRIOR TO SUBMITTAL. SUBMIT THREE HARD COPY SETS OF SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASING ALL BREAKER MOUNTING HARDWARE, DISCONNECT SWITCHES, FUSES, CONTROLLERS, LIGHTING FIXTURES, LIGHT SWITCHES, RECEIVERS, ETC.

10. **CONTRACTOR BID**  
CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND AS SPECIFIED. IF CONTRACTOR PROPOSES TO SUBSTITUTE FOR EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST FOR CONSIDERATION OF THE OWNER AND ENGINEER PRIOR TO BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER IN WRITING. SUCH REQUESTS REQUIRING THE CONTRACTOR TO SUBMIT WRITTEN REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN EXPENSE FOR ANY CHARGES RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, THE OWNER, ENGINEER OF RECORD OR THE WORK OF OTHER CONTRACTORS.

B. MATERIAL AND INSTALLATION  
ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST RULES OF THE GOVERNING ELECTRICAL CODE AND INSTALLATION SHALL BE OF THE LATEST INDUSTRY STANDARDS OF WORKMANSHIP.

ALL INSTALLED MATERIALS AND EQUIPMENT SHALL BE LISTED U.L., NRTL OR LISTED AND APPROVED BY AN APPROVED TESTING LABORATORY.

## 1. CONDUITS

CONDUITS SHALL BE EMT, PVC, IMC, RIGID OR FLEXIBLE STEEL TYPE. CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH UL-1. A GROUND WIRE IS REQUIRED IN ALL FLEXIBLE CONDUIT AND UNDERGROUND CONDUIT. BUSHINGS SHALL BE INSTALLED ON ALL COMMUNICATION, TELEPHONE & SPEAKER CONDUITS. PROVIDE 3/16" NYLON PULL STRING IN ALL EMPTY CONDUITS. NO MC, BX OR AC90 IS PERMITTED. FLEXIBLE STEEL CONDUIT RUNS SHALL BE LIMITED TO A MAXIMUM LENGTH OF 6 FOOT. ALL CONNECTIONS SHALL BE COMPRESSION & NOT SCREW TYPE.

## 2. SWITCHES AND RECEPTACLES

PROVIDE 20Amp NEMA RESTD SWITCHES AND RECEPTACLES OF SPECIFICATION GRADE. ALL SWITCHES SHALL BE RATED FOR 120 AND/OR 277 VOLT AND RECEPTACLES SHALL BE NEMA 5-20R. IN ALL OFFICES AND OFFICE AREAS DEVICES SHALL BE DECORA SERIES TYPE WITH COLOR SELECTION BY CONTRACTOR/OWNERS REPRESENTATIVE.

## 3. FEEDERS AND BRANCH CIRCUITS IDENTIFICATION

IDENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, LOAD END, AND IN PULL BOXES WITH E-2 CODE OR OTHER APPROVED WIRE MARKER. IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS, THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS. USE PLASTIC COATED SELF-STICKING MARKERS SUCH AS THOMAS & BETTS E-2 CODE FOR IDENTIFICATION OF CONDUCTORS. IDENTIFY SIGNAL & COMMUNICATION CABLES AT TERMINAL AND OUTLET UNIQUELY WITH PERMANENT LABELING.

## 4. CONDUCTORS

DELIVER ALL CONDUCTORS TO THE JOB SITE IN ORIGINAL UNBROKEN CARTON OR REEL, PROPERLY TAGGED WITH U.L. LABEL, SIZE, TYPE, MANUFACTURER, TRADE NAME AND THE DATE OF MANUFACTURE. (MUST BE MANUFACTURED WITHIN 6 MONTHS) PROVIDE COPPER CONDUCTORS #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE COPPER CONDUCTORS #14 AWG MAXIMUM. PROVIDE COPPER CONDUCTORS #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE. UNLESS OTHERWISE NOTED, CONDUCTOR SIZE NO.1 AWG AND SMALLER WITH 90 DEGREE INSULATION ARE TO USE THE 60 DEGREE COLUMN OF THE CODE, TABLE 310-16, TO DETERMINE AMPACITY. CONDUCTORS #1/0 AWG AND LARGER WITH 75 DEGREE AND 90 DEGREE INSULATION ARE TO USE THE 75 DEGREE COLUMN OF CODE, TABLE 310-16, TO DETERMINE AMPACITY. (110.14C) WHERE THE NUMBER OF CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED PER TABLE 310.15(B)(3)(a).

## 5. LIGHTING FIXTURES

PROVIDE LIGHTING FIXTURES WITH ELECTRONIC DRIVERS PER SPECIFICATION. NO SUBSTITUTIONS OF FIXTURES SHALL BE PROVIDED WITHOUT THE APPROVAL OF THE ENGINEER -OF-RECORD.

## 6. PANELBOARDS (BID SQUAD)

DISTRIBUTION AND LIGHTING PANELBOARDS WITHIN PROJECT AREA SHALL BE OF THE COPPER BUS THREE PHASE, FOUR WIRE DISTRIBUTED PHASING TYPE. CIRCUITING SHALL BE APPROVED TO THE MAXIMUM, AS NEARLY AS POSSIBLE, AN EVENLY BALANCED LOAD ON ALL PHASES. PANELBOARDS SHALL BE BOLT-ON CIRCUIT BREAKER TYPE. AVAILABLE FAULT CURRENT IS STATED ON PANELBOARD SCHEDULE. PROVIDE PANEL IDENTIFICATION NAMEPLATE (ENGRAVED ON-ADHESIVE 1/2" MINIMUM LETTERS) AND TYPEWRITTEN LIST OF CIRCUITS IN THE DIRECTORY FRAME. PROVIDE HINGED PANEL COVERS.

## 7. STRUCTURAL SUPPORT

ALL FLOOR-MOUNTED SWITCHBOARDS, DISTRIBUTION BOARD, MCC, ETC. SHALL BE BOLTED TO THE CONCRETE HOUSEKEEPING PAD USING (6) 3/4"-10 GRADE 2 BOLTS AND CONICAL WASHERS FORCED TO 70LB-FT. PROVIDE MINIMUM 4000 PSI STRENGTH CONCRETE BELOW ALL FLOOR-MOUNTED ELECTRICAL EQUIPMENT. TIE THE TOP OF ALL FLOOR-MOUNTED ELECTRICAL EQUIPMENT TO THE BUILDING STRUCTURE IN A SEISMICALLY APPROVED MANNER.

## 8. ELECTRICAL CERTIFICATION

"ELECTRICIANS" PERFORMING WORK ON THIS PROJECT SHALL BE CURRENTLY CERTIFIED IN ACCORDANCE WITH THE STATE OF CALIFORNIA AB931 AND THE DIVISION OF APPRENTICESHIP STANDARDS SECTION 3099.

## C. DEMOLITION

1. NOTIFY THE OWNER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, AND WHICH IS NOT INDICATED ON THE PLANS.

2. ALL REMOVED MATERIALS AND EQUIPMENT WHICH ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER, AND NEATLYPILE OR STORE THEM AND PROTECT FROM DAMAGE. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP.

3. ALL DEVICES, CIRCUITS, CONDUCTORS, FEEDERS ETC., WHEN NOTED TO BE REMOVED, SHALL BE REMOVED TO THE LAST ACTIVE DEVICE. ALL OVER-CURRENT PROTECTION AND DISCONNECT DEVICES NO LONGER UTILIZED BUT REMAINING AS LAST ACTIVE DEVICE SHALL BE LABELED AS 'SPARE'. COORDINATE ALL OUTAGES WITH OWNERS REPRESENTATIVE.

4. DISCONNECT AND MAKE SAFE ALL ELECTRICAL SYSTEMS ON SITE AND IN WALL, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.

5. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

6. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY AND RE-LABEL DEVICES AS SPARES.

7. REMOVE ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOOR, AND PATCH SURFACES.

8. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVE. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.

9. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER

10. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK

11. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

12. BEGINNING OF DEMOLITION MEANS CONTRACTOR ACCEPTS EXISTING CONDITIONS.

## D. EXECUTION

1. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONFINES AS MUCH AS POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED DUE TO THE INSTALLATION OF THIS WORK.

2. EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

3. DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL NEW ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTINGS PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC.

4. PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE 2022 C.E.C., CALIFORNIA ADMINISTRATIVE CODE TITLE 8, AND OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND THE MANUFACTURERS' RECOMMENDATIONS.

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IDENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, LOAD END, AND IN PULL BOXES WITH E-2 CODE OR OTHER APPROVED WIRE MARKER. IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS, THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS. USE PLASTIC COATED SELF-STICKING MARKERS SUCH AS THOMAS & BETTS E-2 CODE FOR IDENTIFICATION OF CONDUCTORS. IDENTIFY SIGNAL & COMMUNICATION CABLES AT TERMINAL AND OUTLET UNIQUELY WITH PERMANENT LABELING.

11. CONDUCTORS

DELIVER ALL CONDUCTORS TO THE JOB SITE IN ORIGINAL UNBROKEN CARTON OR REEL, PROPERLY TAGGED WITH U.L. LABEL, SIZE, TYPE, MANUFACTURER, TRADE NAME AND THE DATE OF MANUFACTURE. (MUST BE MANUFACTURED WITHIN 6 MONTHS) PROVIDE COPPER CONDUCTORS #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE COPPER CONDUCTORS #14 AWG MAXIMUM. PROVIDE COPPER CONDUCTORS #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE. UNLESS OTHERWISE NOTED, CONDUCTOR SIZE NO.1 AWG AND SMALLER WITH 90 DEGREE INSULATION ARE TO USE THE 60 DEGREE COLUMN OF THE CODE, TABLE 310-16, TO DETERMINE AMPACITY. CONDUCTORS #1/0 AWG AND LARGER WITH 75 DEGREE AND 90 DEGREE INSULATION ARE TO USE THE 75 DEGREE COLUMN OF CODE, TABLE 310-16, TO DETERMINE AMPACITY. (110.14C) WHERE THE NUMBER OF CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED PER TABLE 310.15(B)(3)(a).

12. LIGHTING FIXTURES

PROVIDE LIGHTING FIXTURES WITH ELECTRONIC DRIVERS PER SPECIFICATION. NO SUBSTITUTIONS OF FIXTURES SHALL BE PROVIDED WITHOUT THE APPROVAL OF THE ENGINEER -OF-RECORD.

13. PANELBOARDS (BID SQUAD)

DISTRIBUTION AND LIGHTING PANELBOARDS WITHIN PROJECT AREA SHALL BE OF THE COPPER BUS THREE PHASE, FOUR WIRE DISTRIBUTED PHASING TYPE. CIRCUITING SHALL BE APPROVED TO THE MAXIMUM, AS NEARLY AS POSSIBLE, AN EVENLY BALANCED LOAD ON ALL PHASES. PANELBOARDS SHALL BE BOLT-ON CIRCUIT BREAKER TYPE. AVAILABLE FAULT CURRENT IS STATED ON PANELBOARD SCHEDULE. PROVIDE PANEL IDENTIFICATION NAMEPLATE (ENGRAVED ON-ADHESIVE 1/2" MINIMUM LETTERS) AND TYPEWRITTEN LIST OF CIRCUITS IN THE DIRECTORY FRAME. PROVIDE HINGED PANEL COVERS.

14. STRUCTURAL SUPPORT

ALL FLOOR-MOUNTED SWITCHBOARDS, DISTRIBUTION BOARD, MCC, ETC. SHALL BE BOLTED TO THE CONCRETE HOUSEKEEPING PAD USING (6) 3/4"-10 GRADE 2 BOLTS AND CONICAL WASHERS FORCED TO 70LB-FT. PROVIDE MINIMUM 4000 PSI STRENGTH CONCRETE BELOW ALL FLOOR-MOUNTED ELECTRICAL EQUIPMENT. TIE THE TOP OF ALL FLOOR-MOUNTED ELECTRICAL EQUIPMENT TO THE BUILDING STRUCTURE IN A SEISMICALLY APPROVED MANNER.

15. ELECTRICAL CERTIFICATION

"ELECTRICIANS" PERFORMING WORK ON THIS PROJECT SHALL BE CURRENTLY CERTIFIED IN ACCORDANCE WITH THE STATE OF CALIFORNIA AB931 AND THE DIVISION OF APPRENTICESHIP STANDARDS SECTION 3099.

16. DEMOLITION

1. NOTIFY THE OWNER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, AND WHICH IS NOT INDICATED ON THE PLANS.

2. ALL REMOVED MATERIALS AND EQUIPMENT WHICH ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER, AND NEATLYPILE OR STORE THEM AND PROTECT FROM DAMAGE. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP.

3. ALL DEVICES, CIRCUITS, CONDUCTORS, FEEDERS ETC., WHEN NOTED TO BE REMOVED, SHALL BE REMOVED TO THE LAST ACTIVE DEVICE. ALL OVER-CURRENT PROTECTION AND DISCONNECT DEVICES NO LONGER UTILIZED BUT REMAINING AS LAST ACTIVE DEVICE SHALL BE LABELED AS 'SPARE'. COORDINATE ALL OUTAGES WITH OWNERS REPRESENTATIVE.

4. DISCONNECT AND MAKE SAFE ALL ELECTRICAL SYSTEMS ON SITE AND IN WALL, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.

5. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

6. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY AND RE-LABEL DEVICES AS SPARES.

7. REMOVE ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOOR, AND PATCH SURFACES.

8. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVE. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.

9. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER

10. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK

11. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

12. BEGINNING OF DEMOLITION MEANS CONTRACTOR ACCEPTS EXISTING CONDITIONS.

13. EXECUTION

1. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONFINES AS MUCH AS POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED DUE TO THE INSTALLATION OF THIS WORK.

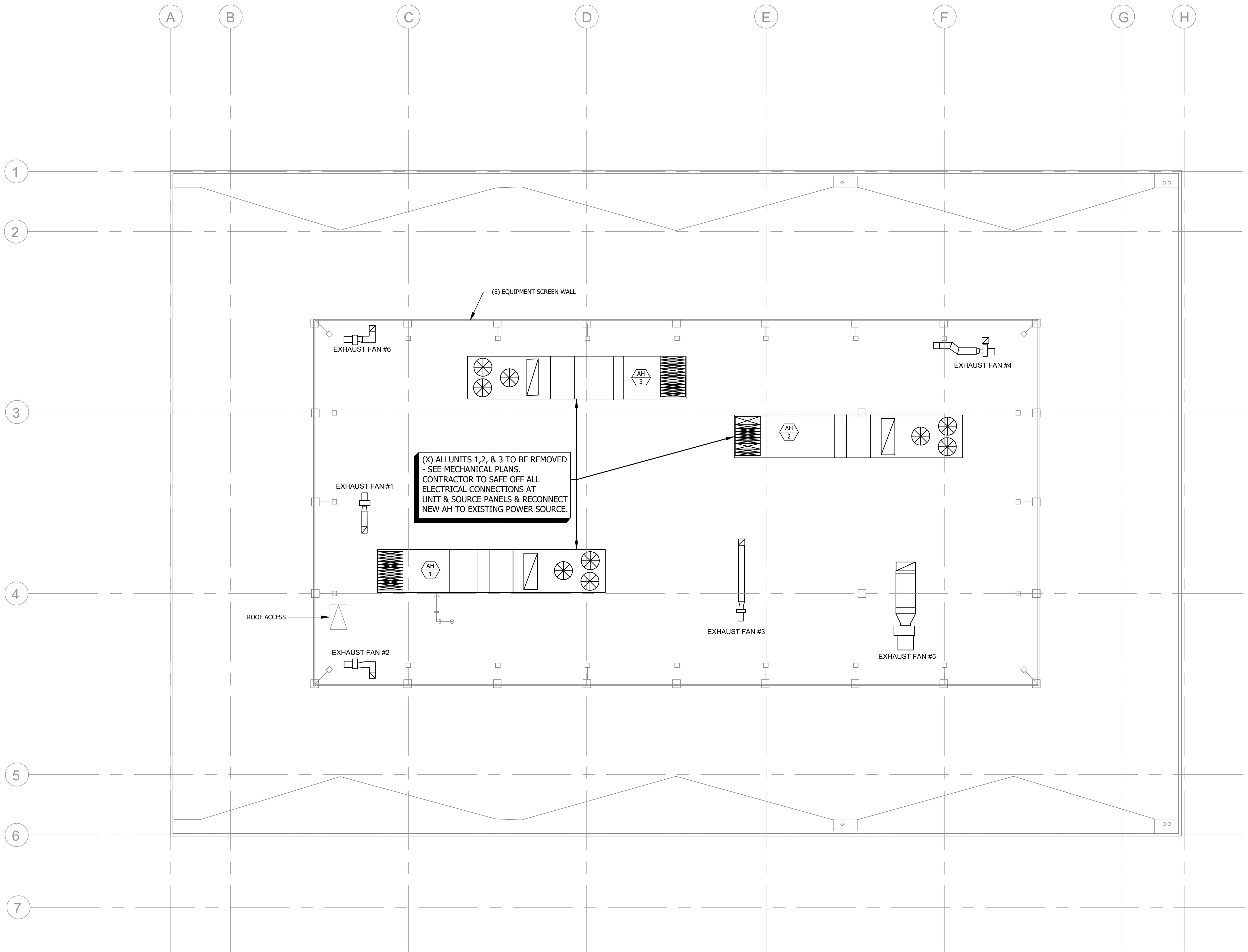
2. EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

3. DO ALL DRILLING,

SHEET NOTES:

- SCOPE: PROVIDE AND PERFORM DEMOLITION, PREPARATORY AND MISCELLANEOUS WORK IN AREAS AS INDICATED AND SPECIFIED, COMPLETE.
- DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL CONDUIT, WIRING AND EQUIPMENT REQUIRED TO COMPLETE THE PROJECT.
- PREPARATION OF THE EXISTING BUILDING TO RECEIVE & CONNECT THE NEW WORK.
- MISCELLANEOUS DEMOLITION, CUTTING, ALTERATION, AND REPAIR WORK IN THE EXISTING BUILDING NECESSARY FOR THE COMPLETION OF THE ENTIRE PROJECT.
- DISCONNECTING AND RECONNECTION OF ELECTRICAL EQUIPMENT AS REQUIRED BY THE CONSTRUCTION MODIFICATIONS.
- EXISTING CONDITIONS: PRIOR TO BID MAKE A DETAILED SURVEY OF THE EXISTING CONDITIONS PERTAINING TO THE WORK. CHECK THE LOCATIONS OF ALL EXISTING STRUCTURES, EQUIPMENT AND WIRING (BRANCH CIRCUITING AND CONTROLS). CHECK FOR ANY HAZARDOUS MATERIALS WHICH MAY REQUIRE SPECIAL HANDLING.
- SALVAGE AND DISPOSAL: ALL REMOVED MATERIAL OTHER THAN ITEMS TO BE REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF IN ACCORDANCE WITH INSTRUCTIONS FROM THE OWNER'S REPRESENTATIVE. DISPOSAL SHALL BE DONE IN ACCORDANCE WITH EPA AND GOVERNING BODY REQUIREMENTS AND REGULATIONS. CONTRACTOR SHALL PAY ALL FEES AND CHARGES FOR DISPOSAL.
- SCHEDULE ALL WORK AND OUTAGES WITH OWNERS WRITTEN APPROVAL.
- CONTRACTOR SHALL LEAVE ALL CIRCUITS ENERGIZED TO DEVICES IN AREAS OUTSIDE OF DEMOLITION AREA EVEN IF FEEDERS ARE ROUTED THROUGH DEMOLITION AREA.

DRAWING FILENAME: 25-118 E140  
PATHNAME: G:\25-118\EL\Sheets  
DRAFTER: CM02  
TIME: 9:15 am  
DATE: 27 October 2025



ROOF HVAC POWER DEMOLITION PLAN

SCALE: 1/8"=1'-0"  
0 4' 8' 16'

SCALE: 1/8"=1'-0"

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SCALE: AS SHOWN  
DATE: 9-3-25  
BLDG. NO.  
LM BUILDING  
HVAC REPLACEMENT PROJECT  
ROOF HVAC POWER  
DEMOLITION PLAN  
SHEET NO.  
OF 5



E140

PROVIDE REINSTALLATION & CONNECTION OF  
EXISTING FA DEVICES & RECONNECT/PROGRAM  
TO EXISTING FACP.

**SHEET NOTES:**

- SCOPE: PROVIDE AND PERFORM DEMOLITION, PREPARATORY AND MISCELLANEOUS WORK IN AREAS AS INDICATED AND SPECIFIED, COMPLETE.
- DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL CONDUIT, WIRING AND EQUIPMENT REQUIRED TO COMPLETE THE PROJECT.
- PREPARATION OF THE EXISTING BUILDING TO RECEIVE & CONNECT THE NEW WORK.
- MISCELLANEOUS DEMOLITION, CUTTING, ALTERATION, AND REPAIR WORK IN THE EXISTING BUILDING NECESSARY FOR THE COMPLETION OF THE ENTIRE PROJECT.
- DISCONNECTING AND RECONNECTION OF ELECTRICAL EQUIPMENT AS REQUIRED BY THE CONSTRUCTION SPECIFICATIONS.
- EXISTING CONDITIONS: PRIOR TO BID MAKE A DETAILED SURVEY OF THE EXISTING CONDITIONS PERTAINING TO THE WORK. CHECK THE LOCATIONS OF ALL EXISTING STRUCTURES, EQUIPMENT AND WIRING (BRANCH CIRCUITING AND CONTROLS). CHECK FOR ANY HAZARDOUS MATERIALS WHICH MAY REQUIRE SPECIAL HANDLING.
- SALVAGE AND DISPOSAL: ALL REMOVED MATERIAL OTHER THAN ITEMS TO BE REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF IN ACCORDANCE WITH INSTRUCTIONS FROM THE OWNER'S REPRESENTATIVE. DISPOSAL SHALL BE DONE IN ACCORDANCE WITH EPA AND GOVERNING BODY REQUIREMENTS AND REGULATIONS. CONTRACTOR SHALL PAY ALL FEES AND CHARGES FOR DISPOSAL.
- SCHEDULE ALL WORK AND OUTAGES WITH OWNERS WRITTEN APPROVAL.
- CONTRACTOR SHALL LEAVE ALL CIRCUITS ENERGIZED TO DEVICES IN AREAS OUTSIDE OF DEMOLITION AREA EVEN IF FEEDERS ARE ROUTED THROUGH DEMOLITION AREA.

**KEY NOTES:**

- PROVIDE CONNECTION FOR EXISTING POWER TO AH FROM EXISTING FEEDER PER E140. EXTEND FEEDER TO NEW DISCONNECT PER E208 & FEEDER FROM DISCONNECT TO AH UNIT PER NEW FEEDER NOTED ON E240.
- PROVIDE NEW FEEDER 3/4" - 2 #12 & 1 #12 GND FOR POWER & LIGHTING IN AH TO PANEL 2P3A PER SCHEDULE, PROVIDE NON-FUSED 20A, 120VAC DISCONNECT INTEGRATED TO AH.
- PROVIDE NEW FEEDER 3/4" - 2 #12 & 1 #12 GND TO PANEL 2P3A FOR UV SYSTEM, PROVIDE NEW MOTOR RATED DISCONNECT.
- RECONNECT DDC CONTROLS FROM EXISTING AH TO NEW UNITS.
- PROVIDE POWER FROM PANEL 2P3A TO DDC CONTROLS VIA 3/4" - 2 #12 & 1 #12 GND.

TIME: 9:15 am  
DATE: 27 October 2025

PATHNAME: G:\25-118\EL1\Sheets

DRAWING FILENAME: 25-118 E141

DRAFTER: CN02



REV. DATE

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NO. 78340  
Exp. 09/30/2026

Drawings: 25-118 E141  
Sheet: 1 of 1  
Scale: 1/8" = 1'-0"

Architect: HUGH A. McTERNAN  
Mechanical: JEFFREY W. VICKERY  
Electrical: JEFFREY W. VICKERY  
Land Surveyor: HUGH A. McTERNAN

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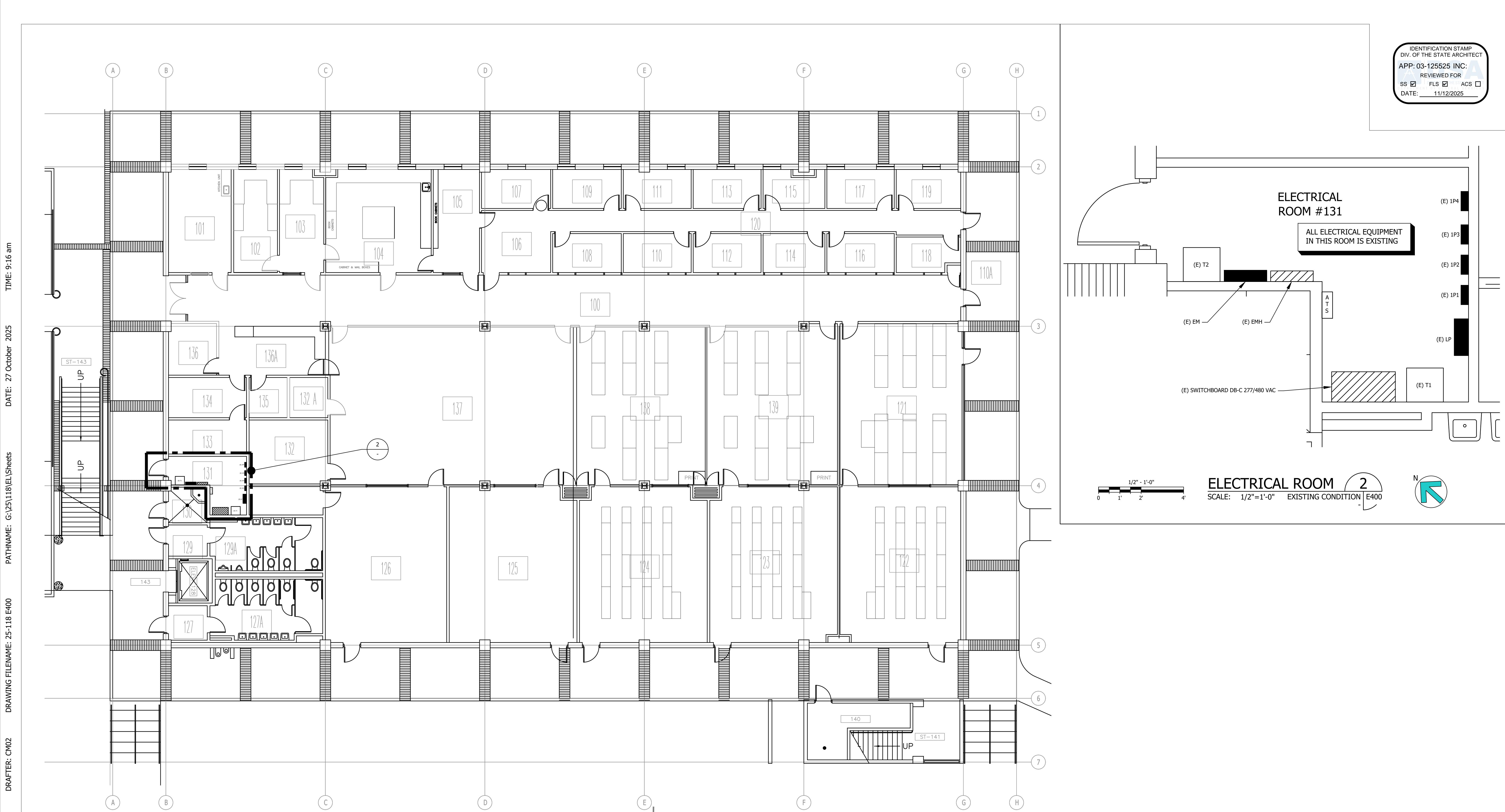
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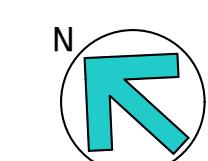
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FIRST FLOOR POWER PLAN 1  
SCALE: 1/8"=1'-0"  
E400



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6/30/26

MO30626

Hugh A. McTernan

MECHANICAL

STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER

Hugh A. McTernan

MECHANICAL

STATE OF CALIFORNIA

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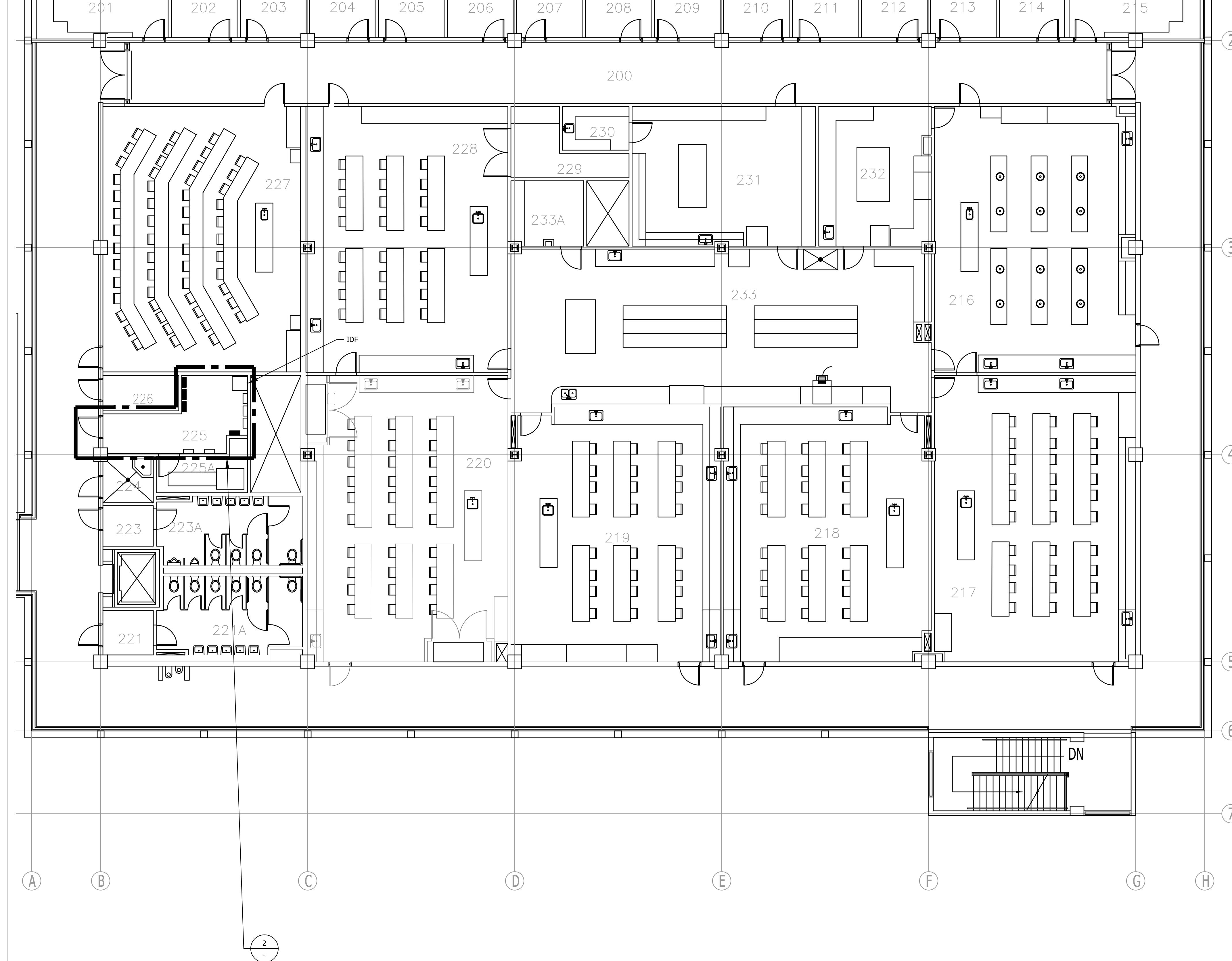
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E400

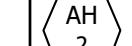
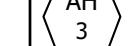
SHEET NOTES:

1. CONTRACTOR SHALL FIELD VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
5. 3/4" CONDUIT MINIMUM U.O.N.
6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.

DRAWING FILENAME: 25-118 E401  
PATHNAME: G:\25-118\EL\Sheets  
DATE: 27 October 2025  
TIME: 9:16 am

DRAFTER: CM02



ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT (NEMA 3R ON ALL EXTERIOR EQUIPMENT)													
TAG #	DESCRIPTION	SUPPLY FAN H.P.	RETURN FAN H.P.	MCA	MAX OCP	VOLTAGE	PHASE	NEMA STARTER SIZE OR VFD	DISCONNECT	RECOMMENDED FUSE SIZE/TYPE *	ELECTRICAL LIGHTS & CONTROLS VOLTS AMPS	PANEL/CIRCUIT NO.	FEEDER
 1	MULTI-ZONE A/C UNIT SERVES 1ST FLOOR LOCATED ON ROOF	15	10	120	125	460	3	..	..	..	120 20	..	..
 2	MULTI-ZONE A/C UNIT SERVES 2ND FLOOR LOCATED ON ROOF	15	10	120	125	460	3	..	..	..	120 20	..	..
 3	MULTI-ZONE A/C UNIT SERVES 1ST & 2ND FLOOR LOCATED ON ROOF	15	7.5	99	100	460	3	..	..	..	120 20	..	..

\* ALL FUSES BY BUSSMAN AND SHALL BE SIZED PER MANUFACTURERS RECOMMENDATION.

ELECTRICAL NOTES FOR ALL UNITS  
SINGLE POINT POWER CONNECTION FOR UNIT. PROVIDE INTERIOR CONDUITS FOR CONTROL ELEMENTS, ABB VARIABLE FREQUENCY DRIVES.

FIRE ALARM VIA SYSTEM SENSOR DUCT SMOKE DETECTOR AT SUPPLY PLenum AFTER FANS.

LM BUILDING FA CERTIFICATION #03-102075 CLOSED 8-19-2003

SHEET NOTES:

1. FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
2. SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT FOR ELECTRICAL REQUIREMENTS.
3. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
4. THE LOCATION OF ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS.
5. PROVIDE ROOF JACKS AND PROPERLY SEAL ALL ROOF PENETRATIONS TO A LEAK FREE CONDITION.
6. THE FINAL CONNECTIONS TO EQUIPMENT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT. INSTALL WITH ENOUGH SLACK TO PRECLUDE VIBRATION TRANSMISSION. SUPPORT SHALL BE PER N.E.C. ARTICLE 351-8
7. PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
8. PROVIDE ALL DEVICES AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED SUBMITTALS.
9. NO CONDUIT/FEEDER SHALL BE PERMITTED ON THE ROOF WITH CRIPPLES. ALL FEEDERS SHALL BE RUN BEHIND THE ROOF.
10. ALL DISCONNECTS SHALL BE MOUNTED ON UNISTRUT ON AH UNIT.
11. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN & INSTALLATION.
12. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
13. EACH DISCONNECT OR STARTER AND A SPARE SET OF FUSES SHALL BE CONTRACTOR PROVIDED.

TIME: 9:16 am

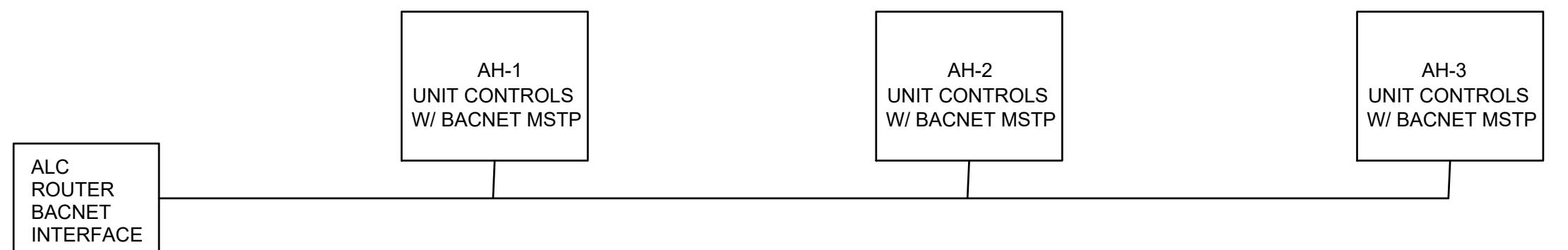
DATE: 27 October 2025

PATHNAME: G:\25-118\EL\Sheets

DRAWING FILENAME: 25-118 E420

DRAFTER: CM02

CONTROL TOPOGRAPHY



AUTOMATED LOGIC TB SERIES THERMOSTATS  
AUTOMATED LOGIC TB OPTIFLEX BACNET MSTP ROUTER

CONTROLS

1. ZONE CONTROLS SHALL BE AUTOMATED LOGIC TB SERIES THERMOSTATS. BACNET MSTP
2. JOHNSON CONTROLS SHALL BE USED FOR AIR HANDLER FANS, OA, RA, EA, DAMPERS, FANS, AND COMPRESSORS
3. BACNET INTERFACE SHALL BE INSTALLED BETWEEN ALC CONTROLS AND JOHNSON CONTROLS
4. POWER FOR CONTROLS SHALL BE FROM 110 VOLT POWER.

KEY NOTES:

① FOR FEEDER AND DISCONNECT INFORMATION SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT THIS SHEET.  
② PROVIDE 3/4" C & CONTROLS PER MECHANICAL.  
③ W.P. GFCI.



REV. DATE  
NO. 78340  
08/30/2026

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DEPARTMENT OF  
MAINTENANCE & OPERATIONS  
7075 CAMPUS RD.  
MOORPARK, CA. 93021  
PHONE: (805) 378-1454 FAX: (805) 378-1593

SCALE: AS SHOWN  
DATE: 9-3-25  
BLDG. NO.  
LM BUILDING  
HVAC REPLACEMENT PROJECT  
ELECTRICAL SCHEDULE FOR  
MECHANICAL EQUIPMENT  
SHEET NO.  
OF 5

E420



MOORPARK COLLEGE  
7075 CAMPUS ROAD, MOORPARK, CALIFORNIA 93021  
VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

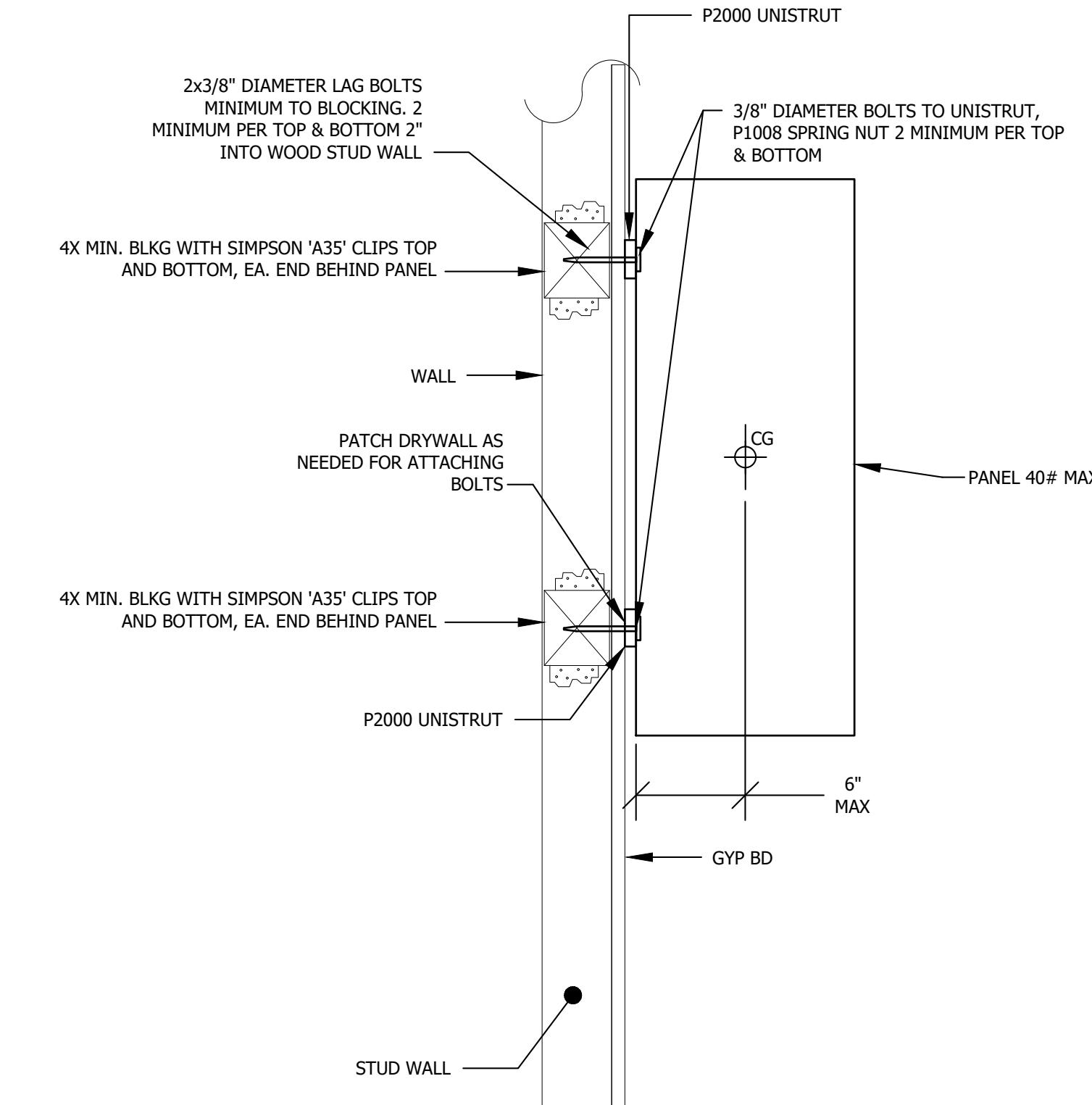
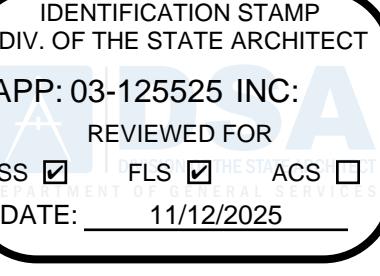
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DEPARTMENT OF  
MAINTENANCE & OPERATIONS

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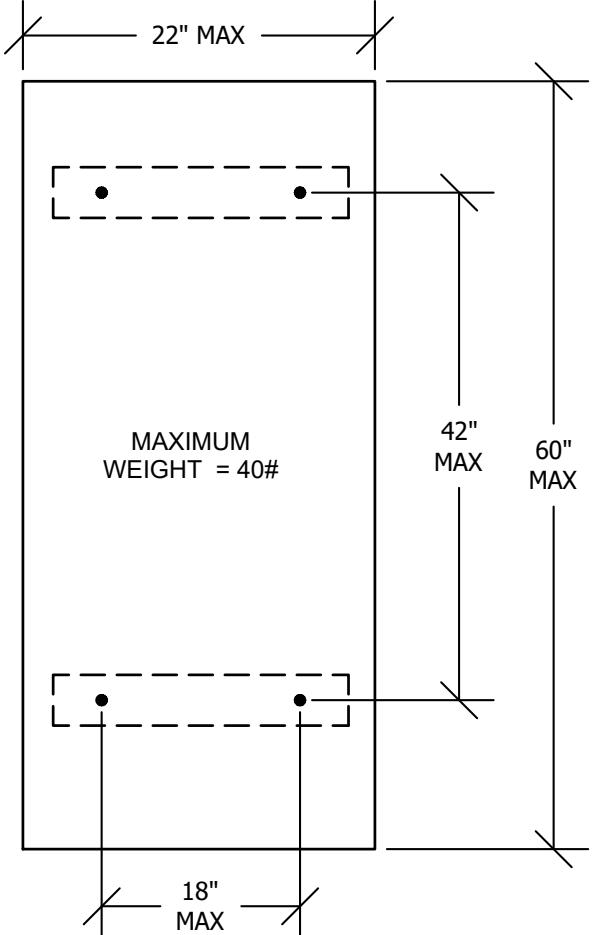
ALE: AS SHOWN	LM BUILDING HVAC REPLACEMENT PROJECT	
TE: 9-3-25	ELECTRICAL DETAILS	SHEET
DG. NO.		OF

E600



## SIDE VIEW

## FRONT VIEW



## PANELBOARD ANCHORAGE WOODEN WALL - SURFACE

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SCALE: NONE

1  
- E600  
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