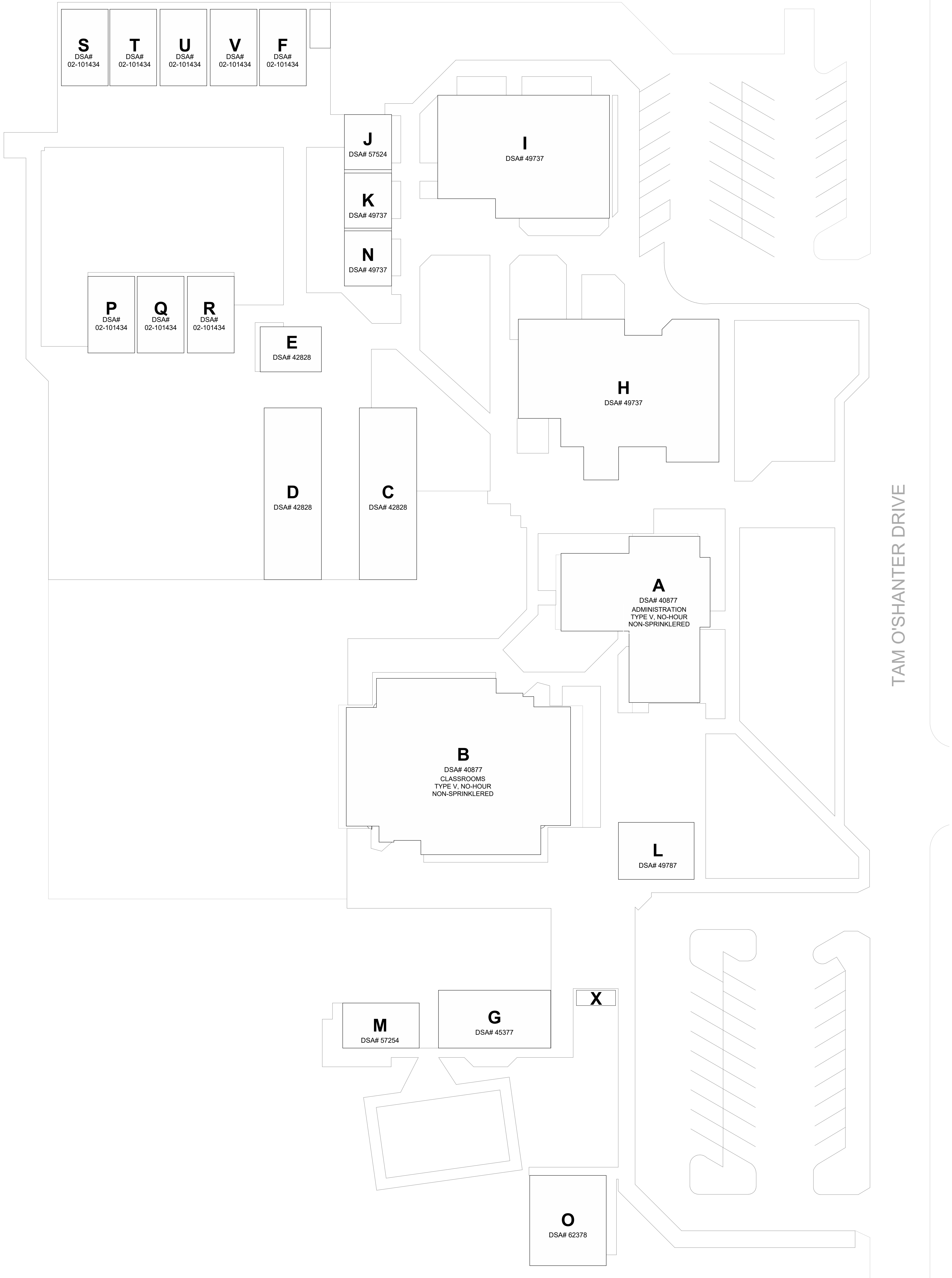


Autodesk Docs:13431004000 Lodi USD Parklane ES HVAC Replacement13431004000-A-Parklane-HVAC.rvt 8/21/2023 10:32:42 AM

LODI UNIFIED SCHOOL DISTRICT

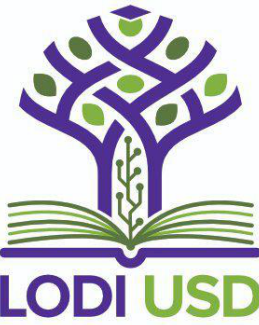
PARKLANE ELEMENTARY SCHOOL HVAC REPLACEMENT

8405 TAM O'SHANTER DR.
STOCKTON, CA 95210



TAM O'SHANTER DRIVE

AGENCY APPROVAL: REVIEWING AGENCIES STAMP HERE



HMC Architects

3431-004-000



3546 CONCOURS STREET
ONTARIO, CA 91764
909 989 9979 / www.hmcarchitects.com

PROJECT TEAM

STRUCTURAL
RW CONSULTING ENGINEERS

1450 HARBOR BLVD SUITE F WEST SACRAMENTO, CA
95691
916.718.6910

MECHANICAL AND ELECTRICAL

CAPITAL ENGINEERING

11020 SUN CENTER DR SUITE 100 RANCHO CORDOVA,
CA 95670
916.851.3500

FACILITY:
PARKLANE ELEMENTARY SCHOOL
8405 TAM O'SHANTER DR.
STOCKTON, CA 95210

PROJECT:
PARKLANE ELEMENTARY SCHOOL HVAC
REPLACEMENT

SHEET NAME:
COVER SHEET

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

SHEET:

- ARCHITECTURAL SITE PLAN -

1

1" = 30'-0"

PLEASE RECYCLE

G0.10

CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, MATERIALS, AND MANUFACTURING SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT. THE CONTRACTOR SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS AND COMPLEMENTARY, AND WHAT IS REQUIRED TO BE AS BINDING AS IF REQUIRED BY BOTH. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO ACHIEVE THE INDICATED RESULTS OF THE DESIGN INTENT. VERIFY ALL DIMENSIONS, LOCATIONS OF THE CONSTRUCTION ELEMENTS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK. THE CONTRACTOR SHALL BE AWARE OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. FIELDING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS, INFORMATION FROM AVAILABLE RECORDS, AND FIELD CONDITIONS AT THE TIME OF PREPARATION. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION BRACING, SHORING, EMBOLY SUPPORTS AND BEARING. IT IS THE CONTRACTOR'S RESPONSIBILITY OF THE CONTRACTOR WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF THE CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL VERIFY THAT ALL DETAILS ARE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE TO APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED TO THE CONTRARY. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN. BEFORE ANY EXCAVATION OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO BE REPAIRED OR REPLACED. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING ALL DISCIPLINES HEREIN AND BETWEEN THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS. DISCREPANCIES OR ITEMS SATISFACTORILY RELATE TO ONE ANOTHER. NOTIFIER ARCHITECT SHALL BE RESPONSIBLE FOR ITEMS THAT CANNOT BE COORDINATED. CONTRACTOR SHALL EXERCISE EXTREME CARE IN EXCAVATION, TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT DAMAGE TO EXISTING UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE OWNER OF ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW CONSTRUCTION ELEMENTS SHALL NOT BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE OWNER AND STRUCTURAL ENGINEER OF RECORD.

15. ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATION (CCR).
16. THE LIMIT OF WORK LINE SHOWS THESE DRAWINGS IS AN APPROXIMATE LIMIT OF WORK ONLY. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL WORK, INCLUDING BUT NOT LIMITED TO:
17. REMOVAL OF EXISTING MANHOLES, PULLBOXES, ETC WHICH ARE TO BE PART OF THIS WORK, ALTHOUGH OCCURRING OUTSIDE OF SHOWN LIMIT OF WORK LINE.
18. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE REQUIRED FOR THE PROJECT. THE DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE PROJECT SYSTEM SHALL HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT:
19. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
20. A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. INSPECTOR TO BE CLASS 1.
21. A DSA APPROVED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT. THE REPORTS SHALL BE SUBMITTED TO ADDENDUMS BY THE STRUCTURAL ENGINEER OF RECORD.
22. THE INSPECTOR SHALL REPORT TO THE DSA FIELD ENGINEER. THE REPORTS OF ANY FAILURES OF TESTS AND INSPECTIONS ARE TO BE SUBMITTED TO DSA DISTRICT STRUCTURAL ENGINEER.
23. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH LOCAL ORDINANCES.
24. SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CFC CHAPTER 33.
25. THE LIMIT OF THE WORK LINE AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION, OR RECONSTRUCTION SHALL COMPLY IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OF EXISTING COMING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED CONSTRUCTION DOCUMENT, THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR. A CONSTRUCTION CHANGE DOCUMENT (CCD) OR SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR).

24. CONTRACTOR IS TO REVIEW AND COMPLY WITH ALL REQUIREMENTS AND MITIGATION MEASURES SET FORTH IN BOTH THE ENVIRONMENTAL IMPACT REPORT (ADDENDUM TO THE ENVIRONMENTAL IMPACT REPORT) (SCH NO. 2002071120) INCLUDING ATTACHED BIOLOGICAL RESOURCES TECHNICAL REPORT.
25. NO DUMPING OR PLACING OF ANY DIRT OR DEBRIS SHALL BE ALLOWED OUTSIDE OF THE CONTRACTORS LIMIT OF WORK AREA.

| PARTIAL LIST OF APPLICABLE CODES | |
|----------------------------------|---------------------------------------------------------------------------------|
| 2022 | CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. |
| 2022 | CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. |
| 2022 | (2022 INTERNATIONAL BUILDING CODE VOLUMES 1 & 2 AND 2022 CALIFORNIA AMENDMENTS) |
| 2022 | CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. |
| 2022 | (2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS) |
| 2022 | CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. |
| 2022 | (2021 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS) |
| 2022 | CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. |
| 2022 | (2021 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS) |
| 2022 | CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R. |
| 2022 | CALIFORNIA HISTORICAL BUILDING CODE (CHBC), TITLE 24 C.C.R. |
| 2022 | CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. |
| 2022 | (2020 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS) |
| 2022 | CALIFORNIA EXISTING BUILDING CODE (CEBC) PART 12, TITLE 24 C.C.R. |
| 2022 | (2021 INTERNATIONAL EXISTING CODE AND 2022 CALIFORNIA AMENDMENTS) |
| 2022 | CALIFORNIA REFERENCED STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R. |
| 2022 | CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. |
| TITLE 10 C.C.R. | PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS |
| 2019 | ASME A17.1/BSA-19 SAFETY CODE FOR ELEVATORS AND ESCALATORS |
| 2020 | ASCE 18.1 - SAFETY STANDARD FOR PLASM FLOORS AND STAIRWAY CHAIR LIFTS |

- | PARTIAL LIST OF APPLICABLE STANDARDS | | |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------|
| NFPA 13 | STANDARD FOR AUTOMATIC FIRE SPRINKLER SYSTEMS (CA AMENDED) | 2022 ED. |
| NFPA 14 | STANDARD FOR STANDPIPE AND HOSE SYSTEMS (CA AMENDED) | 2019 ED. |
| NFPA 17 | STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS | 2021 ED. |
| NFPA 17A | STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS | 2021 ED. |
| NFPA 20 | STANDARD FOR STATIONARY PUMPS FOR FIRE PROTECTION | 2019 ED. |
| NFPA 22 | STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION | 2013 ED. |
| NFPA 24 | STANDARD FOR THE INSTALLATION OF PRIVATE FIRE MAINS AND THEIR APPURTENANCES (CA AMENDED) | 2019 ED. |
| NFPA 72 | STANDARD FOR FIRE ALARM SIGNALING CODE (CA AMENDED) | 2022 ED. |
| NFPA 80 | STANDARD FOR FIRE DOORS AND FIRE RESISTING PARTITIONS | 2019 ED. |
| NFPA 2001 | STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED) | 2018 ED. |
| UL 300 | STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT | 2005 (R2014) |
| UL 464 | AUDIO SIGNAL APPLIANCES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES | 2003 ED. |
| UL 521 | STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS | 1999 ED. (R2005) |
| UL 1971 | STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED | 2002 ED. (R2018) |
| ICC 300 | STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRANDSTANDS | 2017 ED. |
| FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80 | | |
| SEE CALIFORNIA BUILDING CODE, CHAPTER 35 FOR STATE OF CALIFORNIA ADDENDUMS TO NFPA STANDARDS. | | |

() THE DRAWINGS OR SHEETS LISTED ON THE INDEX SHEET WITH AN (*)
THIS DRAWING PAGE OF SPECIFICATIONS/CALCULATIONS

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 REGULATORY TITLES UNDER SECTIONS 17002 AND 11138 OF THE EDUCATION CODE AND SECTION
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
AND DUTIES AS A REGISTERED PROFESSIONAL ENGINEER UNDER SECTIONS 17002 AND 11138 OF THE EDUCATION CODE AND SECTION
4-336, 4-341 AND 4-344" OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317 (B))

I CERTIFY THAT:

ALL DRAWINGS OR SHEETS LISTED ON THE SHEET INDEX WITH AN (*) IS/ARE IN GENERAL CONFORMANCE WITH
THE PROJECT DESIGN AND HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS

SIGNATURE _____ DATE _____
ARCHITECT OR ENGINEER DESIGNATED TO BE IN
GENERAL RESPONSIBLE CHARGE
JEFFERY GRAU
PRINT NAME
C-14648 01-01-22
LICENSE NUMBER _____ EXPIRATION DATE _____

1. REPLACEMENT OF HVAC UNITS ON BUILDING A (ADMINISTRATION BUILDING) AND BUILDING B (CLASSROOM BUILDING)/
2. OTHER WORK AS SHOWN IN THE DOCUMENTS AND AS REQUIRED FOR A COMPLETE PROJECT

- | NUMBE | |
|-------------|--|
| GENERAL | |
| G0.10 | |
| G0.11 | |
| 2 | |
| STRUCTU | |
| S0.01 | |
| S2.01 | |
| S2.02 | |
| S4.01 | |
| 4 | |
| MECHANIC | |
| M0.01 | |
| M0.02 | |
| M2.11A | |
| M2.11B | |
| M4.10A | |
| M4.10B | |
| M4.11A | |
| M4.11B | |
| M5.01 | |
| M5.02 | |
| M5.03 | |
| M6.01 | |
| M6.02 | |
| M6.03 | |
| M6.04 | |
| M6.05 | |
| M6.06 | |
| M7.01 | |
| 18 | |
| ELECTRIC | |
| E0.01 | |
| E4.10A | |
| E4.10B | |
| E4.11A | |
| E4.11B | |
| 5 | |
| Grand total | |

| NUMBER NAME | |
|-----------------|-------------------------------------------------------|
| GENERAL SHEET | |
| G0.10 | COVER SHEET |
| G0.11 | PROJECT DATA SHEET |
| 2 | |
| STRUCTURAL | |
| S0.01 | GENERAL NOTES |
| S2.01 | STRUCTURAL PLAN - ADMINISTRATION BLDG |
| S2.02 | STRUCTURAL PLAN - CLASSROOM BLDG |
| S4.01 | DETAILS |
| 4 | |
| MECHANICAL | |
| M0.01 | MECHANICAL LEGEND AND NOTES |
| M0.02 | MECHANICAL SCHEDULES |
| M2.11A | MECHANICAL FLOOR PLAN - ADMINISTRATION BLDG |
| M2.11B | MECHANICAL FLOOR PLAN - CLASSROOM BLDG |
| M4.10A | MECHANICAL ROOF DEMOLITION PLAN - ADMINISTRATION BLDG |
| M4.10B | MECHANICAL ROOF DEMOLITION PLAN - CLASSROOM BLDG |
| M4.11A | MECHANICAL ROOF PLAN - ADMINISTRATION BLDG |
| M4.11B | MECHANICAL ROOF PLAN - CLASSROOM BLDG |
| M5.01 | MECHANICAL MULTIZONE COMPONENTS AND CURBS |
| M5.02 | MECHANICAL MULTIZONE COMPONENTS AND CURBS |
| M5.03 | MECHANICAL DETAILS |
| M6.01 | MECHANICAL CONTROLS |
| M6.02 | MECHANICAL CONTROLS |
| M6.03 | MECHANICAL CONTROLS |
| M6.04 | MECHANICAL CONTROLS |
| M6.05 | MECHANICAL CONTROLS |
| M6.06 | MECHANICAL CONTROLS |
| M7.01 | TITLE 24 DOCUMENTATION |
| 18 | |
| ELECTRICAL | |
| E0.01 | ELECTRICAL LEGEND AND NOTES |
| E4.10A | ELECTRICAL ROOF DEMOLITION PLAN - ADMINISTRATION BLDG |
| E4.10B | ELECTRICAL ROOF DEMOLITION PLAN - CLASSROOM BLDG |
| E4.11A | ELECTRICAL ROOF PLAN - ADMINISTRATION BLDG |
| E4.11B | ELECTRICAL ROOF PLAN - CLASSROOM BLDG |
| 5 | |
| Grand total: 29 | |

NORTH ARROW

TICK INDICATES PLAN NORTH

ARROW INDICATES TRUE NORTH

ELEVATION CALLOUT
(TYPICAL FOR EXTERIOR)

LOCATION ON SHEET

SHEET WHERE ELEVATION IS DRAWN

ELEVATION CALLOUT
(TYPICAL FOR INTERIOR)

LOCATION ON SHEET

SHEET WHERE ELEVATION IS DRAWN

ELEVATION CALLOUT - ALT.
(FOR EXTERIOR AND WINDOWS)

LOCATION & SHEET WHERE ELEVATION IS DRAWN

SECTION CALLOUT

INDICATES A SIMILAR CONDITION

LOCATION ON SHEET

SHEET WHERE SECTION IS DRAWN

DETAIL CALLOUT

INDICATES A SIMILAR CONDITION

LOCATION ON SHEET

SHEET WHERE SECTION IS DRAWN

FIRST FLOOR

NAME OF ELEVATION (IF APPLICABLE)

ELEVATION ABOVE FINISHED FLOOR

GRID BUBBLE
EXISTING BUILDING GRID SYMBOL
GRID NUMBER
NEW BUILDING GRID SYMBOL

INTERIOR FINISH
MATERIAL FINISH TYPE
(SEE FINISH SCHEDULE)

(SEE FINISH SCHEDULE)

WINDOW CALLOUT

WINDOW NUMBER
(SEE WINDOW SCHEDULE)

AS6A WALL TYPE MARK - SEE A10.1

AS4A WALL STC RATING

55 IFB WALL FIRE RATING TYPE

MATCHLINE REFERENCE

LOCATION ON SHEET

SHEET WHERE PLAN IS DRAWN

KEYNOTE

? KEYNOTE NUMBER (SEE LEGEND)

The diagram illustrates the relationship between room data and room exiting information. On the left, a table lists room data: OFFICE, 100, 100, 100, 100, 100, 100, 100, 100, 100. On the right, a list of room exiting information is shown: AREA (SQ FT), OCCUPANT LOAD (AREA DIVIDED BY), OCCUPANT LOAD FACTOR (REQUIREMENT), OCCUPANCY TYPE, and NUMBER OF EXITS REQUIRED. Lines connect the room data table to the room exiting information list, indicating that the room data is used to calculate the room exiting information.

WIC CASEWORK TAG

MANUFACTURER REFERENCE

LOCK

CABINET DEPTH

CABINET HEIGHT

CABINET WIDTH

DISCIPLINE

G GENERAL
C CIVIL
L LANDSCAPE
A ARCHITECTURE
I INTERIORS
O EQUIPMENT
S STRUCTURAL
P PLUMBING
M MECHANICAL
E ELECTRICAL
FA FIRE ALARM
T TELECOM
AV AIR VENTILATION
K KITCHEN
FP FIRE PROTECTION

SHEET TYPE

0 CODE ANALYSIS/NOTES
1 SITE PLAN
2 FLOOR PLAN
3 CEILING PLAN
4 FROST PLAN
5 EXTERIOR ELEVATIONS
6 SECTIONS
7 ENLARGED PLANS
8 INTERIOR ELEVATIONS
9 SCHEDULES
10 DETAILS

BUILDING LETTER, SEGMENT, (USER DEFINED)

USED ONLY IF REQUIRED
FIRST COLUMN IS OMITTED

DISCIPLINE **SHEET TYPE** **SERIES/ORDER** **USER DEFINED (IF APPLICABLE)**

A **A** **1** **1** **1** **A** **A**

BUILDING LETTER (IF APPLICABLE) **FLOOR LEVEL OR SEQUENTIAL ORDER** **SEGMENT (IF APPLICABLE)**

| | | | |
|------------|-----------------------------------------------|----------|-------------------------------|
| (E) | EXISTING | FRT | FIBERGLASS REINFORCED PLASTIC |
| AB | ANCHOR BOLT | FRT | FIRE RETARDANT TREATED |
| AC PAVING | ASPHALTIC CONCRETE PAVING | FS | FINISH SURFACE |
| | | FTG | FOOTING |
| ACC | ACCESS/ACCESSIBLE | GB | GRAB BAR |
| ACR | ACOUSTICAL CEILING PANEL | GBR | GLASS MARMER REINFORCED |
| ACT | ACOUSTICAL CEILING TILE | GC | CONCRETE |
| ADJ | ADJUST/ADJUSTABLE | GL | GLASS TYPE |
| | ABOVE FINISH FLOOR | GLB | GLUE LAMINATED BEAM |
| AGG | AGGREGATE | GYP BD | GYPSPM BOARD |
| AHU | AIR HANDLING UNIT | GYP GLAS | GYPSPM PLASTIC |
| ARCH | ARCHITECTURAL | HB | HOSE BIB |
| ATT | ATTENUATION | HD | HEAVY DUTY |
| AUTO | AUTOMATIC | HDR | HEADER |
| BD | BOARD | HDWR | HARDWARE |
| BLCG | BLOCKING | HGT | HEIGHT |
| BUR | BUILT UP ROOFING | HM | HOLLOW METAL |
| CABT | CABINET | HP | HIGH POINT |
| CF | CUBIC FEET | HSS | HOLLOW STEEL SECTION |
| CFCI | CONTRACTOR FURNISHED, CONTRACTOR INSTALLED | INT | INTERIOR |
| | | INV | INVERT |
| CFOI | CONTRACTOR FURNISHED, OWNER INSTALLED | LANDS | LANDSCAPE |
| CG | CORNER GUARD | INV | LAVATORY |
| CGJ | CONTROL JOINT | LLH | LONG LEW HORIZONTAL |
| CL | CENTER LINE | LV | LONG VERTICAL |
| CLF | CHAIN LINK FENCE | LP | LOW POINT |
| CLR | CLEAR | LT WT | LIGHT WEIGHT |
| CMU | CONCRETE MASONRY UNIT | LVR | LOUVER |
| CO | CLEANOUT | MACH | MACHINE |
| COLUMN | COLUMN | MD | MEDIUM DENSITY FIBERBOARD |
| COMP | COMPRESSION / COMPOSITE | MBO | MEDIUM DENSITY OVERLAY |
| CUBIC FEET | | MECH | MEDIUM DENSITY OVERLAY |
| COORD | COORDINATE | MED | MEDIUM |
| CORR | CORRUGATED | MEMB | MEMBRANE |
| CT | CERAMIC TILE | MFR | MANUFACTURER |
| CTSK | COUNTER SKUNK | MH | MANHOLE |
| CW | CURTAINWALL | MO | MASONRY OPENING |
| DEPR | DEPRESSED / DEPRESSION | MTD | MOUNTED |
| DM | DRINKING FOUNTAIN | MTL | METAL |
| DIF | DIMENSION | NR | NON RATED |
| DISP | DISPENSER | NRS | NOISE REDUCTION COEFFICIENT |
| DSL | DOWNSPOUT | NTC | NOT TO SCALE |
| DTL | DETAIL | NR | NON RATED |
| DW | DISHWASHER | O | OVER |
| EWS | EACH WAY | O/A | OVERALL |
| EWF | EXTERIOR INSULATION FINISH | OG | ON CENTER |
| SYSTEM | | OD | OUTSIDE DIAMETER |
| EJ | EXPANSION JOINT | OFCI | OWNER FURNISHED, CONTRACTOR |
| ELEC | ELECTRICAL | OFI | OWNER FURNISHED, OWNER |
| ELEV | ELEVATION / ELEVATOR | OFI | INSTALLED |
| ENCL | ENCLOSE / ENCLOSURE | OFVI | OWNER FURNISHED, VENDOR |
| | | | INSTALLED |
| EOS | EDGE OF SLAB | | OPPOSITE HAND |
| EP | ELECTRICAL PANEL | OPER | OPERATOR |
| EQU | EQUIPMENT | OPNG | OPENING |
| ESC | EXCUT/CHUTE | ORD | OVERFLOW ROOF DRAIN |
| EW | ELECTRIC WATER COOLER | ORF | OVERFLOW LINE |
| EXPR | EXPOSED | PA | PUBLIC ADDRESS |
| FA | FIRE ALARM | PAF | POWDER ACTUATED FASTENER |
| FD | FLOOR DRAIN | PAC | PORTLAND CEMENT CONCRETE |
| FD | FIRE DEPARTMENT CONNECTION | PAN | PANTRY |
| FE | FIRE EXTINGUISHER | PER | PEDESTRIAN |
| FE | FIRE EXTINGUISHER W/ CABINET | PED | PERFORATED |
| FF | FINISH FLOOR | PERIM | PERIMETER |
| FG | FINISH GRADE | PERP | PERPENDICULAR |
| FH | FIRE HYDRANT | PH | PANIC HARDWARE |
| FHC | FIRE HOSE CABINET | PH | POS INDICATOR VALVE |
| FINSH | FLAT HEAD SCREW | PL | PLATE |
| FLR | FLOOR | PLAM | PLASTIC LAMINATE |
| FOC | FACE OF CONCRETE | PLAS | PLASTER |
| FOT | FACE OF FINISH | PLUMB | PLUMBING |
| FOM | FACE OF MASONRY | PNL | PANEL |
| FOS | FACE OF STUD | PNT | PAINT / PAINTED |
| FR | FIRE/REROOFING | POL | POINT OF CONNECTION |
| FR | FIRE RATED | POLY ISO | POLYISOCYANURATE |
| FRG | FIRE RATED GLASS | PREFIB | PREFIBRATED |

A map of the area around the proposed site. The map shows several roads: Interstate 5 (I-5) running vertically on the left, Lower Sacramento Blvd running vertically in the center, and Prospecter Dr running horizontally at the top. Other roads include Castle Oaks Dr, West Ln, E Hammer Ln, Tan O' Shanter Dr, E Swan Rd, and Highway 99 running vertically on the right. A shaded rectangular area labeled 'SITE' is located between Lower Sacramento Blvd and Prospecter Dr, and between Tan O' Shanter Dr and West Ln. A black dot is placed within the shaded area. The map also shows a diagonal road labeled 'TOWN RD' and a road labeled 'INTERSTATE 5'.

REVIEWING AGENCIES
STAMP HERE

3431-004-00C

2101 CAPITOL AVENUE, SUITE 100
SACRAMENTO, CA 95816
916 325 1100 / www.hmcarchitects.com

| Δ | DESCRIPTION | DATE |
|---|-------------|------|
| | | |

FACILITY:
PARKLANE ELEMENTARY SCHOOL
8405 TAM O'SHANTER DR.
STOCKTON, CA 95210

PROJECT:
**PARKLANE ELEMENTARY SCHOOL HVAC
REPLACEMENT**

SHEET NAME:
PROJECT DATA SHEET

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

SHEET

FILE NAME: 8405 TAM O'SHANTER F
PROJECT: HVAC MODERNIZATION
SHEET: 10/03/2023

NAILING SCHEDULE:

| DESCRIPTION | NAILING |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------|
| ROOF | |
| 1. BLKG BTWN CLG JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRMG BLW | 3-8d TOE NAIL, EA END |
| BLKG BTWN RAFTERS OR TRUSSES NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS | 2-8d TOE NAIL OR 2-16d END NAIL, EA END |
| FLAT BLKG TO TRUSS & WEB FILLER | 16d FACE NAIL @ 6"cc |
| 2. CLG JOIST TO TOP PLATE | 3-8d TOE NAIL EA JOIST |
| 3. CLG JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OV/ PARTITIONS (NO THRUST) | 3-16d FACE NAIL |
| 4. CLG JOIST ATTACHED TO PARALLEL RAFTER, LAPS OV/ PARTITIONS (W/ THRUST) | CBC TABLE 2308.7.3.1 |
| 5. COLLAR TIE TO RAFTER | 3-10d FACE NAIL |
| 6. RAFTER OR TRUSS TO TOP PLATE (SEE CBC SECTION 2308.7.3.1, TABLE 2308.7.3.1) | 3-10d TOE NAIL |
| 7. RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS; OR RAFTER TO 2" RIDGE | 3-10d TOE NAIL OR 2-16d END NAIL |
| WALL | |
| 8. STUD TO STUD (NOT BRACED WALL PANELS) | 16d @ 24"cc FACE NAIL |
| 9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (BRACED WALL PANELS) | 16d @ 6"cc FACE NAIL |
| 10. BUILT UP HEADER (2" TO 2" HEADER) | 16d @ 10"cc FACE NAIL |
| 11. CONT HEADER TO STUD | 4-8d TOE NAIL |
| 12. TOP PLATE TO TOP PLATE | 16d @ 16"cc FACE NAIL |
| 13. TOP PLATE TO TOP PLATE, AT END JOINTS | 8-16d EA SIDE OF END JOINT FACE NAIL (24" MIN LAP SPLICE EA END) |
| 14. BOT PLATE TO JOIST, RIM, BAND JOIST OR BLKG (NOT @ BRACED WALL PANELS) | 16d @ 16"cc |
| 15. BOT PLATE TO JOIST, RIM, BAND JOIST OR BLKG (BRACED WALL PANELS) | 2-16d @ 16"cc |
| 16. STUD TO TOP OR BOT PLATE | 4-8d TOE NAIL |
| 17. TOP OR BOT PLATE TO STUD | 2-16d END NAIL |
| 18. TOP PLATED, LAPS AT CORNERS & INTERSECTIONS | 2-16d FACE NAIL |
| 19. 1" BRACE TO EA STUD & PLATE | 2-8d FACE NAIL |
| 20. 1x6 SHEATHING TO EA BEARING | 2-8d FACE NAIL |
| 21. 1x8 & WIDER SHEATHING TO EA BEARING | 3-8d FACE NAIL |
| FLOOR | |
| 22. JOIST TO SILL, TOP PLATE OR GIRDER | 3-8d TOE NAIL |
| 23. RIM JOIST, BAND JOIST, OR BLKG TO TOP PLATE, SILL, OR OTHER FRAMING BLW | 8d @ 6"cc TOE NAIL |
| 24. 1x6 SUB FLOOR OR LESS TO EA JOIST | 2-8d FACE NAIL |
| 25. 2" SUB FLOOR TO JOIST OR GIRDER | 2-16d FACE NAIL |
| 26. 2" PLANKS EA BEARING (PLANK & BEAM, FLOOR & ROOF) | 2-16d FACE NAIL |
| 27. BUILT UP GIRDERS & BEAMS, 2" LUMBER LAYERS | 10d @ 24"cc FACE NAIL AT TOP & BOT, STAGGER ON OPPOSITE SIDES |
| 28. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS | 3-16d EA JOIST OR RAFTER FACE NAIL |
| 29. JOIST TO BAND JOIST OR RIM JOIST | 3-16d END NAIL |
| 30. BRIDGING OR BLKG TO JOIST, RAFTER OR TRUSS | 2-8d TOE NAIL EA END |

ROUGH CARPENTRY-MATERIALS:

- ALL SAWN LUMBER SHALL BE DOUG FIR UNO AND HAVE MOISTURE CONTENT NOT TO EXCEED 19% AT TIME OF INSTALLATION. EACH PIECE SHALL BEAR THE STAMP OF WCLUB OR WWPFA SHOWING GRADE MARK.
- ALL COMPOSITE WOOD PRODUCTS (IE LVL, LSL, GLULAM, ETC) SHALL BE PROTECTED FROM EXPOSURE AND EXCESSIVE MOISTURE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. MOISTURE CONTENT OF 16% PRIOR TO MEMBERS BEING WRAPPED OR ENCLOSED.
- ALL SAWN LUMBER TO BE SPECIES & GRADE AS NOTED BELOW:

| MEMBER | SPECIES & GRADE |
|---------------------|-----------------|
| 2x, & 3x STUDS | #2 DF |
| 2x JOISTS, PLATES | #1 DF |
| 4x HEADERS | #1 DF |
| 4x COLUMNS | #1 DF |
| 6x & LARGER HEADERS | SS DF |
| 6x & LARGER COLUMNS | SS DF |
- MATERIAL EXPOSED TO WEATHER OR IN CONTACT W/CONCRETE SHALL BE PRESSURE TREATED
- OPTIONAL FOR EXPOSED BX, BEAMS & POSTS TO BE #1 AC IN LIEU OF TREATED DF
- STUDS TALLER THAN 12'-0" SHALL BE #1 DF
- PRESERVATIVE TREATED & PRESSURE TREATED LUMBER
 - SAWN LUMBER TO BE PROTECTED FROM EARTH, WEATHER, EARTH, & CONCRETE/CMU OR WOOD SHALL BE TREATED
 - PRESERVATIVE TREATMENT & CLEARANCES TO SOIL OR CONCRETE SHALL BE PER CBC 2303.1.9 & 2304.12.1.2
 - FIELD CUTS & HOLES IN TREATED LUMBER SHALL BE PROTECTED IN ACCORDANCE W/AWPA STANDARD M4
 - CONTRACTOR TO COORDINATE WITH TREATED WOOD SUPPLIER TO DETERMINE THE APPROPRIATE LEVEL OF CORROSION PROTECTION FOR HARDWARE & FASTENERS IN CONTACT WITH WOOD TREATED WITH CORROSIVE CHEMICALS.
- ALL WOOD PANEL STRUCTURAL SHEATHING SHALL BE STAMPED W/APA TRADEMARK AND CONFORM TO MOST CURRENT EDITION OF PS-1. USE THICKNESS AND NAILING AS SHOWN ON DRAWINGS. SHEATHING SHALL HAVE EXPOSURE RATING AS APPROPRIATE FOR ON-SITE EXPOSURE CONDITIONS DURING CONSTRUCTION AND IN FINAL CONDITION.

ROUGH CARPENTRY-NAILS:

- ALL SPECIFIED NAILS SHALL CONFORM TO ASTM F1667 OR ICC ESR-1539. ALTERNATE FASTENERS MUST HAVE AN ICC EVALUATION REPORT AND MAY NOT BE USED UNLESS APPROVED IN WRITING BY RW CONSULTING ENGINEERS. ALL NAILS SHALL BE FULL ROUND HEAD WITH MINIMUM PROPERTIES AS FOLLOWS:

| SPECIFIED FASTENER | DIAMETER | LENGTH | PENETRATION | APPLICATION |
|--------------------|----------|--------|-------------|-------------|
| 8d | .131"Ø | 2½" | 1¾" | SHTG/FRMG |
| 10d | .148"Ø | 3" | 1½" | SHTG/FRMG |
| 16d BOX | .135"Ø | 3½" | 1¾" | FRMG |
| 16d SINKER | .148"Ø | 3½" | 1½" | FRMG |
| 16d COMMON | .162"Ø | 3½" | 1¾" | FRMG |

ALL NAILS SHALL BE COMMON WIRE NAILS EXCEPT WHERE SPECIFICALLY NOTED

- NAILS SHALL BE LOCATED AND SPACED TO PREVENT SPLITTING OF WOOD. PREDRILL ALL FASTENERS 75% MAX OF FASTENER DIAMETER WHERE WOOD TENDS TO SPLIT.
- TOENAILS SHALL BE DRIVEN AT AN ANGLE OF APPROX 30° WITH THE MEMBER AND STARTED APPROX ¼ THE LENGTH OF THE NAIL FROM THE MEMBER END.
- NAILS USED IN HARDWARE SHALL BE AS SPECIFIED BY HARDWARE MFR.
- MINIMUM NAILING SHALL BE PER CBC TABLE 2304.10.1 UNO (SEE TABLE ON THIS SHEET)
- NAILS INSTALLED IN TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS. AS A MINIMUM, NAILS INTO TREATED LUMBER OR IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153 CLASS D OR TYPE 316 STAINLESS STEEL.
- SHEATHING NAILS SHALL BE DRIVEN SO THAT THEIR HEAD OR CROWN ARE FLUSH WITH THE SURFACE OF THE SHEATHING.

ROUGH CARPENTRY-HARDWARE:

- ALL STEEL CONNECTORS, STRAPS, HANGERS, HARDWARE, ETC SHALL BE BY SIMPSON STRONG-TIE OR APPROVED EQUAL UNO. ATTACH WITH FASTENERS PER MFR TO ACHIEVE THE MAXIMUM TABULATED VALUE.
- HARDWARE COMPONENTS AND FASTENERS INSTALLED AGAINST OR INTO TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS. AS A MINIMUM, ALL HARDWARE AND FASTENERS INTO/AGAINST TREATED LUMBER OR IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED (G155 MIN FOR HARDWARE) OR STAINLESS STEEL.
- INSTALL ALL SPECIFIED FASTENERS BEFORE LOADING THE CONNECTION.
- NAILS FOR HARDWARE SHALL NOT BE OVERDRIVEN OR DEFORM THE PART. THE CONTRACTOR SHALL VERIFY WITH THE HARDWARE MFR THAT THE PART PUBLISHED CAPACITIES ARE NOT REDUCED AS A RESULT OF THE INSTALLED CONDITION.
- FASTENER SUBSTITUTIONS FOR HARDWARE ARE NOT ALLOWED UNLESS APPROVED FOR USE BY THE MFR AND THE HARDWARE CAPACITY IS NOT REDUCED.
- WASHERS AT WOOD CONNECTIONS SHALL BE SQUARE PLATE STEEL OR MALLEABLE IRON WITH THE FOLLOWING MIN DIMENSIONS:

| FASTENER DIAMETER | MIN WASHER DIMENSIONS | MIN THICKNESS |
|-------------------|-----------------------|---------------|
| ½" | 2" x 2" | ⅜" |
| ⅝" | 2½" x 2½" | ¾" |
| ¾" | 2¾" x 2¾" | ⅞" |
| ⅞" | 3" x 3" | ⅞" |
| 1" | 3½" x 3½" | ⅞" |

ROUGH CARPENTRY-LAG SCREWS:

- ALL SPECIFIED LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1.
- LEAD HOLES FOR LAG SCREWS SHALL BE BORED TO AVOID SPLITTING OF WOOD MEMBERS. THE LEAD HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AND LENGTH AS THE UNTHREADED SHANK. THE LEAD HOLE FOR THE THREADED PORTION SHALL NOT EXCEED 70% OF THE SHANK DIAMETER AND HAVE MIN LENGTH EQUAL TO THREADED PORTION.
- LAG SCREWS SHALL BE INSTALLED BY TURNING OF THE LAG SCREW & NOT BY DRIVING OF A HAMMER.
- SOAP OR OTHER LUBRICANT MAY BE USED ON THE LAG SCREW OR IN THE LEAD HOLE AS REQ'D TO PREVENT DAMAGE TO THE LAG SCREW.
- LAG SCREWS INSTALLED IN TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS. AS A MINIMUM, LAG SCREWS INTO TREATED LUMBER OR IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153 CLASS C OR TYPE 316 STAINLESS STEEL.
- LAG SCREWS SHALL BE INSTALLED WITH A STANDARD CUT WASHER OR PLATE WASHER WITH CORROSION PROTECTION TO MATCH THE LAG SCREW.
- ALL LAG SCREWS TO BE TIGHTENED DURING INSTALLATION & RE-TIGHTENED JUST PRIOR TO CLOSING IN.

DESIGN CRITERIA:

- PROJECT ADDRESS: 8405 TAM O'SHANTER DRIVE STOCKTON, CA 95210
- BUILDING CODE: 2022 CALIFORNIA BUILDING CODE
- GRAVITY LOADS: (ESTIMATES OF AS-BUILT CONDITIONS)

| | |
|----------------|-------------------------------------|
| BUILDING ROOFS | DEAD LOAD = 13 PSF |
| | ROOF LIVE LOAD = 20 PSF (REDUCIBLE) |
- LATERAL LOADS: RISK CATEGORY III

| | |
|-------------------------------------|----------------------|
| WIND LOADS (ASCE 7-16) | |
| BASIC WIND SPEED | 100 MPH (77 MPH ASD) |
| EXPOSURE | C |
| BUILDING IS CONSIDERED "ENCLOSED" | |
| PRESSURE COEFFICIENTS | |
| INTERNAL PRESSURE COEFFICIENT, GCp= | ± 0.18 |
| TOPOGRAPHIC FACTOR, Kzt= | 1.00 |
| WIND DIRECTIONALITY FACTOR, Kd= | 0.85 |
| GROUND ELEVATION FACTOR, Ke= | 1.00 |
| VELOCITY PRESSURES | |
| q (0'-15') = | 11.0 PSF (ASD) |
| q (15'-20') = | 11.6 PSF (ASD) |
| SEISMIC LOADS (ASCE 7-16) | |
| SITE CLASS | D |
| SEISMIC DESIGN CATEGORY | D |
| IMPORTANCE FACTOR, I | 1.25 |
| REDUNDANCY FACTOR, R | 1.0 |
| Ss = | 0.692 |
| Si = | 0.276 |
| Fp = | 1.246 |
| Pf = | 2.048 |
| Sms = | 0.862 |
| Smi = | 0.565 |
| Shs = | 0.575 |
| Shi = | 0.377 |
| MECHANICAL EQUIPMENT (ASCE 7-16) | |
| IMPORTANCE FACTOR, I | 1.00 |
| RESPONSE MOD FACTOR, R | 6.0 |
| AMPLIFICATION FACTOR, Ah | 2.5 |

GENERAL NOTES:

- ALL NEW WORK SHALL CONFORM TO TITLE 24 2022 EDITIONS WITH ALL DSA AMENDMENTS AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
- THIS SET OF STRUCTURAL DRAWINGS IS APPLICABLE ONLY TO THE LISTED PROJECT AND SITE LOCATION.
- NOTES ON THIS SHEET ARE TYPICAL AND SHALL APPLY UNLESS OTHERWISE NOTED OR SHOWN. TYPICAL DETAILS SHALL APPLY FOR ALL LIKE CONDITIONS UNLESS OTHERWISE NOTED OR DETAILED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, ELEVATIONS, EXISTING CONDITIONS, AND OTHER RELATED ITEMS. THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF RECORD IF ANY CONFLICTS ARE SHOWN OR NOTED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFORM TO RELEVANT SECTIONS OF THE CALIFORNIA "CONSTRUCTION SAFETY ORDERS" AND ALL OSHA REQUIREMENTS. THE ENGINEER OF RECORD ACCEPTS NO RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY W/ THESE REQUIREMENTS.
- STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. DESIGN AND CONSTRUCTION OF ALL TEMPORARY BRACING, SHORING, FORMING, ETC. REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- A COPY OF TITLE 24 CCR PARTS 1-5 SHALL BE KEPT ON SITE AT ALL TIMES (T-24 PART 1, 4-317(c)).

INSPECTION NOTES:

- ALL TESTS AND INSPECTIONS ARE TO BE PROVIDED BY A QUALIFIED TESTING LAB OF RECORD, HIRED BY THE DISTRICT (T-24 PART 1, 4-335).
- ALL TESTS AND INSPECTIONS SHALL CONFORM TO CHAPTER 17A OF THE 2022 CBC AND THE PROJECT SPECIFIC DSA-103.
- ALL SPECIAL INSPECTORS SHALL HAVE A MINIMUM OF THREE YEARS OF EXPERIENCE WITH MATERIAL BEING INSPECTED.
- A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER OF RECORD SHALL OBSERVE ALL GRADING, BUILDING PAD PREP, AND FOOTING EXCAVATIONS.

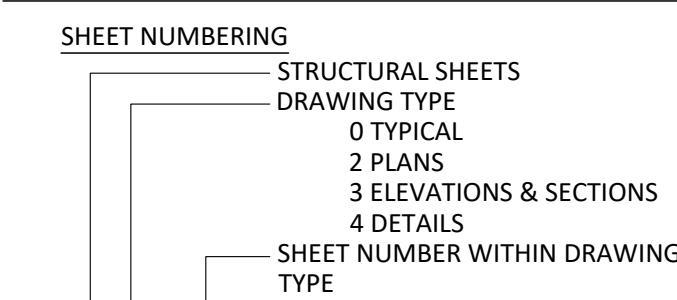
STRUCTURAL SHEET INDEX:

| | |
|-------|--------------------------------------|
| S0.01 | STRUCTURAL NOTES |
| S2.01 | STRUCTURAL PLAN - ADMIN BUILDING |
| S2.02 | STRUCTURAL PLAN - CLASSROOM BUILDING |
| S4.01 | DETAILS |

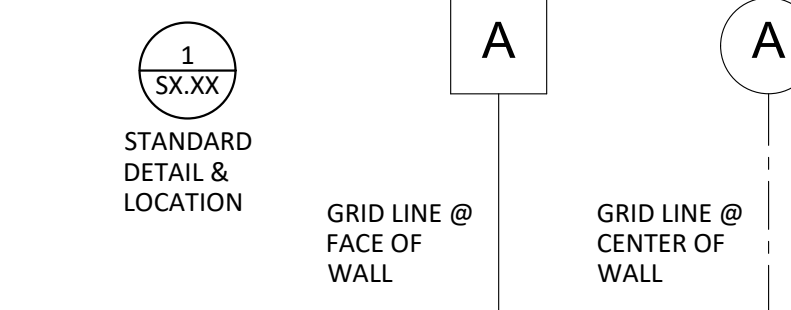
ABBREVIATIONS:

| | |
|-------|----------------------------------------------|
| AB | ANCHOR BOLT |
| ACI | AMERICAN CONCRETE INSTITUTE |
| AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION |
| ASIS | AMERICAN IRON AND STEEL INSTITUTE |
| APA | AMERICAN PLYWOOD ASSOCIATION |
| ARCH | ARCHITECT/ARCHITECTURAL |
| ASTM | AMERICAN SOCIETY OF TESTING AND MATERIALS |
| AWS | AMERICAN WELDING SOCIETY |
| BLKG | BLOCKING |
| BLW | BELOW |
| BTWN | BETWEEN |
| B.O. | BOTTOM OF |
| BOT | BOTTOM |
| CBC | CALIFORNIA BUILDING CODE |
| cc | CENTER TO CENTER |
| CJ | COLD JOINT |
| CLG | CEILING |
| CMU | CONCRETE MASONRY UNIT |
| Ø | DIAMETER |
| DWGS | DRAWINGS |
| DSA | DIVISION OF THE STATE ARCHITECT |
| ES | EDGE SCREW w/SPACING PER SHEAR WALL DIAGRAMS |
| F.O. | FACE OF |
| FRMG | FRAMING |
| HD | HOLDOWN |
| HSS | HOLLOW STRUCTURAL SECTION |
| L | STEEL ANGLE |
| MAX | MAXIMUM |
| MC | MISCELLANEOUS CHANNEL |
| MIN | MINIMUM |
| NTS | NOT TO SCALE |
| # | NUMBER OR POUNDS |
| OH | OPPOSITE HAND |
| OV | OVER |
| PAF | POWDER-ACTUATED FASTENER |
| PJ | PANEL JOINT |
| SEOR | STRUCTURAL ENGINEER OF RECORD |
| SMS | SHEET METAL SCREW |
| T & B | TOP AND BOTTOM |
| THRU | THROUGH |
| T.O. | TOP OF |
| TYP | TYPICAL |
| UNO | UNLESS NOTED OTHERWISE |
| w/ | WITH |

DRAWING STANDARDS:



SYMBOLS



AGENCY APPROVAL:



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3431004-000

2101 CAPITOL AVENUE, SUITE 100
SACRAMENTO, CA 95816
916 325 1100 / www.hmcarchitects.com

ISSUE

| DESCRIPTION | DATE |
|-------------|------|
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RW CONSULTING

Engineers Inc

1450 HARBOR BLVD SUITE F
WEST SACRAMENTO, CA 95691
916.716.6910



FACILITY:

LODI USD - PARKLANE ELEMENTARY SCHOOL
8405 TAM O'SHANTER DRIVE
STOCKTON, CA 95210

PROJECT:

HVAC MODERNIZATION

SHEET NAME:

STRUCTURAL NOTES

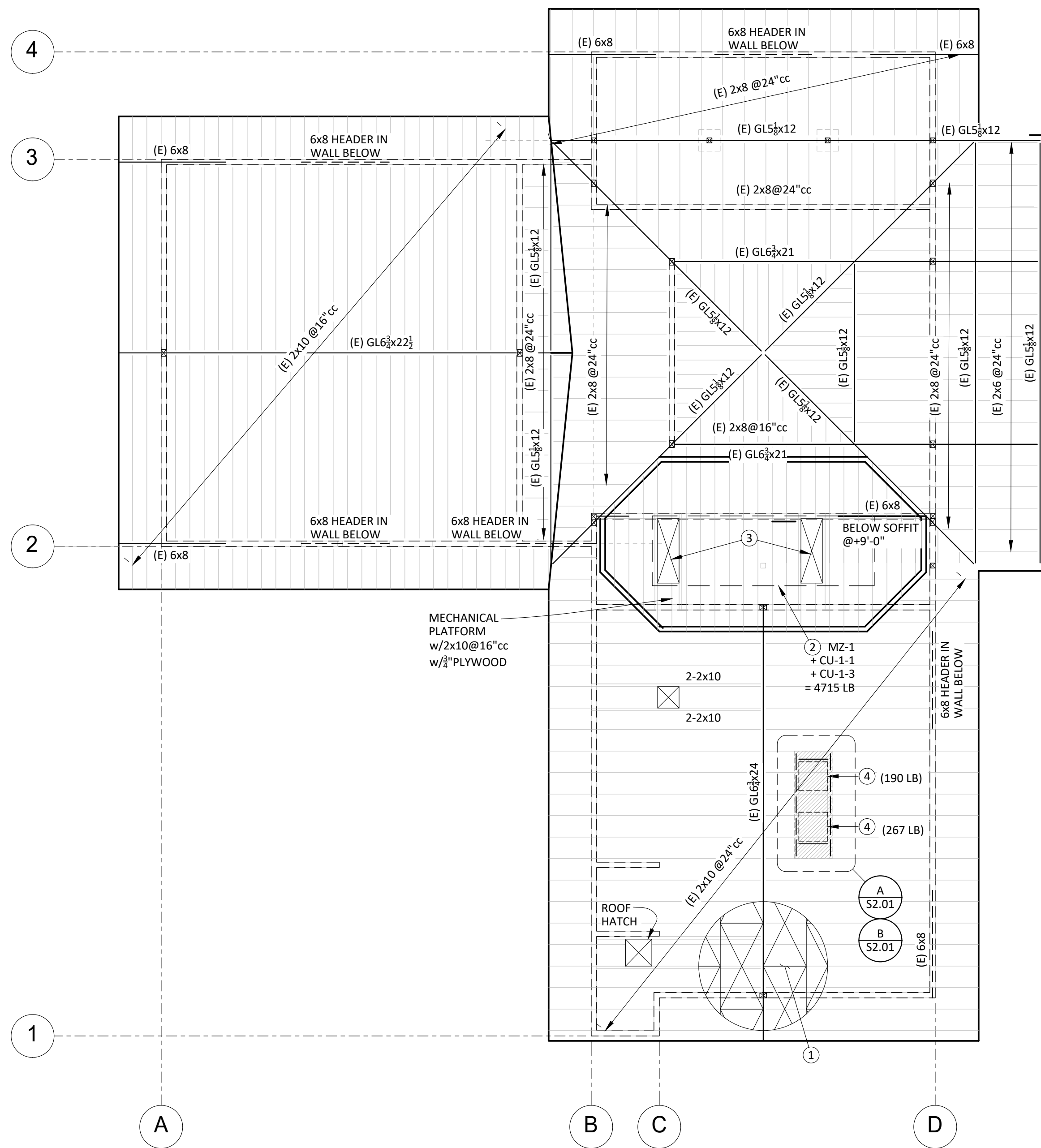
CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

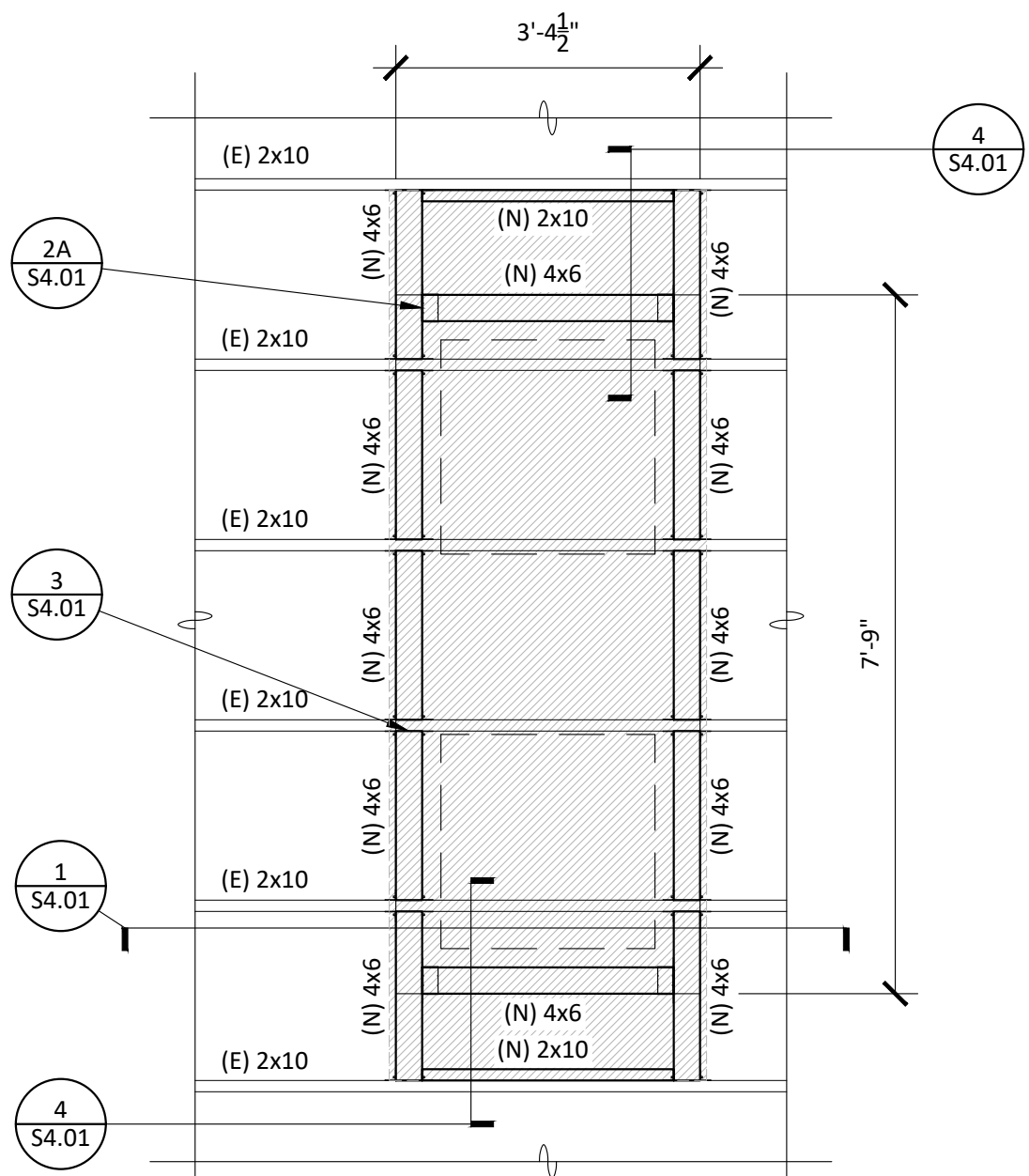
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S0.01

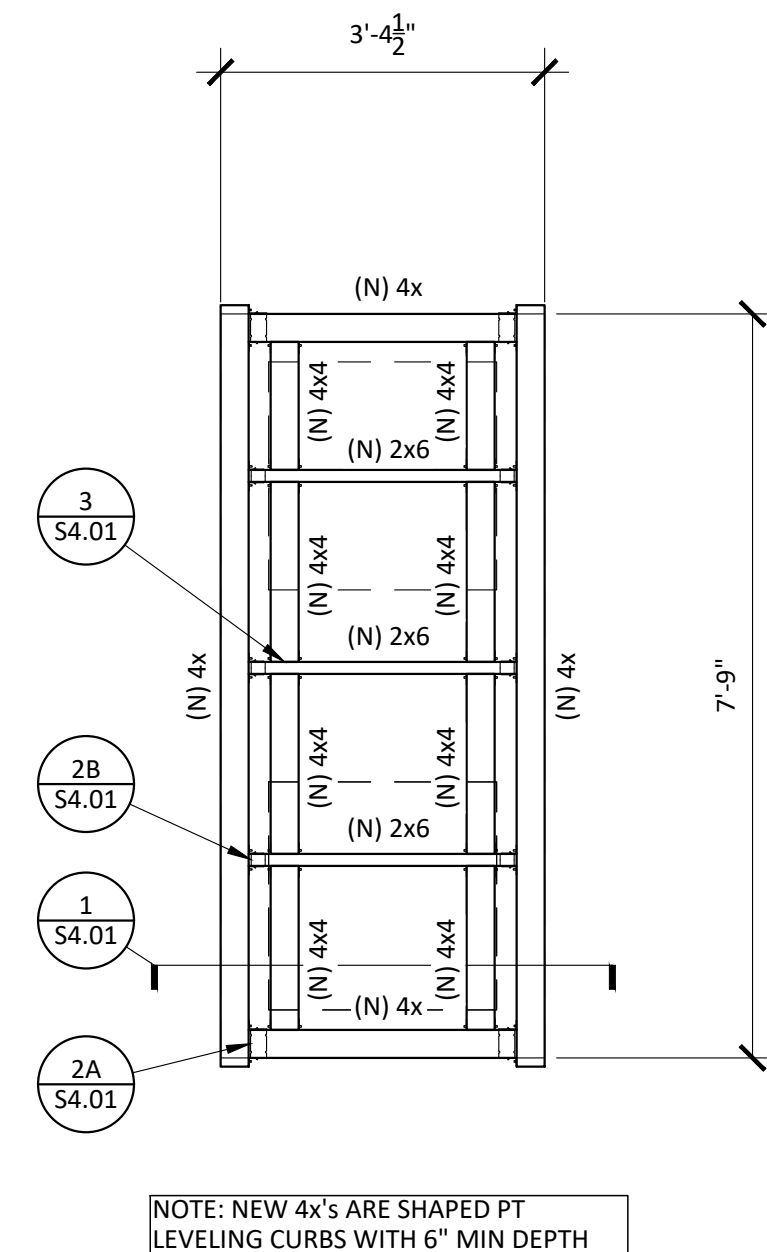
FILE NAME: 20230301-LODI USD
DRAWING: 10-03-2023
SHEET: 10-03-2023



STRUCTURAL PLAN
ADMIN - ROOF FRAMING
1/2" = 1'-0"



PARTIAL FRAMING PLAN
1/2" = 1'-0"



NOTE: NEW 4x's ARE SHAPED PT
LEVELING CURBS WITH 6" MIN DEPTH

PLATFORM FRAMING PLAN
1/2" = 1'-0"

STRUCTURAL PLAN NOTES:

- CONTRACTOR SHALL COORDINATE ALL WORK CONTAINED HEREIN WITH ALL PROJECT WORK BY OTHERS INCLUDING CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL & PLUMBING.
- STRUCTURAL SCOPE IS LIMITED TO MISCELLANEOUS FRAMING MODIFICATIONS TO ACCOMMODATE HVAC UPGRADES TO EACH BUILDING. ALL WORK PERFORMED IS TO NOT IMPACT EXISTING LATERAL FORCE RESISTING SYSTEM.
- NEW MECHANICAL EQUIPMENT IS TO BE PLACED ON CURBS PER MECHANICAL DRAWINGS.
- ALL NEW FRAMING REQUIRED IS TO BE INSTALLED FROM ABOVE THE ROOF DECK OR STRUCTURAL SHEATHING.
- ALL DUCT DROP OPENINGS IN THE ROOF ARE EXISTING. NO NEW ROOF PENETRATIONS ARE TO BE CREATED WITHOUT PRIOR APPROVAL OF SEOR.
- CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AT LOCATION OF EQUIPMENT PRIOR TO COMMENCING WORK.

STRUCTURAL PLAN LEGEND:

- EXISTING STUD WALL = - - - - -
- EXISTING BEAM/GIRDER MEMBER = _____
- EXISTING JOIST/RAFTER MEMBER = _____
- NEW FRAMING MEMBER = _____
- NEW HVAC EQUIPMENT = []
- EXTENT OF EXISTING SHEATHING TO BE REMOVED AND REPLACED WITH NEW 1/2" STRUCT 1 EXTERIOR GRADE - NAIL ALL EDGES w/ 8d @ 4" cc AND NAIL FIELD w/ 8d @ 12" cc

STRUCTURAL PLAN KEY NOTES:

- EXISTING 1/2" PLYWOOD SHEATHING
- NEW HVAC EQUIPMENT (TO REPLACE EXISTING EQUIPMENT) TO BE INSTALLED ON EXISTING CURBS, WEIGHT INDICATED IN PARENTHESIS - SEE MECHANICAL DRAWINGS
- EXISTING DUCT OPENINGS TO REMAIN
- NEW HVAC EQUIPMENT (PLACED IN NEW LOCATION) TO BE INSTALLED ON NEW PLATFORM, WEIGHT INDICATED IN PARENTHESIS - SEE MECHANICAL DRAWINGS, A/S2.01 & B/S2.01

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2101 CAPITOL AVENUE, SUITE 100
SACRAMENTO, CA 95816
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RW CONSULTING
Engineers Inc
1450 HARBOR BLVD SUITE F
WEST SACRAMENTO, CA 95691
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STOCKTON, CA 95210

PROJECT:

HVAC MODERNIZATION

SHEET NAME:

STRUCTURAL PLAN - ADMIN BUILDING

CONSTRUCTION DOCUMENTS

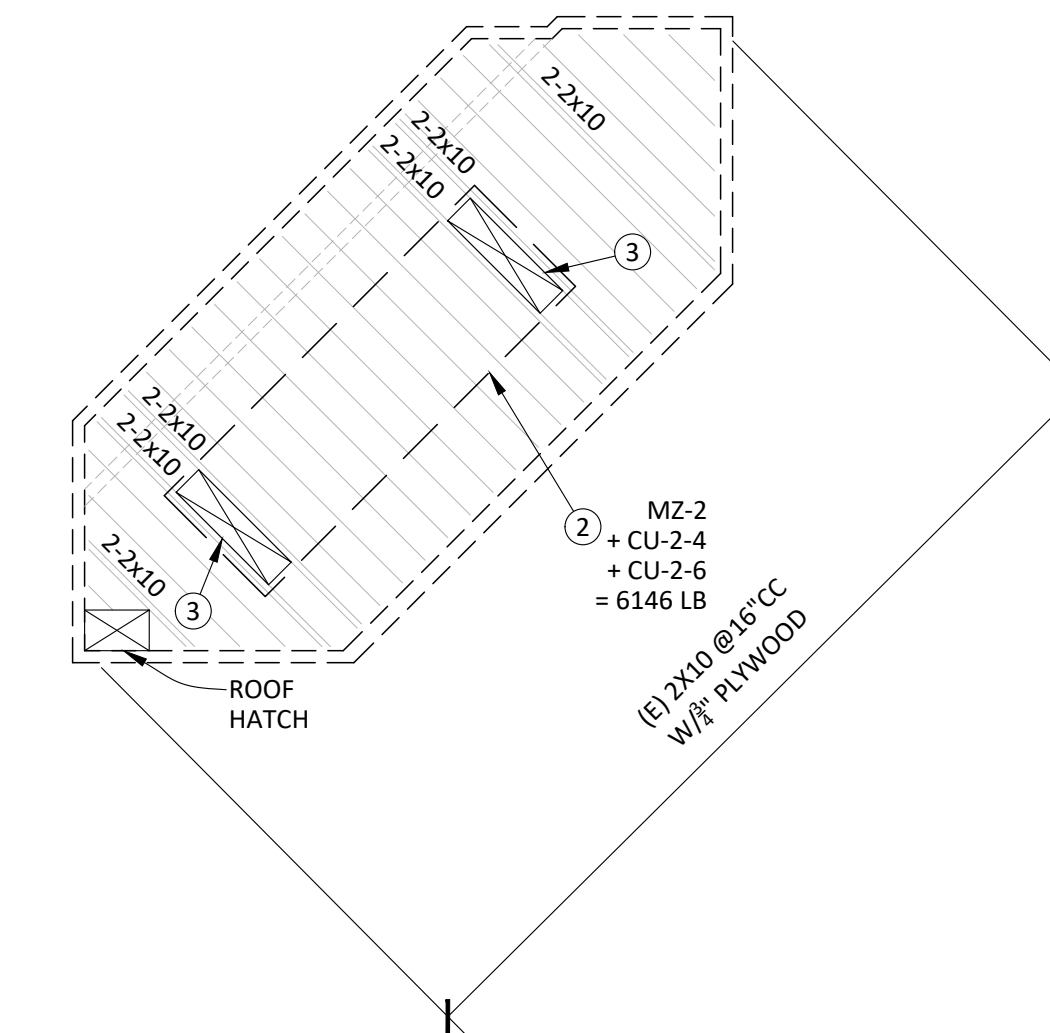
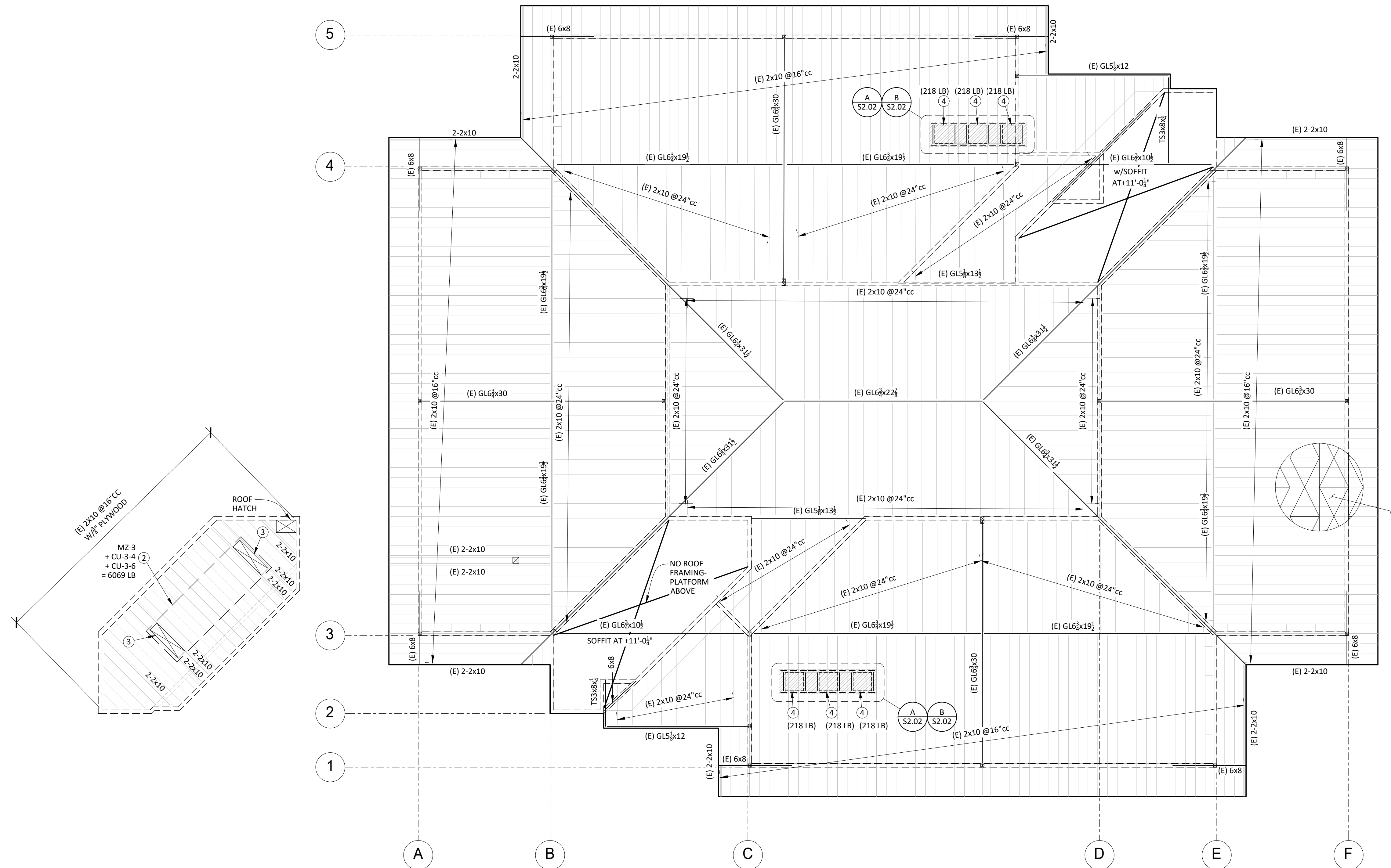
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S2.01

PLEASE RECYCLE

ALL DIMENSIONS SHOWN ABOVE THE
DRAWING ARE IN FEET AND INCHES
UNLESS OTHERWISE NOTED
SHEET: ORIGINAL PAGE 2 OF 2



STRUCTURAL PLAN NOTES:

- CONTRACTOR SHALL COORDINATE ALL WORK CONTAINED HEREIN WITH ALL PROJECT WORK BY OTHERS INCLUDING CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL & PLUMBING.
- STRUCTURAL SCOPE IS LIMITED TO MISCELLANEOUS FRAMING MODIFICATIONS TO ACCOMMODATE HVAC UPGRADES TO EACH BUILDING. ALL WORK PERFORMED IS TO NOT IMPACT EXISTING LATERAL FORCE RESISTING SYSTEM.
- NEW MECHANICAL EQUIPMENT IS TO BE PLACED ON CURBS PER MECHANICAL DRAWINGS.
- ALL NEW FRAMING REQUIRED IS TO BE INSTALLED FROM ABOVE THE ROOF DECK OR STRUCTURAL SHEATHING.
- ALL DUCT DROP OPENINGS IN THE ROOF ARE EXISTING. NO NEW ROOF PENETRATIONS ARE TO BE CREATED WITHOUT PRIOR APPROVAL OF SEOR.
- CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AT LOCATION OF EQUIPMENT PRIOR TO COMMENCING WORK.

STRUCTURAL PLAN LEGEND:

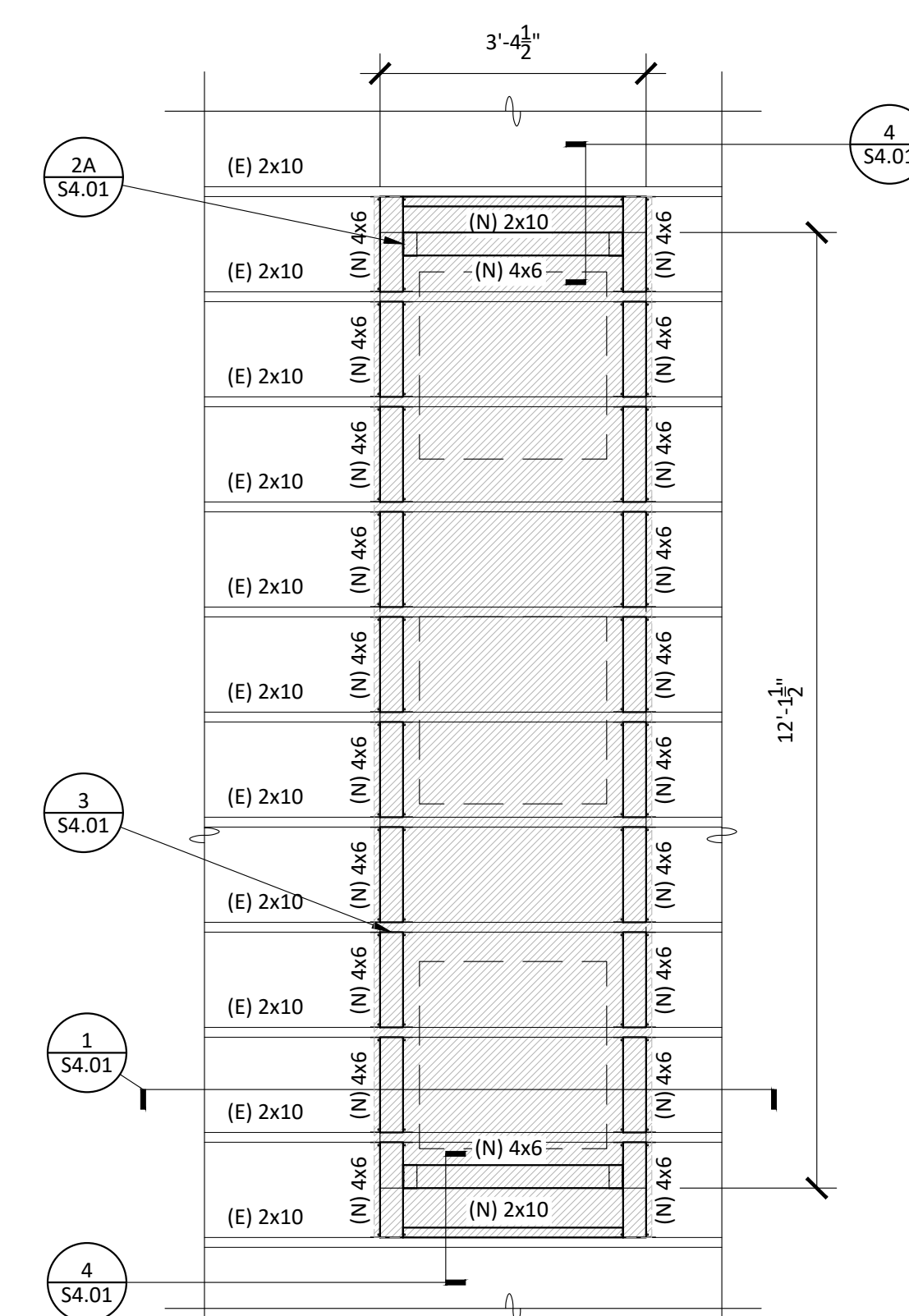
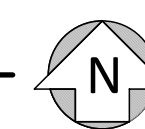
| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| EXISTING STUD WALL | ===== |
| EXISTING BEAM/GIRDER MEMBER | ===== |
| EXISTING JOIST/RAFTER MEMBER | ===== |
| NEW FRAMING MEMBER | ===== |
| NEW HVAC EQUIPMENT | [] |
| EXTENT OF EXISTING SHEATHING TO BE REMOVED AND REPLACED WITH NEW 1/2" STRUCT 1 EXTERIOR GRADE - NAIL ALL EDGES w/ 8d @ 4" cc AND NAIL FIELD w/ 8d @ 12" cc | [] |

STRUCTURAL PLAN KEY NOTES:

- EXISTING 3/4" PLYWOOD SHEATHING
- NEW HVAC EQUIPMENT (TO REPLACE EXISTING EQUIPMENT) TO BE INSTALLED ON EXISTING CURB, WEIGHT INDICATED IN PARENTHESIS - SEE MECHANICAL DRAWINGS
- EXISTING DUCT OPENINGS TO REMAIN
- NEW HVAC EQUIPMENT (PLACED IN NEW LOCATION) TO BE INSTALLED ON NEW PLATFORM, WEIGHT INDICATED IN PARENTHESIS - SEE MECHANICAL DRAWINGS, A/S2.02 & B/S2.02

STRUCTURAL PLAN CLASSROOM - ROOF FRAMING

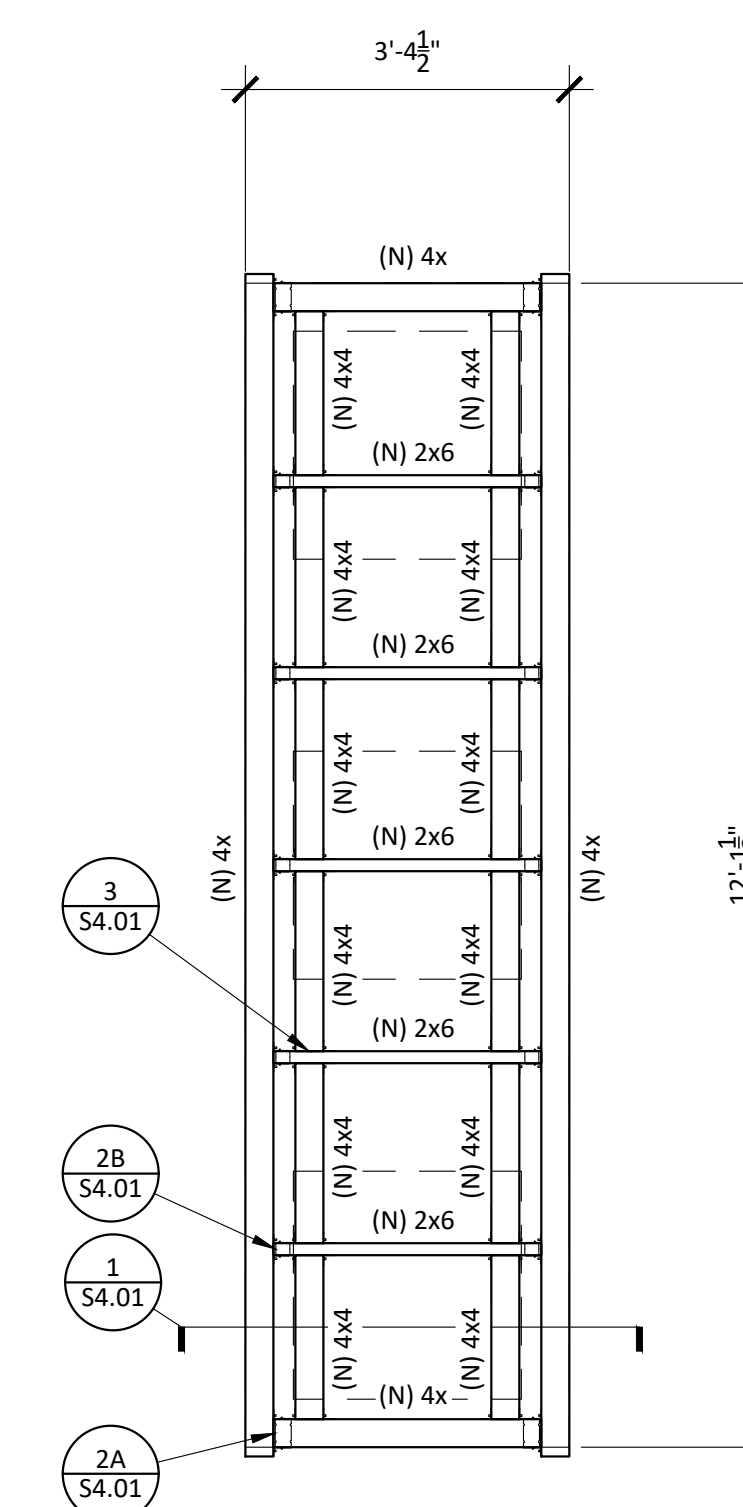
1/8" = 1'-0"



PARTIAL FRAMING PLAN

3/8" = 1'-0"

B



NOTE: NEW 4x's ARE SHAPED PT
LEVELING CURBS WITH 6" MIN DEPTH

PLATFORM FRAMING PLAN

3/8" = 1'-0"

A

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3431004-000

2101 CAPITOL AVENUE, SUITE 100
SACRAMENTO, CA 95816
916 325 1100 / www.hmcarchitects.com

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RW CONSULTING
Engineers Inc
1450 HARBOR BLVD SUITE F
WEST SACRAMENTO, CA 95691
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PROJECT:

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SHEET NAME:

STRUCTURAL PLAN - CLASSROOM BUILDING

CONSTRUCTION DOCUMENTS

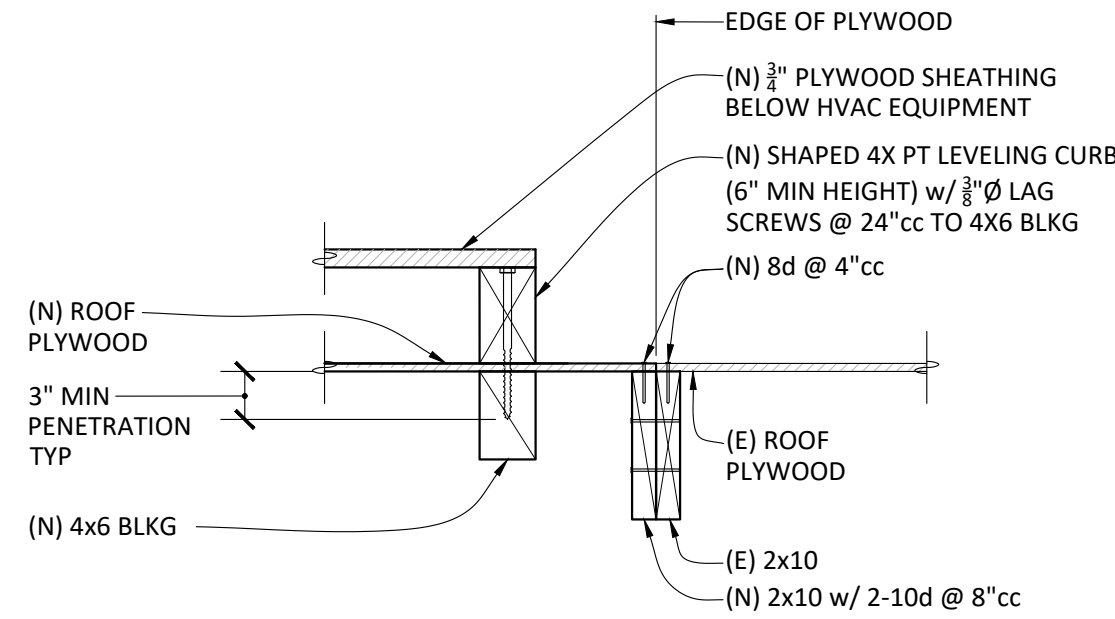
DATE: 10.03.2023

SHEET:

S2.02

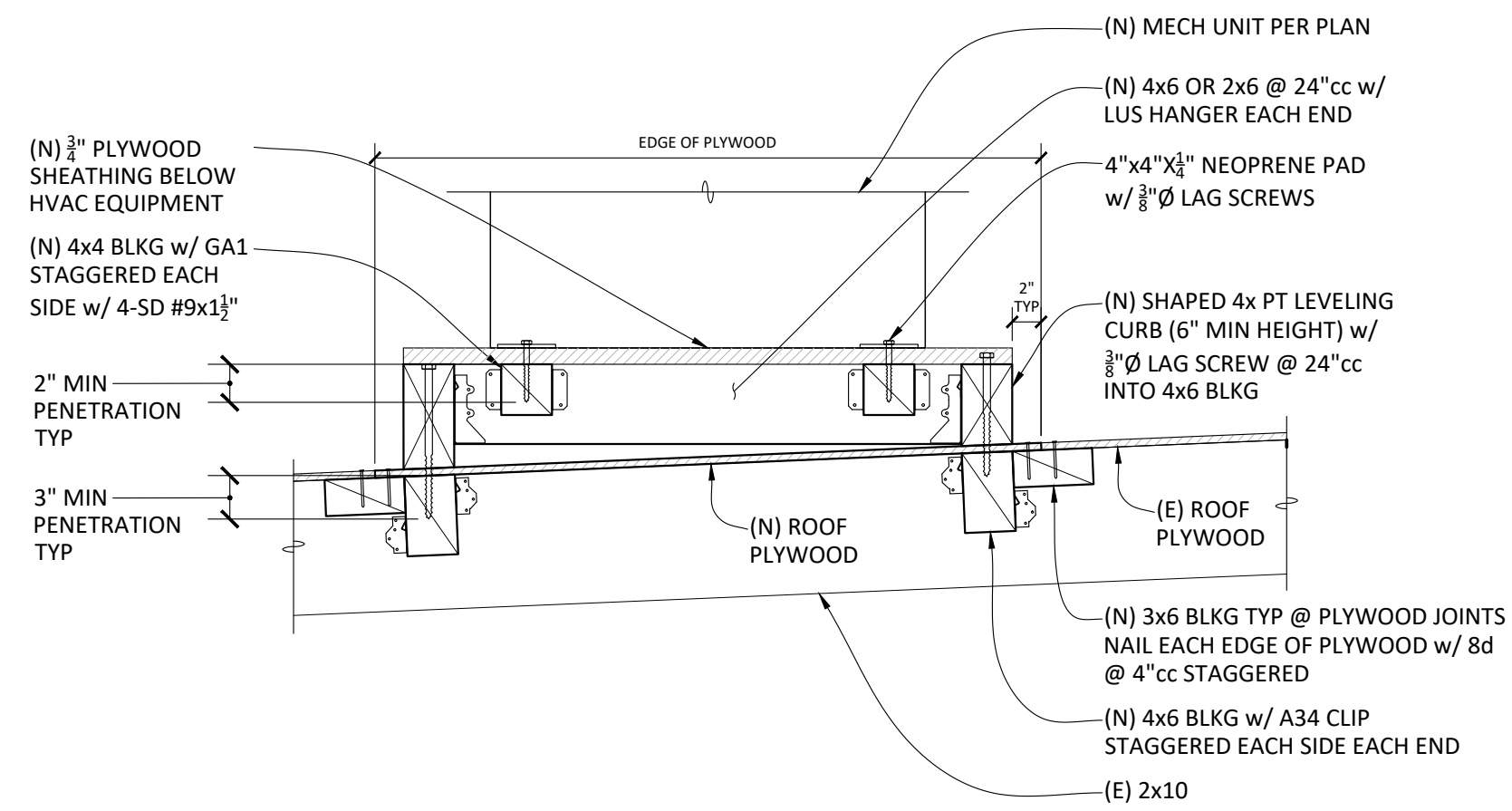
PLEASE RECYCLE

FILE LINE SHOWN ABOVE IS FOR
DETAIL 4 ONLY. SEE SHEET 100-000
FOR SHEET 100-000.



- FRAMED PLATFORM NOTES:
1. TOP OF PLATFORMS ARE TO BE SHEATHED WITH $\frac{3}{4}$ " STRUCTURAL PLYWOOD - NAIL WITH 10d @ 6"cc ALONG ALL EDGES AND 12"cc WITHIN FIELD. NAIL TO ALL CROSS BLOCKING WITH 10d @ 6"cc. ALL EDGES ARE TO BE SUPPORTED ON FRAMING MEMBERS.
 2. STRUCTURAL PLYWOOD TO IS TO BE EXTERIOR GRADE, EXPOSURE 1 PER APA DOC PS-1.

DETAIL 4
 $\frac{1}{8}" = 1'-0"$



- FRAMED PLATFORM NOTES:
1. TOP OF PLATFORMS ARE TO BE SHEATHED WITH $\frac{3}{4}$ " STRUCTURAL PLYWOOD - NAIL WITH 10d @ 6"cc ALONG ALL EDGES AND 12"cc WITHIN FIELD. NAIL TO ALL CROSS BLOCKING WITH 10d @ 6"cc. ALL EDGES ARE TO BE SUPPORTED ON FRAMING MEMBERS.
 2. STRUCTURAL PLYWOOD TO IS TO BE EXTERIOR GRADE, EXPOSURE 1 PER APA DOC PS-1.

DETAIL 1
 $\frac{1}{8}" = 1'-0"$

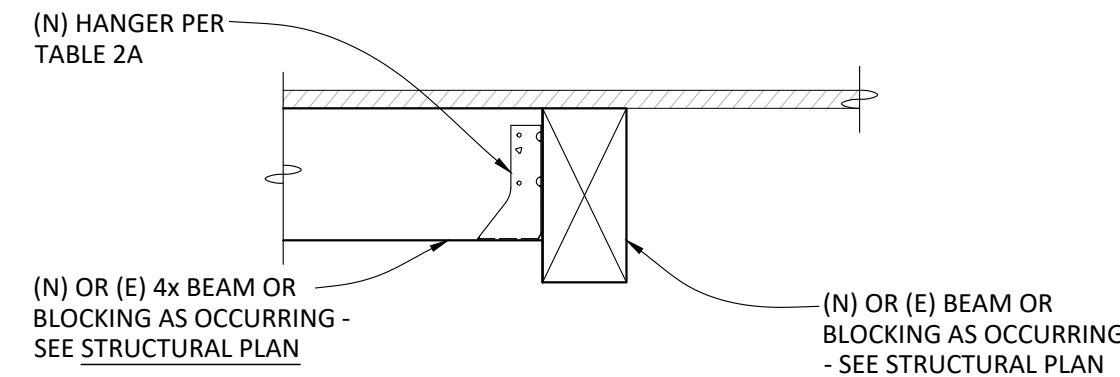


TABLE 2A

| BRG SECTION | HANGER |
|-------------|----------------|
| 4x6, 4x8 | SIMPSON LUS46 |
| 4x10, 4x12 | SIMPSON LUS410 |
| 4x14 | SIMPSON LUS414 |

'A' CONDITION @ 4x FRAMING

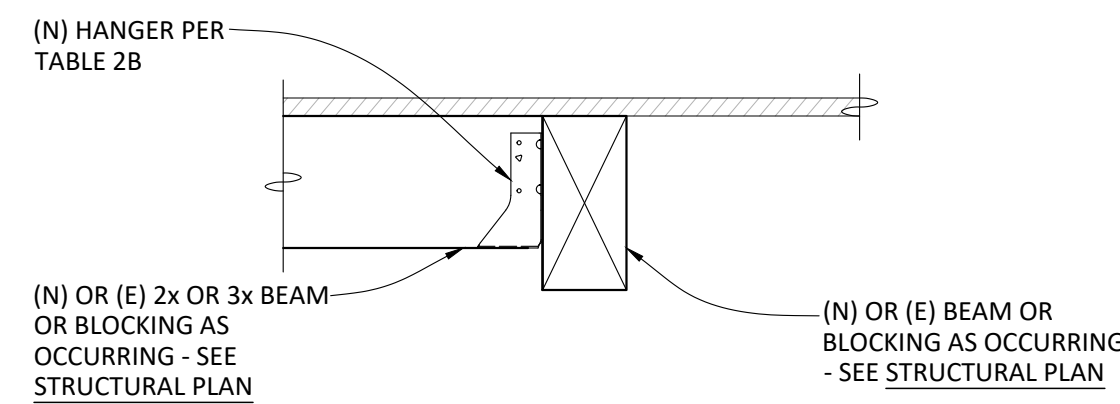
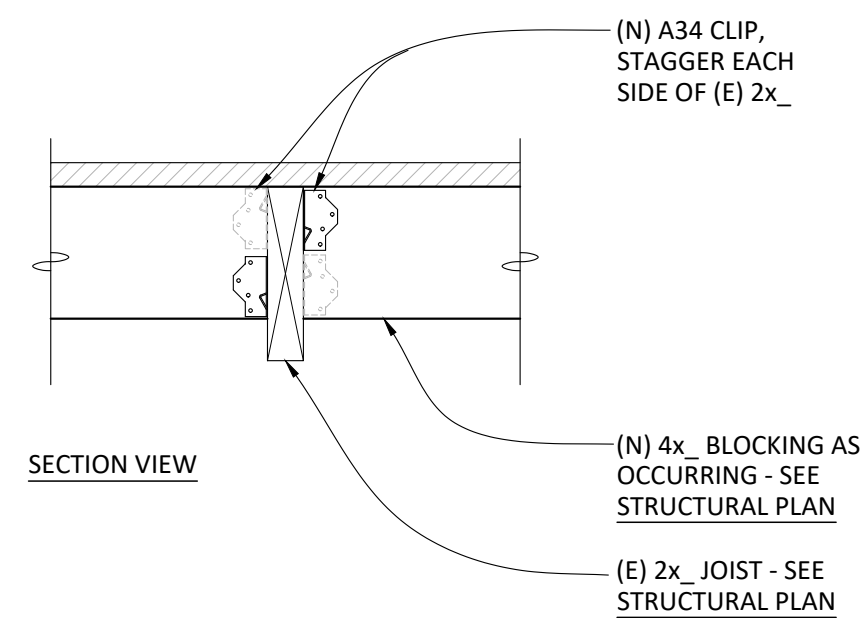
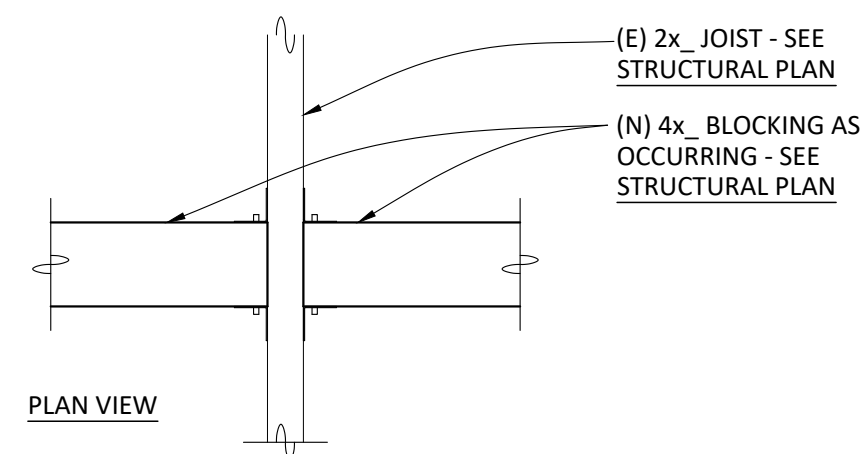


TABLE 2B

| BRG SECTION | HANGER |
|------------------|----------------|
| 2x6, 2x8 | SIMPSON LUS26 |
| 2x10, 2x12, 2x14 | SIMPSON LUS210 |
| 3x12 | SIMPSON LUS310 |

'B' CONDITION @ 2x & 3x FRAMING

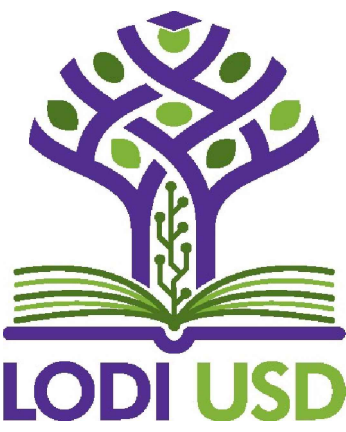
DETAIL 2
 $\frac{1}{8}" = 1'-0"$



THIS DETAIL IS TO BE USED WHERE NEW 4x_ MEMBERS ARE TO BE FRAMED INTO EXISTING JOIST

DETAIL 3
 $\frac{1}{8}" = 1'-0"$

AGENCY
APPROVAL:



HMC ARCHITECTS

3431004-000

2101 CAPITOL AVENUE, SUITE 100
SACRAMENTO, CA 95816
916 325 1100 / www.hmcarchitects.com

ISSUE

DESCRIPTION DATE

RW CONSULTING
Engineers Inc
1450 HARBOR BLVD SUITE F
WEST SACRAMENTO, CA 95691
916.716.6910



FACILITY:
LODI USD - PARKLANE ELEMENTARY SCHOOL
8405 TAM O'SHANTER DRIVE
STOCKTON, CA 95210

PROJECT:
HVAC MODERNIZATION

SHEET NAME:

DETAILS

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

SHEET:

S4.01

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS, AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. COORDINATE EXACT SIZE AND ROUTING OF DUCTWORK WITH ARCHITECTURAL PLANS, STRUCTURE, AND EQUIPMENT PRIOR TO COMMENCING WORK.
5. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES.
6. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DIFFUSER.
7. FLEXIBLE DUCTWORK CONNECTIONS TO CEILING DIFFUSERS ARE LIMITED TO 5' MAXIMUM LENGTH.
8. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING, ETC. ARE NEW UNLESS SHOWN OTHERWISE. (E) DUCTWORK, PIPING, ETC. IS SHOWN LIGHT. SEE LEGEND.
9. (E) DUCTWORK AND ITEMS TO BE REMOVED ARE SHOWN CROSSED (X) OUT. SEE LEGEND. COORDINATE CLOSELY WITH (N) DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN.
10. WHERE INLET DUCT DIAMETER AND DIFFUSER NECK SIZE ARE THE SAME (I.E. 9" AND 9" OR 10" AND 10") CONTRACTOR SHALL OVSERIZE THE SHEET METAL PLENUM TO ACCOMMODATE THE ROUND DUCT CONNECTION.

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 ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

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

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION 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 AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

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

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

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

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

MP □ MD □ PP □ E □ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #043-13.

CALIFORNIA ENERGY CODE - ACCEPTANCE TESTING

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 TESTS 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 INSTALLING 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 TESTS HAVE BEEN COMPLETED.

HVAC ABBREVIATIONS

| SYMBOL | DESCRIPTION |
|-----------------|-------------------------------------------|
| ABC | ABOVE CEILING |
| ABV | ABOVE |
| ACC DR | ACCESS DOOR |
| ACC P | ACCESS PANEL |
| AFB | ABOVE FINISHED FLOOR |
| APD | AIR PRESSURE DROP, INCHES WATER COLUMN |
| ATV | ACOUSTIC TURNING VANE |
| BD | BALANCE DAMPER |
| BDD | BACK DRAFT DAMPER |
| BHP | BRAKE HORSE POWER |
| BTUH | BRITISH THERMAL UNITS PER HOUR |
| CAP | CAPACITY |
| CD | CONDENSATE DRAIN |
| CEF | CEILING EXHAUST FAN |
| CFM | CUBIC FEET OF AIR FLOW PER MINUTE |
| CLG | CEILING |
| CONC | CONCRETE |
| COND | CONDENSER |
| CONT | CONTINUATION |
| D | DAMPER |
| DIA | DIAMETER |
| DL | DOOR LOUVER |
| DN | DOWN |
| DB | DRY BULB |
| EA | EXHAUST AIR |
| EAD | EXHAUST AIR DAMPER |
| EDB | ENTERING DRY BULB |
| EF | EXHAUST FAN |
| ELEC | ELECTRIC/ELECTRICAL |
| ENT | ENTERING |
| EQUIP | EQUIPMENT |
| ESP | EXTERNAL STATIC PRESSURE |
| EWB | ENTERING WET BULB |
| f | CUBIC FEET OF AIR FLOW PER MINUTE |
| F | DEGREES FAHRENHEIT |
| FA | FROM ABOVE |
| FB | FROM BELOW |
| FC | FLEXIBLE CONNECTION |
| FD | FIRE DAMPER |
| FLA | FULL LOAD AMPS |
| PPM | FEET PER MINUTE |
| FSD | FIRE AND SMOKE DAMPER |
| FT (') | FOOT OR FEET |
| FT ² | SQUARE FEET |
| GA | GAUGE |
| GALV | GALVANIZED |
| GI | GALVANIZED IRON |
| HOG | HEAVY DUTY GRILLE |
| HP | HORSE POWER |
| IN, (") | INCH |
| IN ² | SQUARE INCHES |
| LAT | LEAVING AIR TEMPERATURE |
| LBS | POUNDS |
| LDB | LEAVING DRY BULB |
| LRA | LOCKED ROTOR AMPS |
| LVR | LOUVER |
| LWB | LEAVING WET BULB |
| MAT | MIXED AIR TEMPERATURE |
| MAX | MAXIMUM |
| MBH | THOUSAND BTUs PER HOUR |
| MCA | MINIMUM CIRCUIT AMPACITY |
| MECH | MECHANICAL |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MOCP | MAXIMUM OVERCURRENT PROTECTION |
| OA | OUTSIDE AIR |
| OAD | OUTSIDE AIR DAMPER |
| OH | OVERHEAD |
| OV | OUTLET VELOCITY |
| PD | PRESSURE DROP |
| PSI (G) (A) | POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE) |
| RA | RETURN AIR |
| RAD | RETURN AIR DAMPER |
| REF | ROOF EXHAUST FAN |
| RPM | REVOLUTIONS PER MINUTE |
| RLA | RATED LOAD AMPS |
| SA | SUPPLY AIR |
| SEER | SEASONAL ENERGY EFFICIENCY RATING |
| SF | SUPPLY FAN |
| SM | SHEET METAL |
| SP | STATIC PRESSURE |
| SPD | STATIC PRESSURE DROP |
| SQ FT | SQUARE FEET |
| SQ IN | SQUARE INCHES |
| SS | STAINLESS STEEL |
| STRUC | STRUCTURAL |
| TA | TO ABOVE |
| TB | TO BELOW |
| TEMP | TEMPERATURE |
| TP | TOTAL PRESSURE |
| TSP | TOTAL STATIC PRESSURE |
| TYP | TYPICAL |
| UON | UNLESS OTHERWISE NOTED |
| VD | VOLUME DAMPER |
| W | WATTS |
| WB | WET BULB |
| WMS | WIRE MESH SCREEN |
| WT | WEIGHT |

SYMBOLS LEGEND

| SYMBOL | ABBREVIATION | DESCRIPTION |
|--------|--------------|--------------------------|
| | --- | BALL VALVE |
| | --- | BOTTOM CONNECTION |
| | BPT | BYPASS TIMER |
| | CBV | CALIBRATED BALANCE VALVE |
| | DS | DYNAMIC SENSOR |
| | --- | ECCENTRIC REDUCER |
| | EJ | EXPANSION JOINT |
| | FD | FIRE DAMPER |
| | FS | FIRE/SMOKE DAMPER |
| | --- | FLEXIBLE CONNECTOR |
| | --- | FLOW ARROW |
| | H | HUMIDISTAT |
| | --- | LIMIT OF DEMOLITION |
| | --- | PIPE BREAK |
| | --- | PIPE CAP |
| | --- | PIPE DOWN |
| | --- | PIPE UP |
| | --- | POINT OF CONNECTION |
| | --- | REDUCER |
| | SD | SMOKE DAMPER |
| | SKD | SMOKE DETECTOR |
| | TS | TEMPERATURE SENSOR |
| | T | THERMOSTAT |

DUCT LEGEND

| SINGLE LINE SYMBOL | DOUBLE LINE SYMBOL | DESCRIPTION |
|--------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | RECTANGULAR DUCT: WIDTH x DEPTH (PLAN VIEW) DEPTH x WIDTH (SECTION VIEW) |
| | | ACOUSTICALLY LINED RECTANGULAR DUCT - DIMENSIONS ARE OUTSIDE |
| | | MANUAL AIR DAMPER |
| | | RISE OR DROP DUCT IN DIRECTION OF AIR FLOW |
| | | RECTANGULAR TO RECTANGULAR TRANSITION OR ROUND TO ROUND TRANSITION, MAX. SLOPE OF 1:3 |
| | | RECTANGULAR TO ROUND TRANSITION, MAX. SLOPE OF 1:3 |
| | | ELBOW, RECTANGULAR, SMOOTH RADIUS, WITHOUT TURNING VANES |
| | | SQUARE/RECTANGULAR DUCT ELBOW WITH TURNING VANES |
| | | CONVERGING OR DIVERGING TEE, 45° ENTRY, RECTANGULAR MAIN AND BRANCH; WHEN REDUCING MAIN, SIDE OF TAKE OFF OR ENTRY BRANCH TO BE FLAT, OTHER SIDES MAX. SLOPE OF 1:3 |
| | | ROUND DUCT TAKE OFF FROM RECTANGULAR VIA SMOOTH CONVERGING BELL MOUTH |
| | | RECTANGULAR DUCT TEE: MAD'S ON THE 2 BRANCHES, THROAT SIZED FOR EQUAL PRESSURE DROP |
| | | RECTANGULAR DUCT SPLIT MAD'S, THROAT SIZED FOR EQUAL PRESSURE DROP |
| | | FOR CONCEALED DUCT: DROP TO DIFFUSER SHALL BE FULL SIZE OF DIFFUSER NECK; FOR EXPOSED DUCT: DROP SHALL BE FULL SIZE OF OD DIFFUSER FRAME, FLANGE FOR MOUNTING DIFFUSER TURNED IN. AIR EXTRACTOR AND EQUALIZER GRID AT CONNECTION TO MAIN. |
| | | SUPPLY AIR, SUPPLY DROP/RISE |
| | | RETURN AIR, RETURN AIR DROP/RISE |
| | | EXHAUST AIR, EXHAUST AIR DROP/RISE |
| | | FLEXIBLE DUCT (ROUND) |

AGENCY APPROVAL:

REVIEWING AGENCIES
STAMP HERE

EDIT THIS FAMILY, AND
PLACE A PROJECT IMAGE
HERE. IT WILL UPDATE ALL
TITLEBLOCKS
AUTOMATICALLY.

HMC Architects

3431-004-000

3546 CONCOURS STREET
ONTARIO, CA 91764
909 989 9979 / www.hmcarchitects.com

ISSUE

DESCRIPTION

DATE

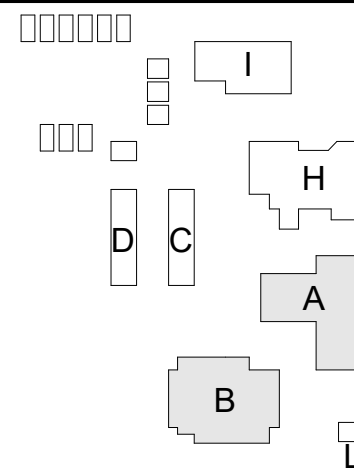
KEYNOTES

NOTES

capital
engineering
RANCHO CORDOVA, CALIFORNIA
XX - XXX/XXX
PM - DESIGN TEAM
230528.00
PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STYLLAND
M 33498
EXPIRES 9/30/24
MECHANICAL
STATE OF CALIFORNIA

KEY PLAN:



FACILITY:

8405 TAM O'SHANTER DR.
STOCKTON, CA 95210

PROJECT:
LODI USD PARKLANE ES HVAC REPLACEMENT

SHEET NAME:
MECHANICAL LEGEND AND NOTES

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

SHEET:

M0.01

C:\Users\lvogt\CAPSA\O\ouDrive - Capital\Documents\330628_Park Lane ES MZ_MP22_Central\1_Dwg\1@capital-engineering.com.rvt 9/20/2023 8:29:09 AM

| MULTI-ZONE UNIT SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--------------------------------------------|--------------------|----------------|------------------|--------------|-------------------|-------------------------|-------------|---------|----------------|-----|--------------|-----|----------|-----------------|-------|-----|-----------------|------------|-----------------|-----------------|---------------|---------------------------|
| EQUIPMENT TAG | "CME" CUSTOM MECHANICAL EQUIPMENT MODEL NO | QTY BUILDING ZONES | QTY UNIT ZONES | SUPPLY AIR (CFM) | MIN OA (CFM) | DX COOLING | | | | TOTAL GAS LOAD | | | | | ELECTRICAL DATA | | MCA | ELECTRICAL DATA | SEER (EER) | MOUNTING DETAIL | CONTROL DIAGRAM | OPER WT (LBS) | NOTES |
| | | | | | | SENSIBLE CAPACITY | TOTAL COOLING CAP (MBH) | EAT EDB (F) | EWB (F) | INPUT (MBH) | | OUTPUT (MBH) | | AFUE (%) | VOLT | PHASE | | MOCP (AMPS) | | | | | |
| MZ-1 | PMZ3-20GG41-XX | 5 | 4 | 6120 | 918 | 143.5 | 200.7 | 80 | 67 | 228 | 352 | 220 | 340 | 96 | 460 | 3 | 50 | 60 | | 1/M5.03 | M6.04 | 4181 | 1, 2, 3, 4, 5, 6, 7, 8, 9 |
| MZ-2 | PMZ3-25GG41-XX | 6 | 5 | 6630 | 997 | 186.4 | 251.5 | 80 | 67 | 285 | 440 | 275 | 425 | 96 | 460 | 3 | 58 | 60 | | 1/M5.03 | M6.05 | 5661 | 1, 2, 3, 4, 5, 6, 7, 8, 9 |
| MZ-3 | PMZ3-25GG41-XX | 5 | 5 | 6130 | 922 | 172.3 | 230.2 | 80 | 67 | 285 | 440 | 275 | 425 | 96 | 460 | 3 | 55 | 60 | | 1/M5.03 | M6.06 | 5584 | 1, 2, 3, 4, 5, 6, 7, 8, 9 |

1. PROVIDE CONDENSING UNITS WITH OPTIMAL START TO PREVENT ALL CONDENSERS FROM STARTING SIMULTANEOUSLY.
2. (E) ROOF CURBS SHALL BE RE-USED.
3. ALL UNITS SHALL BE CONSTRUCTED FROM PRE-PAINTED MATERIAL. COLOR SHALL BE PER ARCHITECT.
4. UNITS SHALL BE CUSTOM BUILT/FITTED TO MATE DIRECTLY TO EXISTING ZONE DUCT AND RETURN DUCT CONNECTIONS.
5. UNIT OPERATING WEIGHT INCLUDES FURNACES AND CONDENSING UNITS.
6. PROVIDE WITH MANUFACTURER'S RELIEF FAN. FAN TO PROVIDE POWERED RELIEF DURING ECONOMIZER OPERATION. FAN, CONTROLS, AND WIRING SHALL BE BY UNIT MANUFACTURER.
7. MCA AND MOCP INCLUDE INTERIOR FURNACE UNITS AND EXTERIOR CONDENSING UNITS. THERE IS A SINGLE POINT OF CONNECTION.
8. PROVIDE UNITS WITH 2" THICK MERV 13 FILTERS.
9. DUCT SMOKE DETECTOR IS REQUIRED IN THE SUPPLY DUCTS, (ONE PER FURNACE ACCORDING TO 2022 CMC 608. DETECTOR TO SHUT DOWN UNIT UPON DETECTION OF PARTICLES OF COMBUSION AND SIGNAL THE FIRE ALARM SYSTEM.

| FURNACE WITH DX COIL SCHEDULE | | | | | | | | | | | | | | | | | |
|-------------------------------|---------------|-----------|-------------------|------|--------------|-------------|------------------------|------------------|-------------|-----------|--------------|-----------|----------|-----------------|------|-------|--|
| EQUIPMENT TAG | BUILDING ZONE | UNIT ZONE | "LENNOX" MODEL NO | CFM | MIN OA (CFM) | ESP (IN WG) | "LENNOX" COIL MODEL NO | COIL APD (IN WG) | GAS HEATING | | | | | ELECTRICAL DATA | | MOTES | |
| | | | | | | | | | INPUT (MBH) | | OUTPUT (MBH) | | AFUE (%) | FAN HP | VOLT | | |
| | | | | | | | | | LOW FIRE | HIGH FIRE | LOW FIRE | HIGH FIRE | | | | | |
| F-1-1 | 1 & 2 | 1 | EL296UH090XV60C | 1615 | 242 | 0 | 76L14 | 0.0 | 57 | 88 | 55 | 85 | 96 | 1 | 120 | 1,2 | |
| F-1-2 | 4 | 2 | EL296UH090XV60C | 1015 | 152 | 0 | 76L14 | 0.0 | 57 | 88 | 55 | 85 | 96 | 1 | 120 | 1,3 | |
| F-1-3 | 3 | 3 | EL296UH090XV60C | 1750 | 263 | 0 | 76L14 | 0.0 | 57 | 88 | 55 | 85 | 96 | 1 | 120 | 1,3 | |
| F-1-4 | 5 | 4 | EL296UH090XV60C | 1740 | 261 | 0 | 76L14 | 0.0 | 57 | 88 | 55 | 85 | 96 | 1 | 120 | 1,3 | |
| F-2-1 | 4 | 1 | EL296UH090XV60C | 1250 | 188 | 0 | 76L14 | 0.0 | 57 | 88 | 55 | 85 | 96 | 1 | 120 | 1,3 | |
| F-2-3 | 5 & 6 | 3 | EL296UH090XV60C | 1250 | 188 | 0 | 76L14 | 0.0 | 57 | 88 | 55 | 85 | 96 | 1 | 120 | 1,2 | |
| F-2-4 | 2 | 4 | EL296UH090XV60C | 1630 | 245 | 0 | 76L14 | 0.0 | 57 | 88 | 55 | 85 | 96 | 1 | 120 | 1,3 | |
| F-2-5 | 3 | 5 | EL296UH090XV60C | 1250 | 188 | 0 | 76L14 | 0.0 | 57 | 88 | 55 | 85 | 96 | 1 | 120 | 1,3 | |
| F-2-6 | 1 | 6 | EL296UH090XV60C | 1250 | 188 | 0 | 76L14 | 0.0 | 57 | 88 | 55 | 85 | 96 | 1 | 120 | 1,3 | |
| F-3-1 | 2 | 1 | EL296UH090XV60C | 1250 | 180 | 0 | 76L14 | 0.0 | 57 | 88 | 55 | 85 | 96 | 1 | 120 | 1,3 | |
| F-3-3 | 1 | 3 | EL296UH090XV60C | 1250 | 188 | 0 | 76L14 | 0.0 | 57 | 88 | 55 | 85 | 96 | 1 | 120 | 1,3 | |
| F-3-4 | 4 | 4 | EL296UH090XV60C | 1130 | 170 | 0 | 76L14 | 0.0 | 57 | 88 | 55 | 85 | 96 | 1 | 120 | 1,3 | |
| F-3-5 | 3 | 5 | EL296UH090XV60C | 1250 | 188 | 0 | 76L14 | 0.0 | 57 | 88 | 55 | 85 | 96 | 1 | 120 | 1,3 | |
| F-3-6 | 5 | 6 | EL296UH090XV60C | 1250 | 188 | 0 | 76L14 | 0.0 | 57 | 88 | 55 | 85 | 96 | 1 | 120 | 1,2 | |

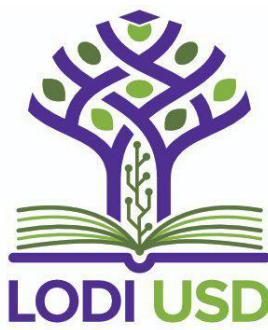
1. FURNACE IS AN INTEGRAL PART OF THE MULTI-ZONE UNIT.
2. INSTALL DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT FOR AUTOMATIC SHUTDOWN OF HVAC SYSTEM UPON SENSING SMOKE. PROVIDED, POWERED, AND INTERLOCKED WITH FIRE ALARM SYSTEM BY DIV. 26, INSTALLED AND CONNECTED TO FURNACE BY DIV. 23.
3. AUTOMATIC SHUTDOWN OF HVAC SYSTEM IS NOT REQUIRED PER 2019 CMC, SECTION 608.1, EXCEPTION 2: ALL ROOMS HAVE DIRECT EXIT TO OUTSIDE WITH TRAVEL DISTANCE LESS THAN 100 FEET.

| CONDENSING UNIT - AIR COOLED SCHEDULE | | | | | | | | | | | | | | | | | |
|---------------------------------------|-------------------|-----------|----------|-----------------------------|--------------------------|-------------------|---------|------|-------|--------------------|------------|-----|------|-----------------|-----------------|---------------|---------------------|
| EQUIPMENT TAG | "LENNOX" MODEL NO | UNIT ZONE | EVAP CFM | SENSIBLE COOLING CAP. (MBH) | TOTAL COOLING CAP. (MBH) | EVAP. EDB EWB (F) | | VOLT | PHASE | CONDENSE R FAN FLA | COMPRESSOR | | MCA | MOUNTING DETAIL | CONTROL DIAGRAM | OPER WT (LBS) | REMARKS |
| | | | | | | EDB (F) | EWB (F) | | | | LRA | RLA | | | | | |
| CU-1-1 | ML14XC1-060-463 | 1 | 4550 | 0 | 0 | 80 | 67 | 460 | 3 | 1.0 | 60 | 7.8 | 10.7 | 2/M5.03 | M6.04 | 267 | 1, 3, 4, 5, 6, 7, 9 |
| CU-1-2 | ML14XC1-036-463 | 2 | 3160 | 0 | 0 | 80 | 67 | 460 | 3 | 0.6 | 38 | 5.8 | 7.8 | 4/M5.03 | M6.04 | 190 | 2, 3, 4, 5, 6, 7, 8 |
| CU-1-3 | ML14XC1-060-463 | 3 | 4550 | 0 | 0 | 80 | 67 | 460 | 3 | 1.0 | 60 | 7.8 | 10.7 | 2/M6.03 | M6.04 | 267 | 1, 3, 4, 5, 6, 7M 9 |
| CU-1-4 | ML14XC1-060-463 | 4 | 4550 | 0 | 0 | 80 | 67 | 460 | 3 | 1.0 | 60 | 7.8 | 10.8 | 4/M5.03 | M6.04 | 267 | 2, 3, 4, 5, 6, 7, 9 |
| CU-2-1 | ML14XC1-048-463 | 1 | 3600 | 0 | 0 | 80 | 67 | 460 | 3 | 0.9 | 60 | 7.1 | 8.5 | 4/M5.03 | M6.05 | 218 | 2, 3, 4, 5, 6, 7, 8 |
| CU-2-3 | ML14XC1-048-463 | 3 | 3600 | 0 | 0 | 80 | 67 | 460 | 3 | 0.9 | 60 | 7.1 | 8.5 | 4/M5.03 | M6.05 | 218 | 2, 3, 4, 5, 6, 7, 8 |
| CU-2-4 | ML14XC1-060-463 | 4 | 4550 | 0 | 0 | 80 | 67 | 460 | 3 | 1.0 | 60 | 7.8 | 10.7 | 2/M5.03 | M6.05 | 267 | 1, 3, 4, 5, 6, 7, 9 |
| CU-2-5 | ML14XC1-048-463 | 5 | 3600 | 0 | 0 | 80 | 67 | 460 | 3 | 0.9 | 60 | 7.1 | 8.5 | 4/M5.03 | M6.05 | 218 | 2, 3, 4, 5, 6, 7, 8 |
| CU-2-6 | ML14XC1-048-463 | 6 | 3600 | 0 | 0 | 80 | 67 | 460 | 3 | 0.9 | 60 | 7.1 | 8.5 | 2/M5.03 | M6.05 | 218 | 1, 3, 4, 5, 6, 7, 8 |
| CU-3-1 | ML14XC1-048-463 | 1 | 3600 | 0 | 0 | 80 | 67 | 460 | 3 | 0.9 | 60 | 7.1 | 8.5 | 4/M5.03 | M6.06 | 218 | 2, 3, 4, 5, 6, 7, 8 |
| CU-3-3 | ML14XC1-048-463 | 3 | 3600 | 0 | 0 | 80 | 67 | 460 | 3 | 0.9 | 60 | 7.1 | 8.5 | 4/M5.03 | M6.06 | 218 | 2, 3, 4, 5, 6, 7, 8 |
| CU-3-4 | ML14XC1-036-463 | 4 | 3160 | 0 | 0 | 80 | 67 | 460 | 3 | 0.6 | 38 | 5.8 | 7.8 | 2/M5.03 | M6.06 | 190 | 1, 3, 4, 5, 6, 7, 8 |
| CU-3-5 | ML14XC1-048-463 | 5 | 3600 | 0 | 0 | 80 | 67 | 460 | 3 | 0.9 | 60 | 7.1 | 8.5 | 4/M5.03 | M6.06 | 218 | 2, 3, 4, 5, 6, 7, 8 |
| CU-3-6 | ML14XC1-048-463 | 6 | 3600 | 0 | 0 | 80 | 67 | 460 | 3 | 0.9 | 60 | 7.1 | 8.5 | 2/M5.03 | M6.06 | 218 | 1, 3, 4, 5, 6, 7, 8 |

1. CONDENSING UNIT TO BE MOUNTED ON MULTI-ZONE UNIT CURB CAP/SUPPORT FRAME.
2. CONDENSING UNIT TO BE REMOTE MOUNTED ON THE ROOF. SEE PLAN FOR LOCATIONS.
3. CONDENSING UNIT INDIVIDUAL ELECTRICAL DATA IS INCLUDED IN THE MULTI-SONE UNIT MCA AND MOCP.
4. ELECTRICAL CONTRACTOR TO WIRE BETWEEN CONDENSER AND DISCONNECT LOCATED ON EXTERIOR OF MULTI-ZONE UNIT.
5. CONTROL CONTRACTOR TO WIRE BETWEEN CONDENSER AND CONTROL "J" BOX LOCATED ON EXTERIOR OF MULTI-ZONE UNIT.
6. REFRIGERANT: R-410a
7. CONTRACTOR TO RUN REFRIGERANT LINES BETWEEN CONDENSING UNIT AND STUBS AT MULTI-ZONE UNIT AND INSTALL SIGHT GLASS AT CONDENSING UNIT, PROVIDED BY UNIT MANUFACTURER.
8. REFRIGERANT PIPING SIZE: RL = 3/8", RS = 7/8"
9. REFRIGERANT PIPING SIZE: RL = 3/8", RS = 1-1/8".

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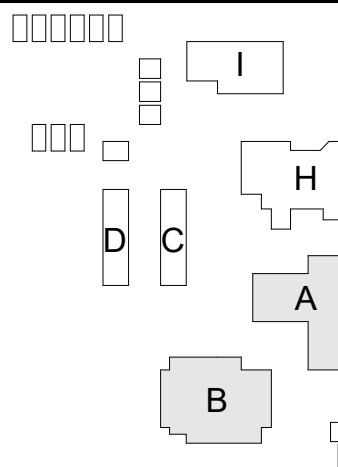
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KEYNOTES

NOTES



KEY PLAN:



FACILITY:

8405 TAM O'SHANTER DR.
STOCKTON, CA 95210

PROJECT:
LODI USD PARKLANE ES HVAC REPLACEMENT

SHEET NAME:
MECHANICAL SCHEDULES

CONSTRUCTION DOCUMENTS

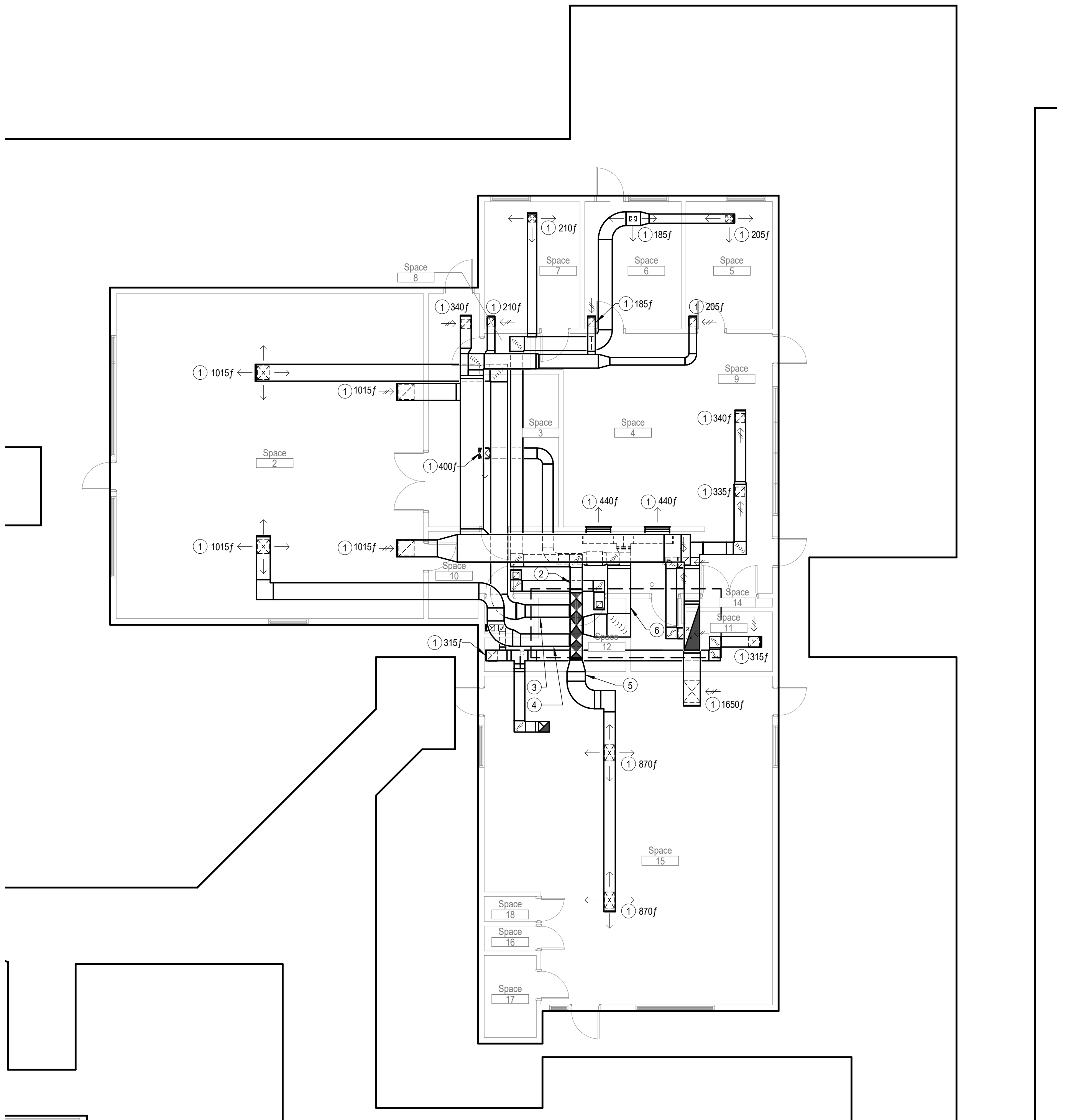
DATE: 10.03.2023

SHEET:

M0.02

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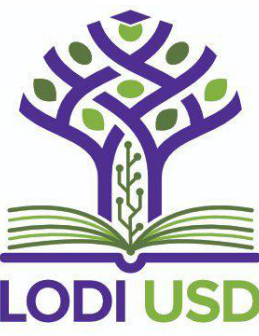


1 MECHANICAL FLOOR PLAN - ADMINISTRATION BLDG
M2.11A SCALE: 1/8" = 1'-0"

- KEYNOTES
- 1 SET DIFFUSER / GRILLE TO AIRFLOW NOTED.
 - 2 (E) BUILDING ZONE 1.
 - 3 (E) BUILDING ZONE 3.
 - 4 (E) BUILDING ZONE 5.
 - 5 (E) BUILDING ZONE 4.
 - 6 (E) BUILDING ZONE 2.

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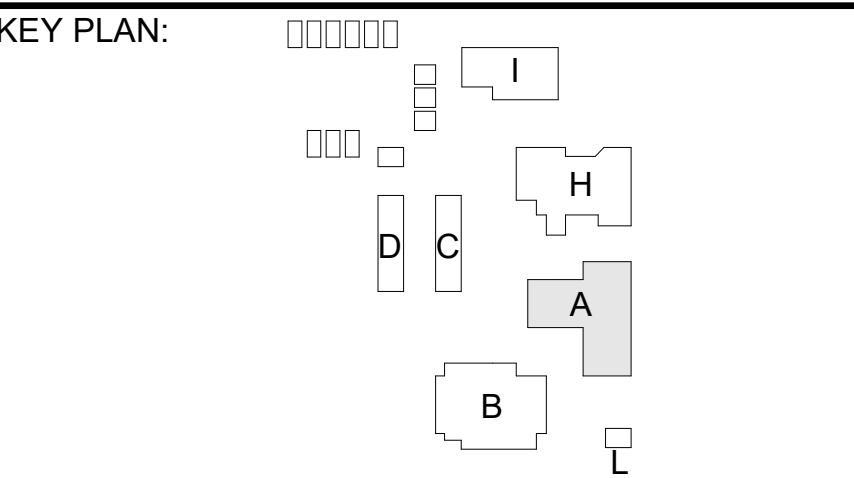
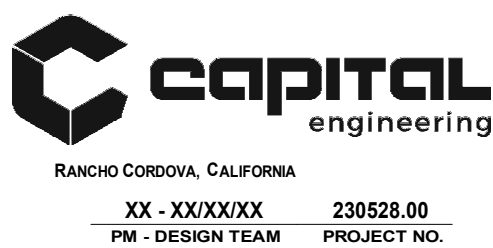


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KEYNOTES

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PROJECT:
LODI USD PARKLANE ES HVAC REPLACEMENT

SHEET NAME:
MECHANICAL FLOOR PLAN - ADMINISTRATION BLDG

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

SHEET:

M2.11A

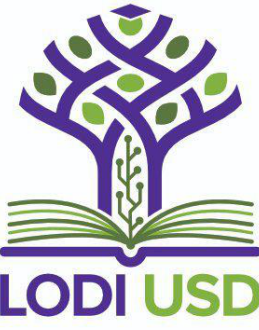
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VERIFY THE INFORMATION.

- KEYNOTES
- 1 SET DIFFUSER / GRILLE TO AIRFLOW NOTED.
 - 2 (E) BUILDING ZONE 2.
 - 3 (E) BUILDING ZONE 1.
 - 4 (E) BUILDING ZONE 3.
 - 5 (E) BUILDING ZONE 5.
 - 6 (E) BUILDING ZONE 4.
 - 7 (E) BUILDING ZONE 6.

AGENCY
APPROVAL:

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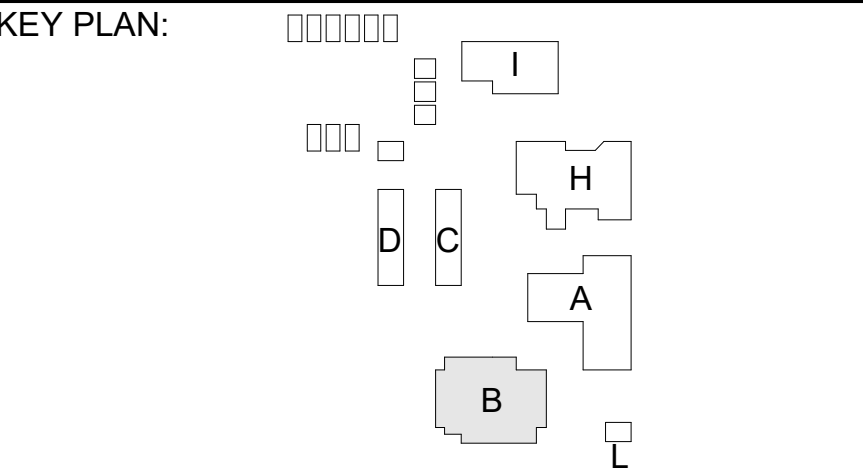
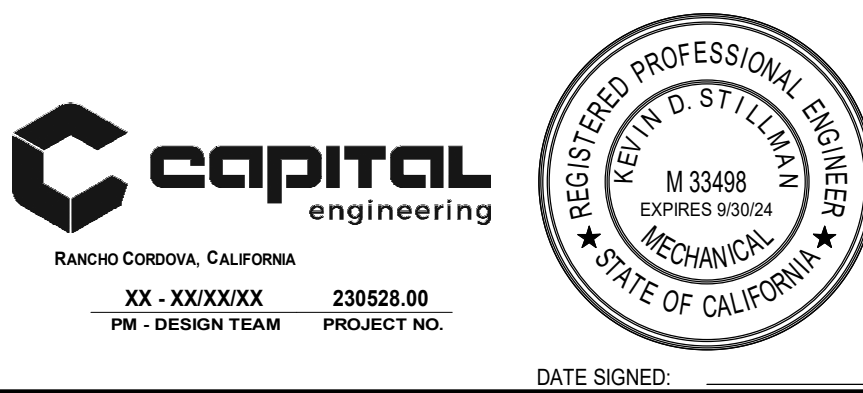
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| DESCRIPTION | DATE |

KEYNOTES

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PROJECT:
LODI USD PARKLANE ES HVAC REPLACEMENT

SHEET NAME:
MECHANICAL FLOOR PLAN - CLASSROOM BLDG

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

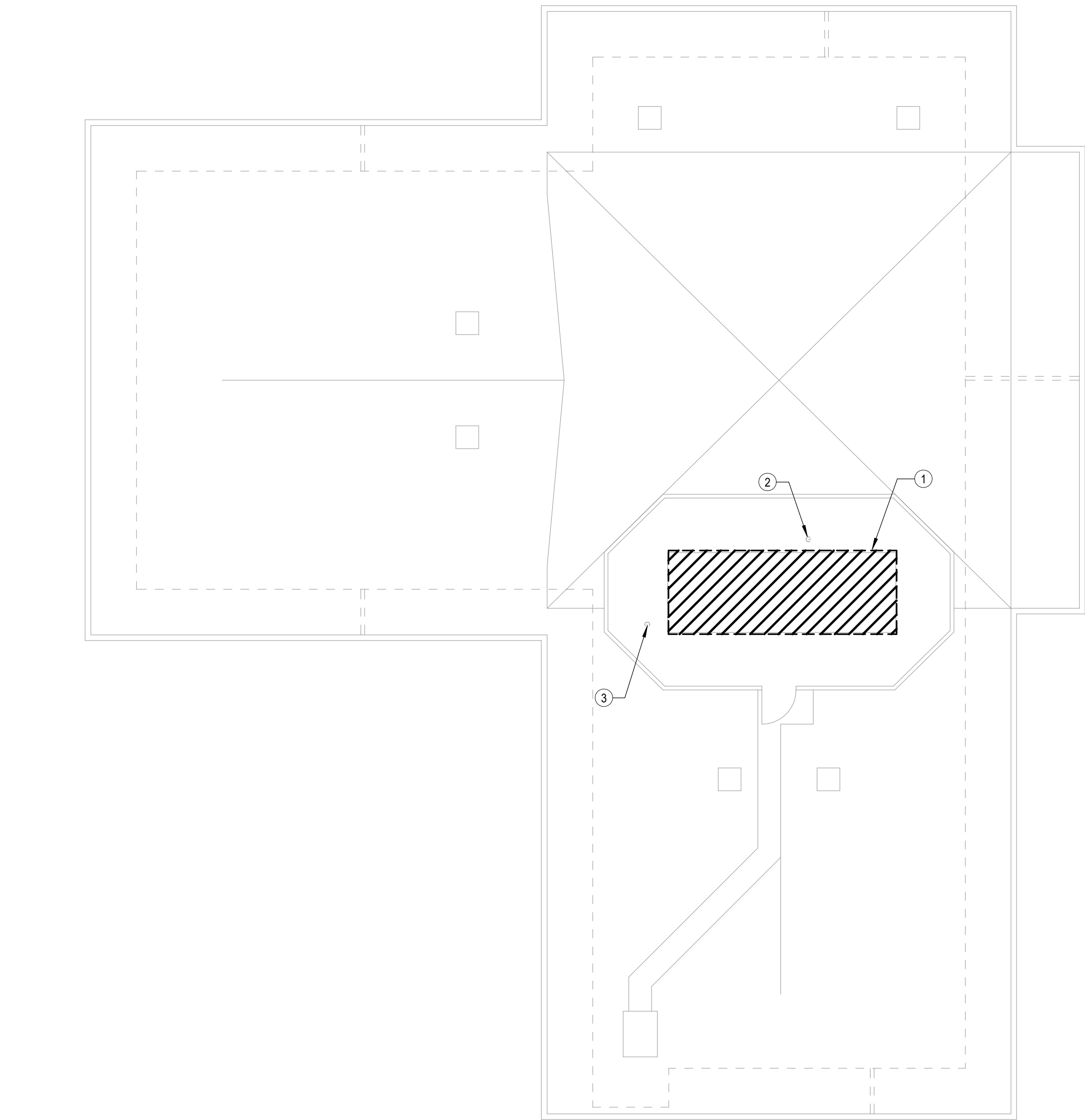
SHEET:

M2.11B

1 MECHANICAL FLOOR PLAN - CLASSROOM BLDG
M2.11B SCALE: 1/8" = 1'-0"

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1 MECHANICAL ROOF DEMOLITION PLAN - ADMINISTRATION BLDG
M4.10A SCALE: 1/8" = 1'-0"

KEYNOTES

- 1 MULTI-ZONE UNIT TO BE REMOVED, ROOF CURB TO REMAIN. GAS PIPING, CONDENSATE PIPING, AND CONTROLS WIRING TO REMAIN.
- 2 2" G THOURH ROOF TO REMAIN.
- 3 1-1/2" CD, CONNECT TO UNIT WITH MIN. 3" DEEP P-TRAP.

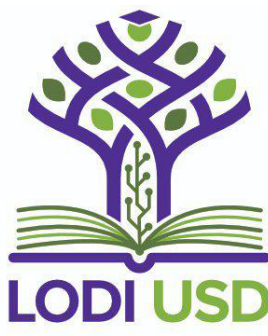
DEMOLITION NOTES

BEFORE START OF MZ-UNIT DEMOLITION, REMOVE ALL EXISTING EMCS CONTROL COMPONENTS INCLUDING SENSORS, MAIN PANELS, THERMOSTATS, AND UNIT CONTROLLERS. PACKAGE IN BOXES WITH DESCRIPTIONS OF CONTENTS AND DELIVER TO:

LODI UNIFIED SCHOOL DISTRICT
ATTN: RYAN LANCASTER, LEAD CONSTRUCTION PROJECTS SPECIALIST
880 N. GUILD AVE.
LODI, CALIFORNIA 95240

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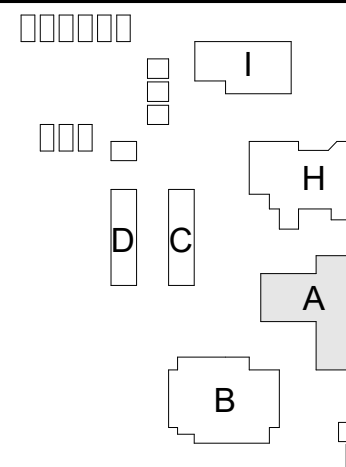
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KEYNOTES

NOTES



KEY PLAN:



FACILITY:

8405 TAM O'SHANTER DR.
STOCKTON, CA 95210

PROJECT:
LODI USD PARKLANE ES HVAC REPLACEMENT

SHEET NAME:
MECHANICAL ROOF DEMOLITION PLAN -
ADMINISTRATION BLDG

CONSTRUCTION DOCUMENTS

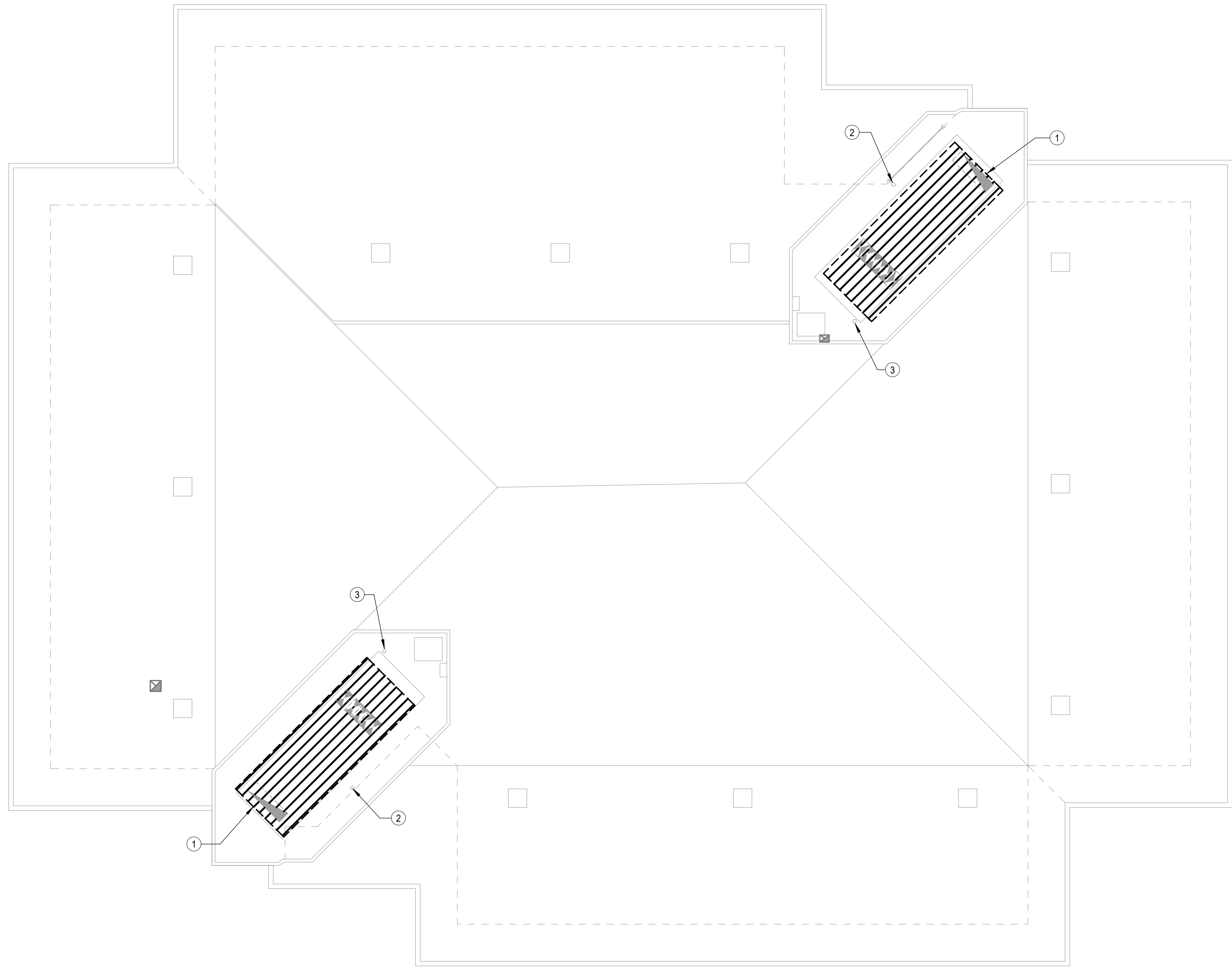
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KEYNOTES

- 1 MULTI-ZONE UNIT TO BE REMOVED. ROOF CURB TO REMAIN. GAS PIPING, CONDENSATE PIPING, AND CONTROLS WIRING TO REMAIN.
- 2 2" G THOURH ROOF TO REMAIN.
- 3 1-1/2" CD THROUGH ROOF TO REMAIN.

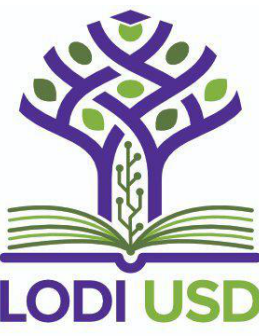
DEMOLITION NOTES

BEFORE START OF MZ UNIT DEMOLITION, REMOVE ALL EXISTING EMCS CONTROL COMPONENTS INCLUDING SENSORS, MAIN PANELS, THERMOSTATS, AND UNIT CONTROLLERS. PACKAGE IN BOXES WITH DESCRIPTIONS OF CONTENTS AND DELIVER TO:

LODI UNIFIED SCHOOL DISTRICT
ATTN: RYAN LANCASTER, LEAD CONSTRUCTION PROJECTS SPECIALIST
880 N. GUILD AVE.
LODI, CALIFORNIA 95240

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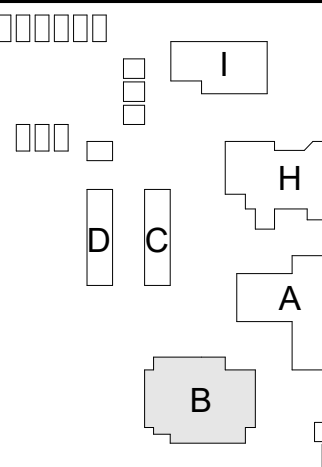
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KEYNOTES

NOTES



KEY PLAN:



FACILITY:

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PROJECT:
LODI USD PARKLANE ES HVAC REPLACEMENT

SHEET NAME:
MECHANICAL ROOF DEMOLITION PLAN -
CLASSROOM BLDG

CONSTRUCTION DOCUMENTS

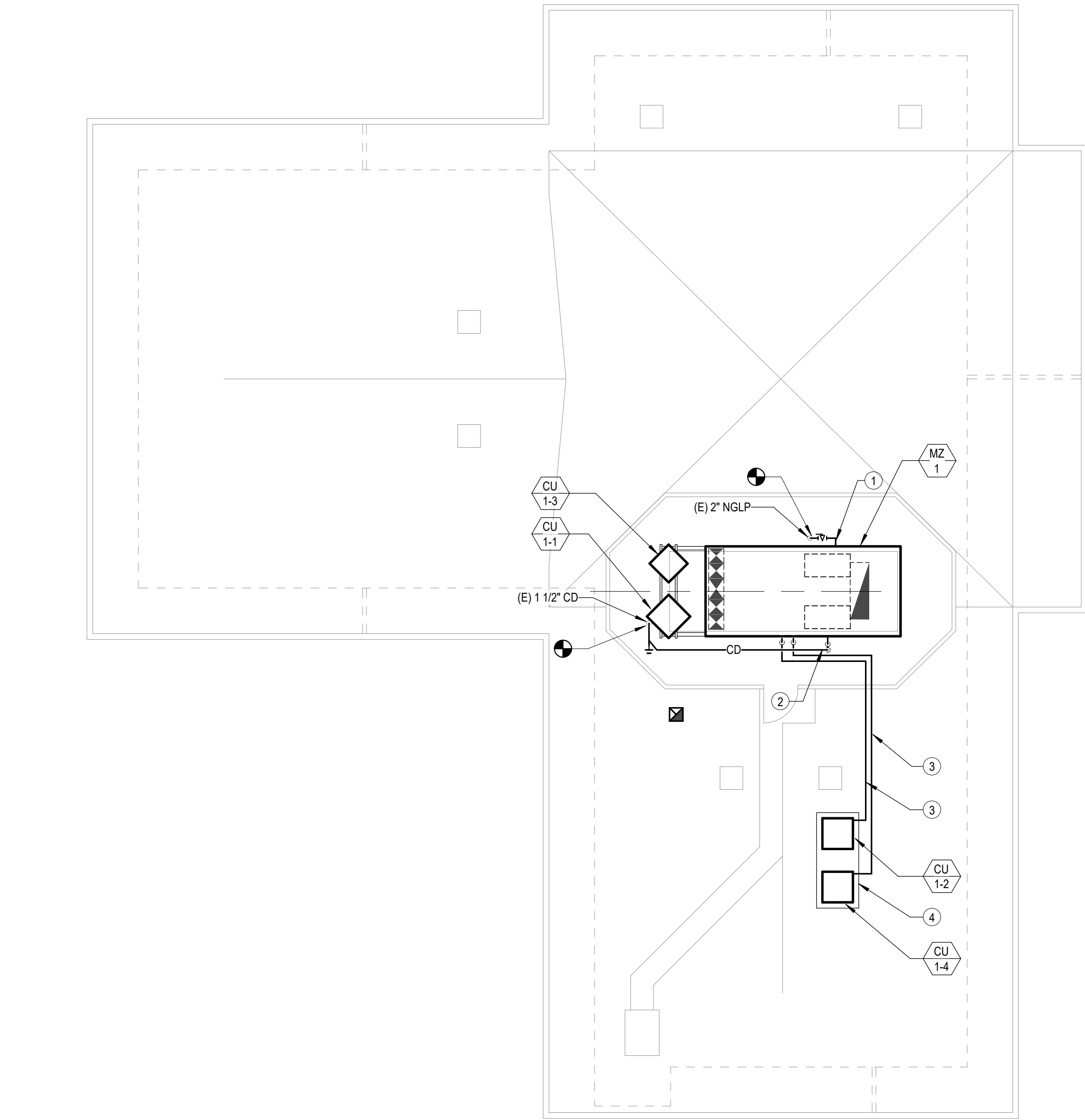
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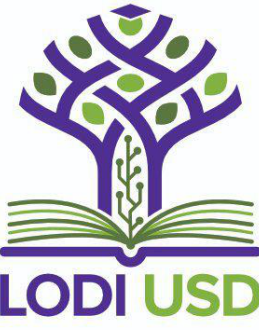
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M4.11A
MECHANICAL ROOF PLAN - ADMINISTRATION BLDG
SCALE: 1/8" = 1'-0"

KEYNOTES

- 2" O. CONNECT TO UNIT WITH SOV AND 6" DIRT LEG.
- 1-1/2" CD. CONNECT TO UNIT WITH MIN. 3" DEEP P-TRAP.
- RS & RL PIPING. SEE CONDENSING NIT SCHEDULE FOR SIZES. SEE DETAIL 5/M5.03 FOR SUPPORT.
- CONDENSING UNIT SUPPORT PLATFORM. SEE DETAIL 4/M5.03.

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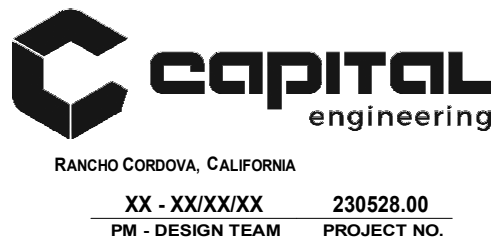


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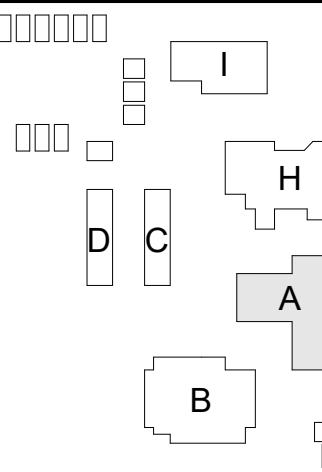
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KEYNOTES

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PROJECT:
LODI USD PARKLANE ES HVAC REPLACEMENT

SHEET NAME:
MECHANICAL ROOF PLAN - ADMINISTRATION BLDG

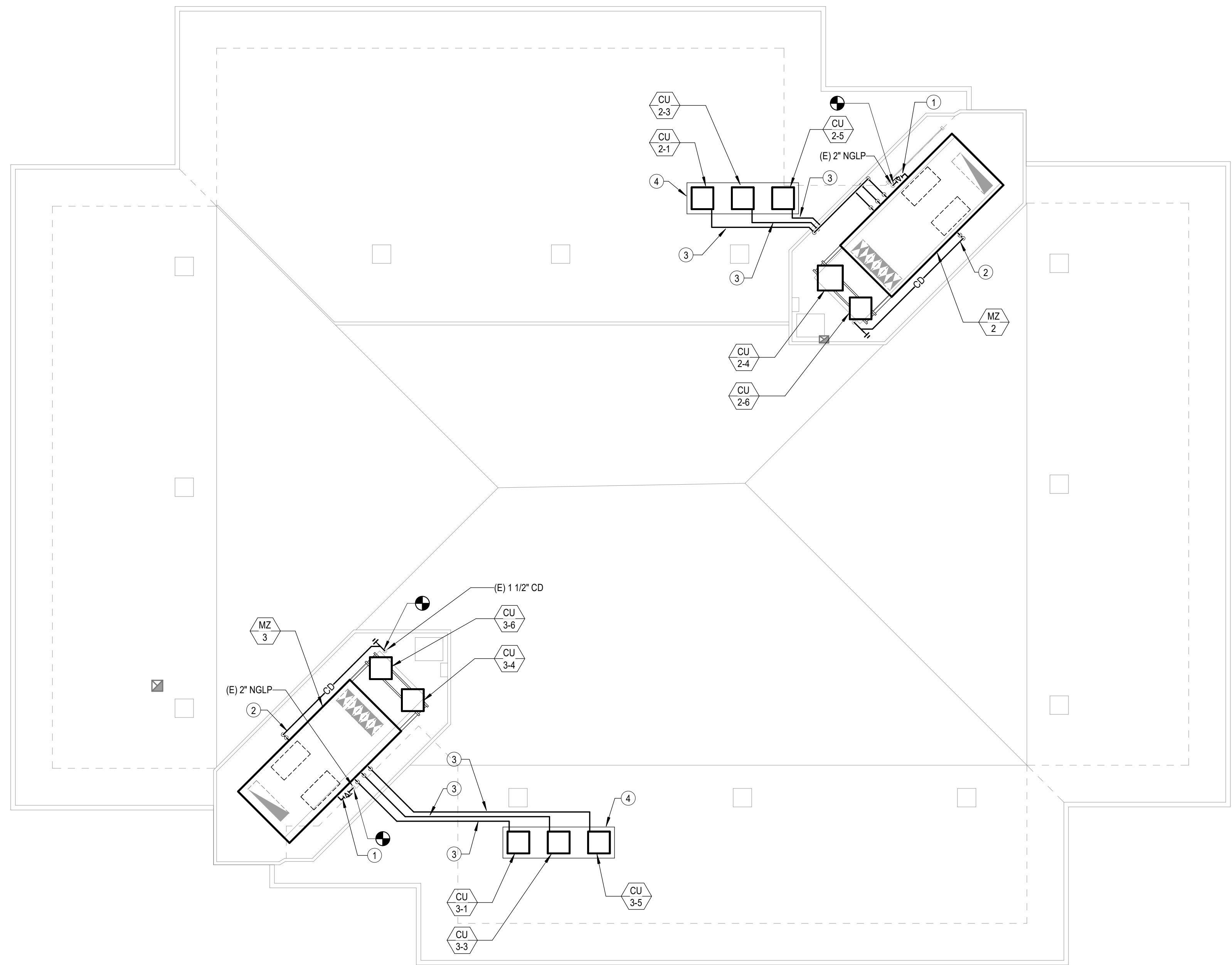
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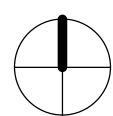
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M4.11B

MECHANICAL FLOOR PLAN - CLASSROOM BLDG

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

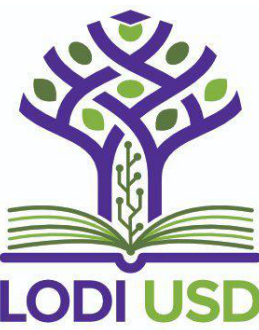


KEYNOTES

- 1 2" G. CONNECT TO UNIT WITH SOV AND 6" DIRT LEG.
- 2 1-1/2" CD. CONNECT TO UNIT WITH MIN. 3" DEEP P-TRAP.
- 3 RS & RL PIPING. SEE CONDENSING NIT SCHEDULE FOR SIZES. SEE DETAIL 5/M5.03 FOR SUPPORT.
- 4 CONDENSING UNIT SUPPORT PLATFORM. SEE DETAIL 4/M5.03.

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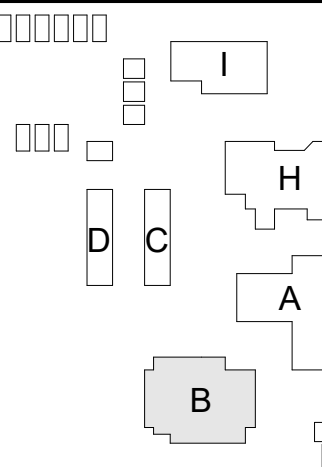
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KEYNOTES

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KEY PLAN:



FACILITY:

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PROJECT:
LODI USD PARKLANE ES HVAC REPLACEMENT

SHEET NAME:
MECHANICAL ROOF PLAN - CLASSROOM BLDG

CONSTRUCTION DOCUMENTS

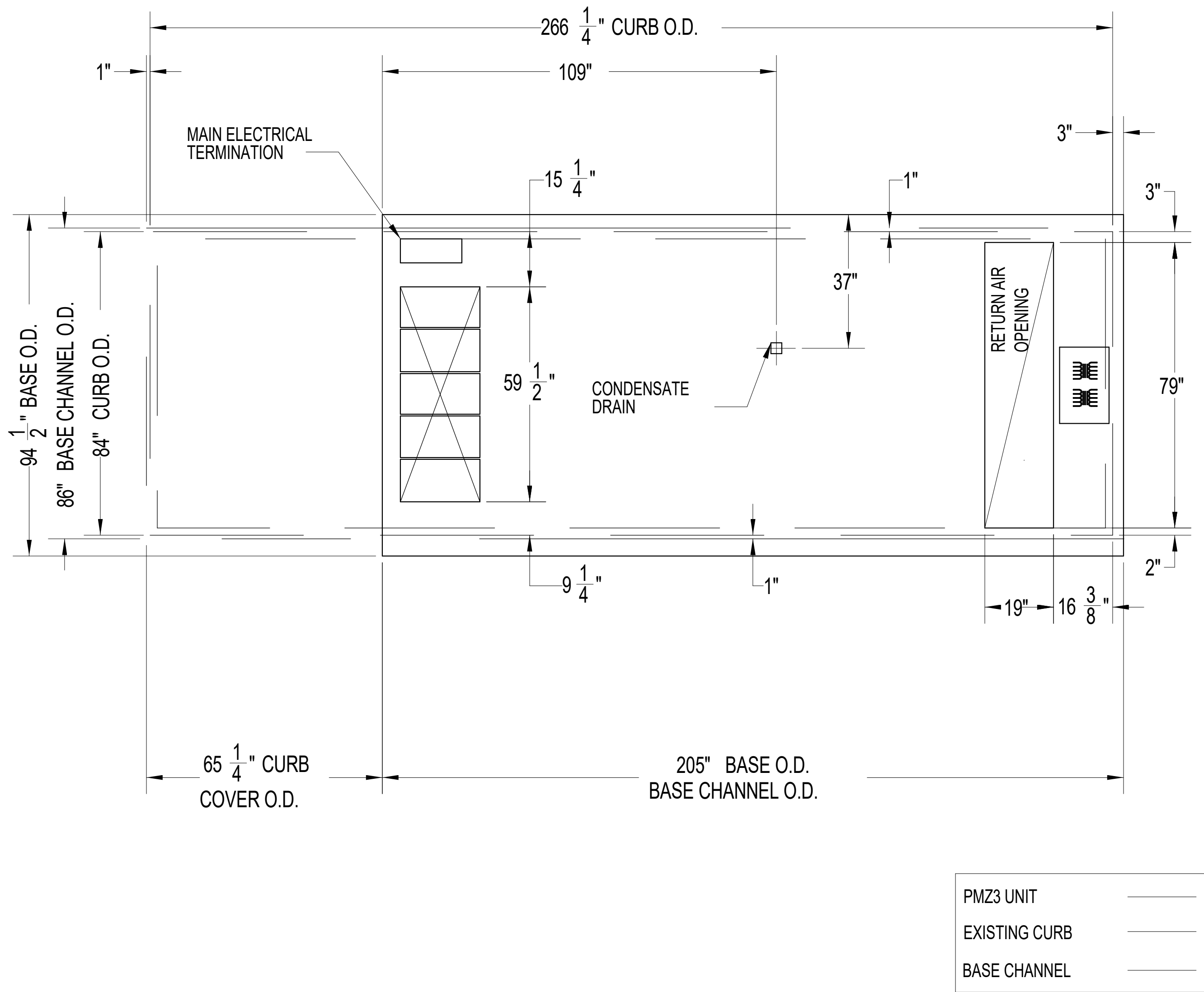
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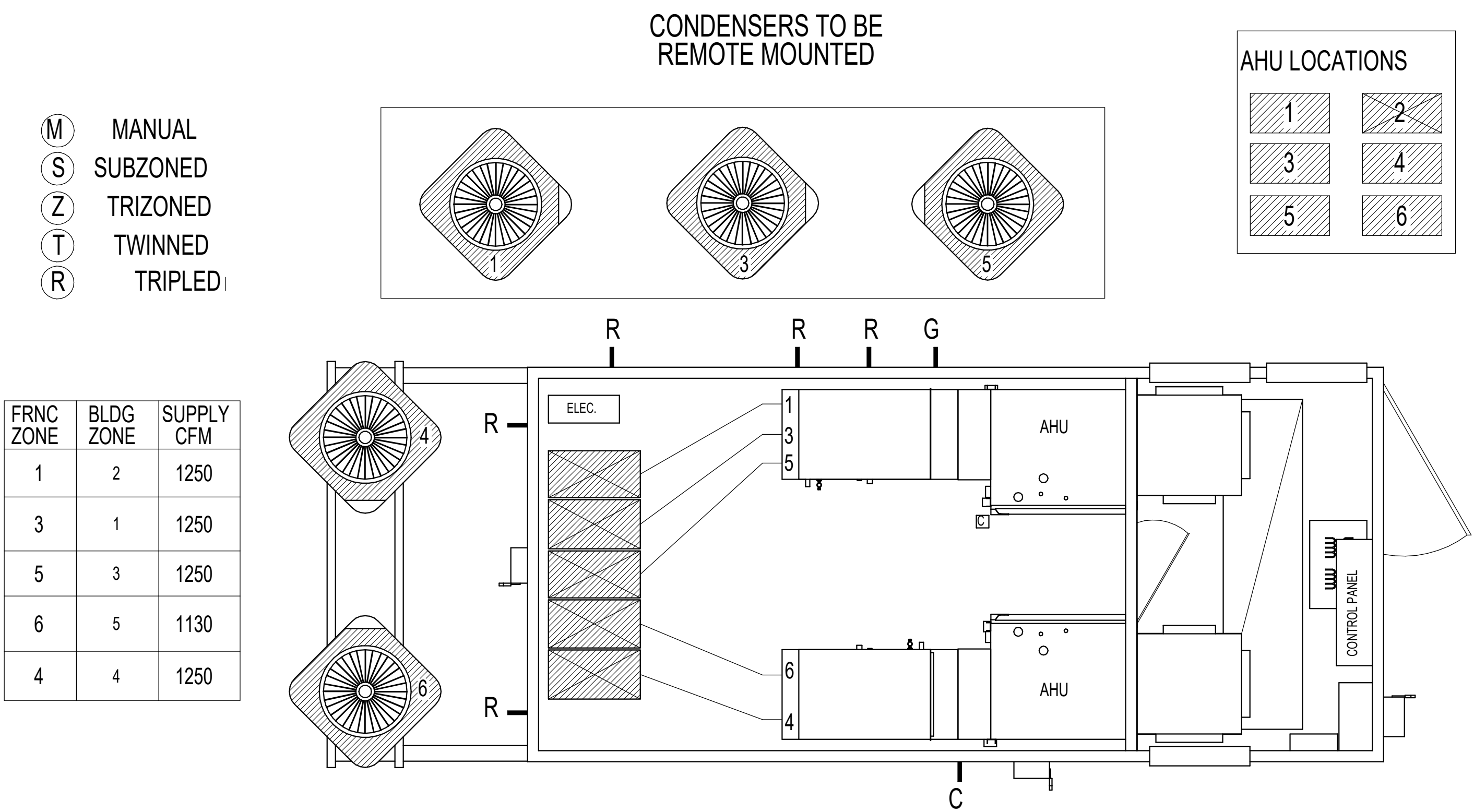
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2 MZ-3 CURB LAYOUT
SCALE: NONE



1 MZ-3 COMPONENTS PLAN VIEW
SCALE: NONE

AGENCY APPROVAL:

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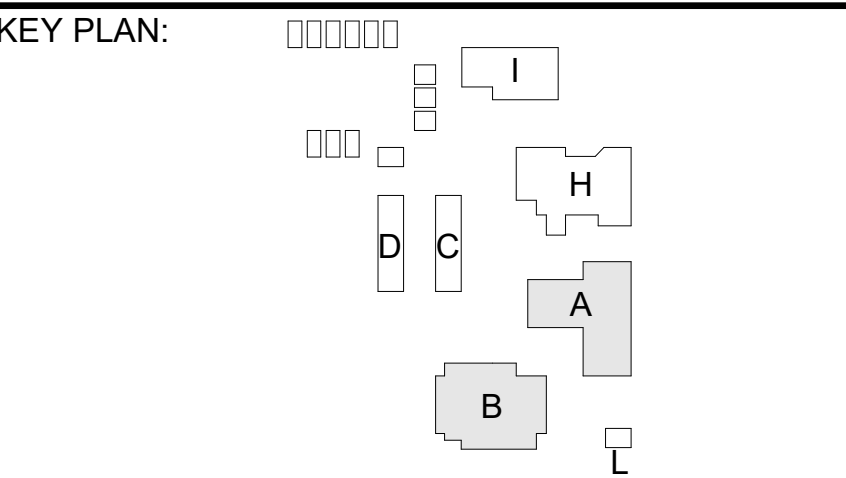
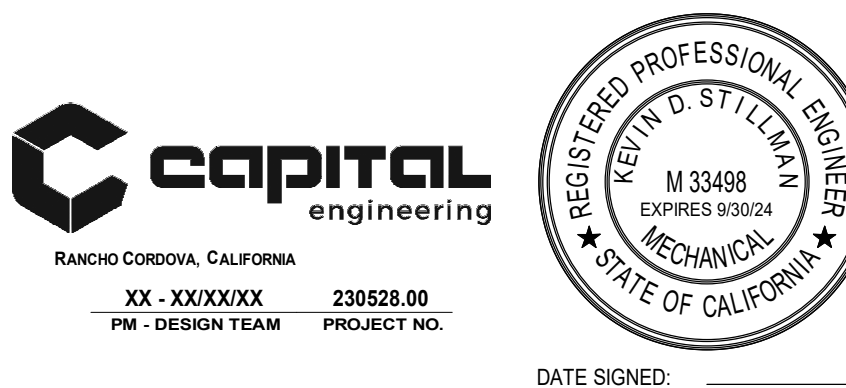
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| DESCRIPTION | DATE |

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PROJECT:

LODI USD PARKLANE ES HVAC REPLACEMENT

SHEET NAME:

MECHANICAL MULTIZONE COMPONENTS AND CURBS

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

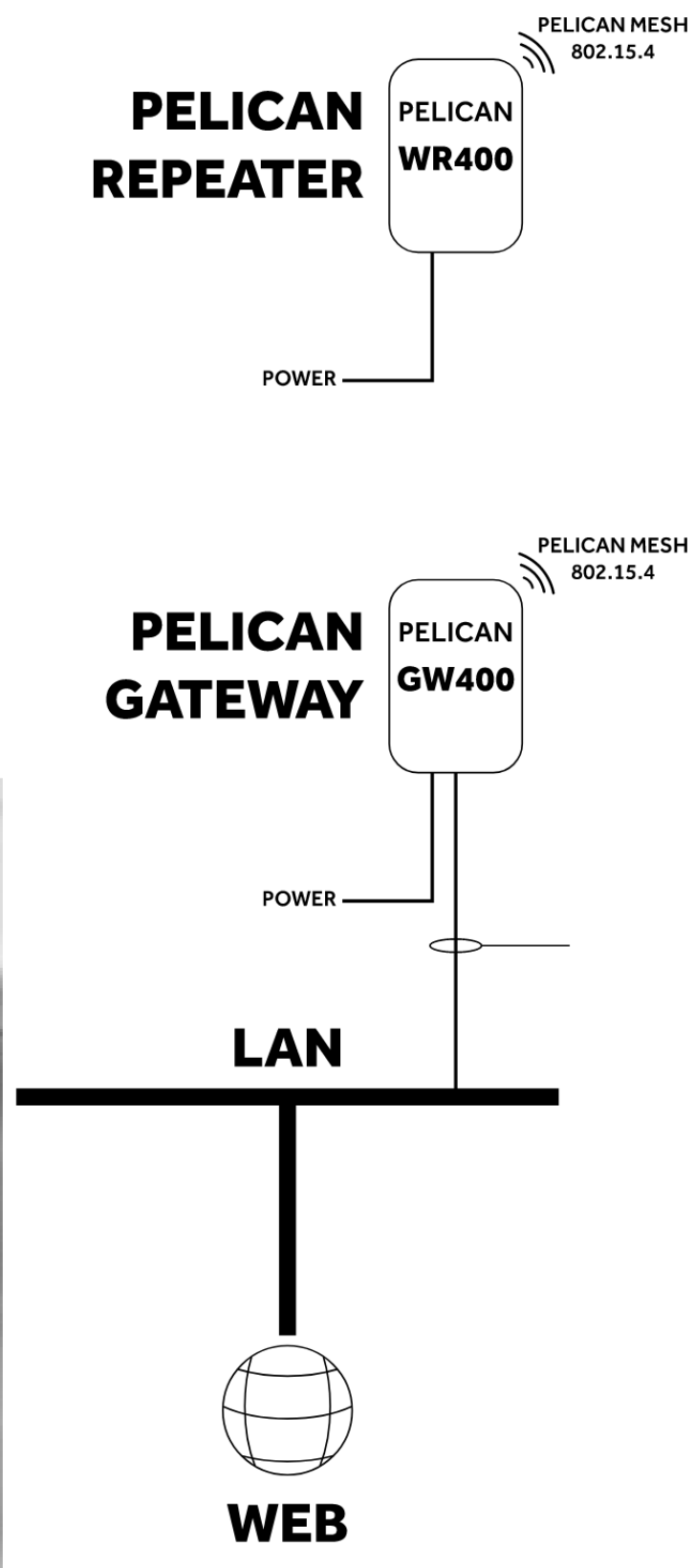
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NETWORK DEVICE PLACEMENT

NETWORK COMMUNICATION

COMMUNICATION SHALL BE ESTABLISHED ACROSS THE CAMPUS OVER PELICAN'S WIRELESS MESH NETWORK.

A SINGLE (1) PELICAN GATEWAY SHALL BE INSTALLED AT THE CAMPUS, UNLESS ADVISED OTHERWISE BY PELICAN TECHNICAL SUPPORT. GATEWAY SHALL BE INSTALLED CENTRAL TO CAMPUS LAYOUT AS SHOWN IN DIAGRAM TO THE RIGHT. CONTROLS CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH DISTRICT INTERNET TECHNOLOGIES DEPARTMENT TO BE PROVIDED AN AVAILABLE ETHERNET PORT AT REQUIRED LOCATION. CONTROLS CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH DISTRICT TO BE PROVIDED AN AVAILABLE AND SECURE 120VAC POWER CONNECTION. IF DISTRICT ALREADY HAS A GATEWAY INSTALLED AT CAMPUS, GATEWAY SHALL BE RE-LOCATED TO NEW LOCATION. DO NOT INSTALL GATEWAYS ON NETWORK RACKS OR NEXT TO OTHER NETWORK OR WIRELESS EQUIPMENT.

A MINIMUM OF (2) PELICAN REPEATERS SHALL BE INSTALLED AT THE CAMPUS, UNLESS ADVISES OTHERWISE BY PELICAN TECHNICAL SUPPORT. EACH REPEATER SHALL BE INSTALLED IN AN AREA AS SHOWN ON DIAGRAM TO THE RIGHT TO BRIDGE COMMUNICATION BETWEEN BUILDINGS. CONTROLS CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH DISTRICT TO BE PROVIDED AN AVAILABLE AND SECURE 120VAC POWER CONNECTION AT EACH REPEATER LOCATION. REPEATER SHALL BE INSTALLED IN A LOCATION WHERE SOMEONE CANNOT ACCESS. DO NOT INSTALL REPEATERS ON NETWORK RACKS OR NEXT TO OTHER NETWORK OR WIRELESS EQUIPMENT. ADDITIONAL REPEATERS SHALL BE INSTALLED, IF NEEDED, TO BRIDGE THE ENTIRE CAMPUS INTO THE PELICAN WIRELESS MESH NETWORK.

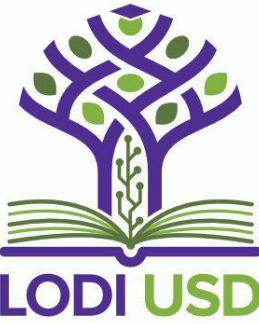
ALL OTHER PELICAN DEVICES SHALL BE WIRELESS REPEATERS IN THE WIRELESS NETWORK (NOT SHOWN IN NETWORK DIAGRAM TO THE RIGHT).

CONTROLS CONTRACTOR IS RESPONSIBLE TO WORK WITH PELICAN TECHNICAL SUPPORT TO ESTABLISH BEST PRACTICES WHEN IT COMES TO NETWORK ESTABLISHMENT.

| | | | |
|---------|-------|--------------------------|---|
| PELICAN | GW400 | PELICAN ETHERNET GATEWAY | 1 |
| PELICAN | WR400 | PELICAN REPEATER | 2 |

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DESCRIPTION

DATE

KEYNOTES

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RANCHO CORDOVA, CALIFORNIA

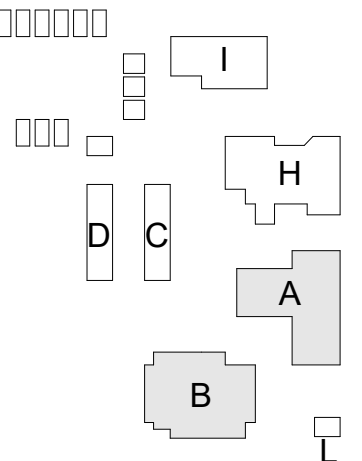
XX - XXXXXX 230528.00

PM - DESIGN TEAM PROJECT NO.



REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
EXPIRES 9/30/24
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: _____

KEY PLAN:

FACILITY:

8405 TAM O'SHANTER DR.
STOCKTON, CA 95210

PROJECT:

LODI USD PARKLANE ES HVAC REPLACEMENT

SHEET NAME:

MECHANICAL CONTROLS

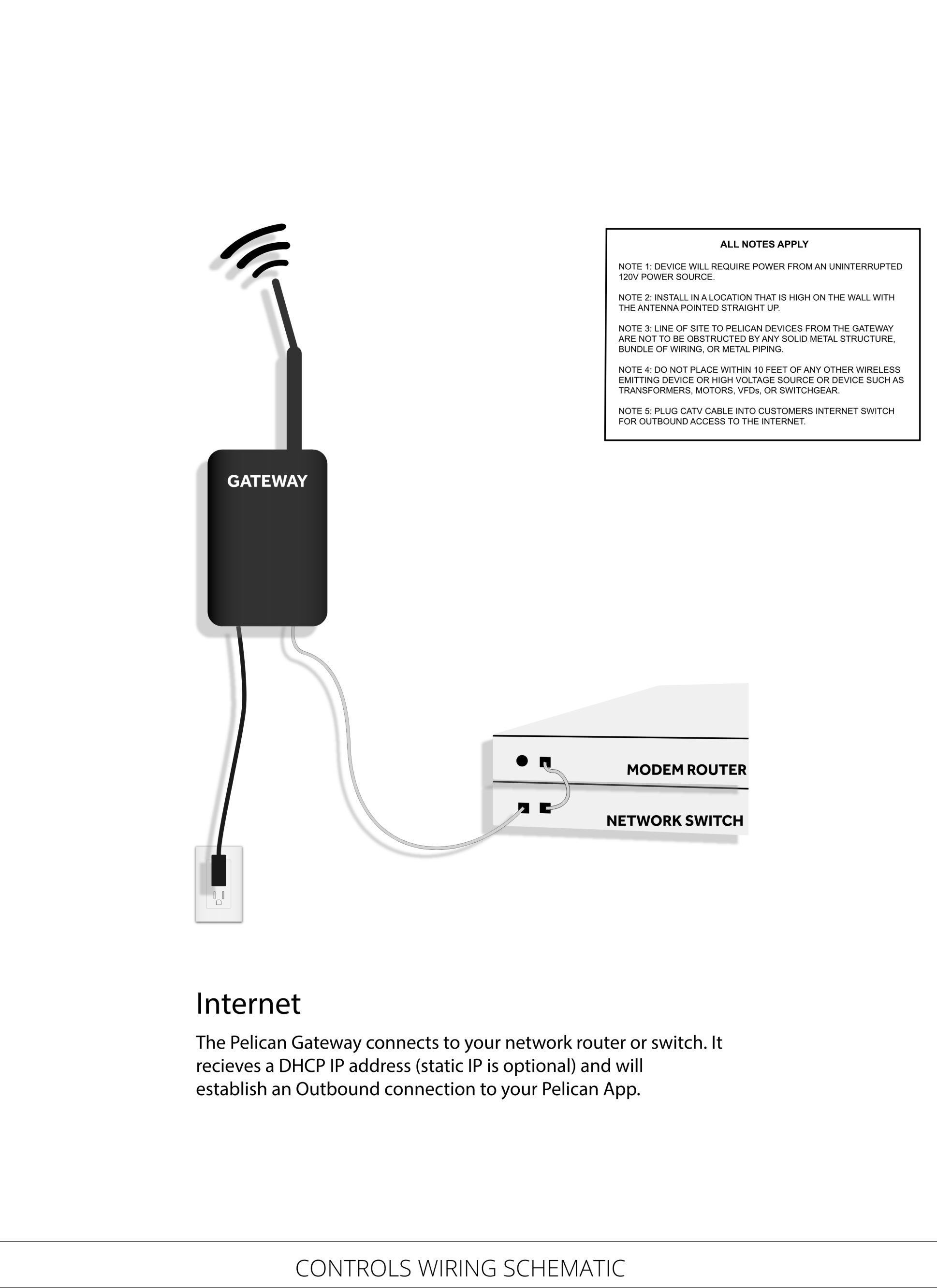
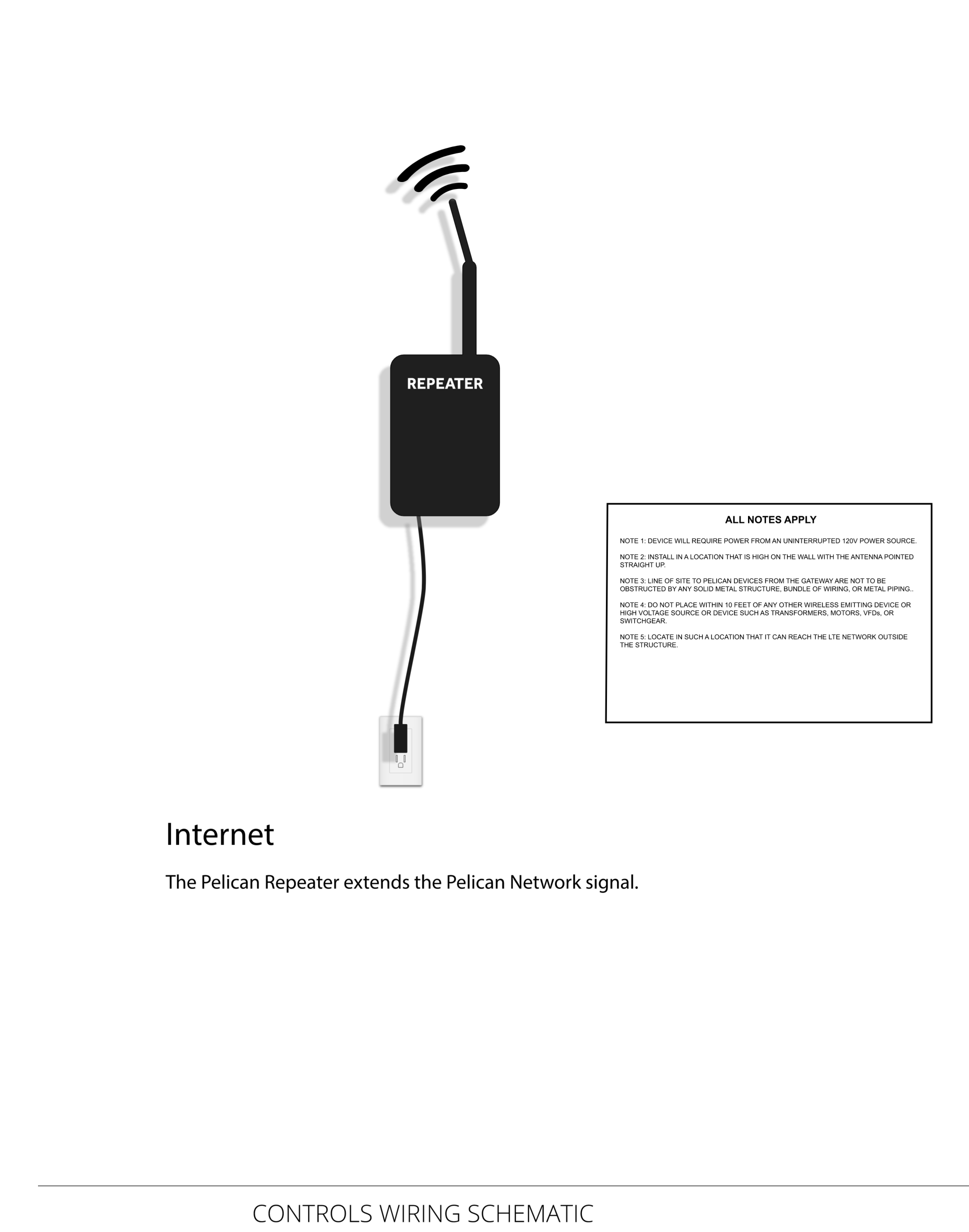
CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

SHEET:

M6.01

PLEASE RECYCLE



SEQUENCE OF OPERATION

THE PELICAN REPEATER COMMUNICATES THE PELICAN WIRELESS NETWORK UTILIZING IEEE STANDARD 802.15.4 AT 2.48GHZ LOCALLY WITH ALL PELICAN DEVICES AND CONNECTS THEM TO THE PELICAN CLOUD OVER AN ENCRYPTED VLAN CONNECTION THROUGH OUTBOUND ONLY FIREWALL PORTS. THERE IS NO PUBLIC IP ASSIGNED AND MAPPED TO ANY INTERNAL CUSTOMER LOCATION.

CONFIGURATIONS

Configuration with Pelican WebApp: Go to
– ADMIN > NETWORK MAP> and select the correct serial number.

Put the building and room number as the name, e.g. BLDG1RM201, or BLDG76RM400

NOTE: IF YOU HAVE ANY TROUBLE WITH THIS STEP PLEASE CONTACT PELICAN WIRELESS SUPPORT AT support@pelicanwireless.com or 888-512-0490 Opt 2.

SEQUENCE OF OPERATION

THE PELICAN GATEWAY COMMUNICATES THE PELICAN WIRELESS NETWORK UTILIZING IEEE STANDARD 802.15.4 AT 2.48GHZ LOCALLY WITH ALL PELICAN DEVICES AND CONNECTS THEM TO THE PELICAN CLOUD OVER AN ENCRYPTED VLAN CONNECTION THROUGH OUTBOUND ONLY FIREWALL PORTS. THERE IS NO PUBLIC IP ASSIGNED AND MAPPED TO ANY INTERNAL CUSTOMER LOCATION.

THE GATEWAY IS CONFIGURED TO RECEIVE A LOCAL ADDRESS VIA DHCP. IT CAN BE GIVEN A STATIC ADDRESS AFTER IT IS CONNECTED TO THE PELICAN CLOUD.

CONFIGURATIONS

CONFIGURE THE GATEWAY FOR A NEW SITE. GO TO WWW.PELICANWIRELESS.COM > NEW SITE

CONFIGURE THE GATEWAY ON AN EXISTING SITE. GO TO THE SITE NAME OF THE EXISTING SITE.

NOTE: IF YOU HAVE ANY TROUBLE WITH THIS STEP PLEASE CONTACT PELICAN WIRELESS SUPPORT AT support@pelicanwireless.com or 888-512-0490 Opt 2.

| STEP 1 - ENTER THE GATEWAY SERIAL NUMBER | STEP 1 - LOGIN TO THE SITE |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| STEP 2 - ENTER THE DESIRED NAME OF THE SITE WITH NO SPACES, LETTERS, NUMBERS, DASH, AND UNDERSCORE ARE ACCEPTABLE. THE NAME IS NOT CASE SENSITIVE. IF THE NAME IS ALREADY IN USED YOU WILL BE NOTIFIED. | STEP 2 - CLICK ON ADMIN |
| STEP 3 - ENTER YOUR EMAIL ADDRESS AS THE ADMINISTRATOR. (YOU CAN ADD AS MANY ADMINISTRATORS AND USERS LATER AS WELL AS REMOVE YOURSELF IF YOU CHOOSE.) | STEP 3 - CLICK ON SITE SETTINGS |
| STEP 4 - ENTER THE ZIP CODE OF THE LOCATION WHERE YOU ARE INSTALLING. | STEP 4 - CLICK ON GATEWAYS |
| STEP 5 - VERIFY THAT THE INFORMATION, ESPECIALLY THE EMAIL ADDRESS, IS CORRECT AND CLICK SUBMIT. | STEP 5 - CLICK THE "+" |
| STEP 6 - FROM THE AUTO GENERATED EMAIL (POSSIBLY IN YOUR SPAM FOLDER) LOGIN TO THE SITE. | STEP 6 - ENTER THE NEW GATEWAY SERIAL NUMBER |
| | STEP 7 - CLICK ON THAT GATEWAY AND ENTER THE NAME OF THE ROOM IT IS LOCATED IN. |

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RANCHO CORDOVA, CALIFORNIA

XX - XX/XX/XX 230528.00

PH - DESIGN TEAM PROJECT NO.

DATE SIGNED: _____

KEY PLAN:

FACILITY:

8405 TAM O'SHANTER DR.
STOCKTON, CA 95210

PROJECT:

LODI USD PARKLANE ES HVAC REPLACEMENT

SHEET NAME:

MECHANICAL CONTROLS

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

SHEET:

SYSTEM CONFIGURATIONS

SINGLE THERMOSTAT SYSTEMS

Configuration with Pelican WebApp: Go to – ADMIN > THERMOSTAT CONFIGURATION > and select the correct serial number.

Thermostat Setup Page:
Name: ** This is the room name that the stat is located in.
Group: ** Set as instructed by the CUSTOMER.
Description: The first line should be the RTU Number + Zone Number. e.g., RTU1-Z4, or RTU13-Z1-2

Thermostat Settings
System Type: Conventional
Heat Stages: 2
Cool Stages: 1
Fan Stages: 1 (this will show "1- variable" later)
Heat Needs Fan: Yes

Temperature Settings
Heat Range: 56° to 72°
Cool Range: 68° to 86°
CO2 Ventilation: 800ppm

Thermostat Operation
Please leave these as shown

Economizer = On
Note that you should run the "Economizer test and calibration function first to verify operation of the economizer damper. Damper open and closed positions will be recorded automatically.
Auto Configure: No
Minimum Damper Position: 10%*
Maximum Ventilation Position: 100%*

Variable Speed Fan = On
Cooling Fan Speed: 100%*
Heating Fan Speed: 50%*
Heating Fan Speed – Stage 2: 80%*
Ventilation Fan Speed: 40% *

Input Sensor T1 = On
Function: Supply Temperature
Cool Safe Range: 40° to 85°
Heat Safe Range: 50° to 165°

Input Sensor T2 = On
Function: Alarm
Label: Fan Status
Alarm Active Indication: Open*
Alarm Enabled: During Fan

Input Sensor T3 = On
Function: Outside Temperature

Wired Sensor
Function: Supply Temperature
Cool Safe Range: 40° to 85°
Heat Safe Range: 50° to 165°

Notification Settings
Sensitivity: Custom
Setpoint Deviation: 5°
Notify if Unreachable: Yes
Safe Range: 35° to 95°
CO2 Warning Level: 1800ppm

BUILDING STATIC COORDINATOR SETTINGS

Configuration with Pelican WebApp: Go to – ADMIN > ZONE CONTROLLER > and select the correct serial number then click CONFIGURATION SETTINGS

Name: ** This is the RTU number and AHU number. e.g., RTU2-4, RTU7-2

System Settings
System Type: Conventional
Heat Stages: 0
Cool Stages: 0
Fan Stages: 1
Heat Needs Fan: Yes

§ Building Static Control = On
Modulating Control Type (A1) = Damper Actuator
Actuator Voltages: Open = 0.0 / Closed = 10.0
Maximum Building Static: 0.06wc
Start Exhaust First (G2) = Yes
Variable Speed Fan = Off
Bypass Controller = Off
Static Pressure = Off
Economizer = Off
Humidity Settings = Off
Boiler Controller = Off

Input Sensor T1 = Off
Input Sensor T2 = Off
Input Sensor T3 = Off

NOTES:
All configurations are not shown here. Only the ones relevant to this installation. If you have any questions regarding any configuration you are seeing, please contact Pelican Technical Support and reference the document and or project number on this page.

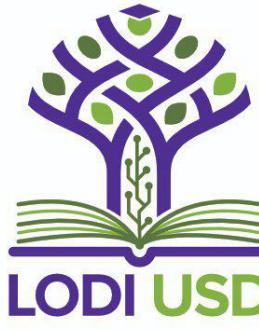
* - Set as appropriate per unit
** - Mechanical Contractor is to verify that the name is correct in respect to the Pelican Wireless thermostat serial number.
§ - Contact Pelican Technical Support for assistance

SEQUENCE OF OPERATION

NORMAL OPERATIONS:
VIA PELICAN EMS, THE UNIT WILL RUN ACCORDING TO THE USER DEFINABLE TIME SCHEDULE IN THE FOLLOW MODES:
A. OCCUPIED MODE: THE AHU WILL MAINTAIN
1. ALL OUTSIDE DAMPERS SHALL MAINTAIN MINIMUM AIRFLOW RATE (SET BY TAB), ALL SUPPLY FANS SHALL RUN SIMULTANEOUSLY. SYSTEMS WITH FLOATING ZONE DAMPERS THE FAN WILL MODULATE BASED ON STATIC PRESSURE OR OPERATE AT MINIMUM SPEED. FOR SYSTEMS WITH BACKDRAFT DAMPERS THE FAN WILL MODULATE BASED ON STAGES OF HEATING, COOLING, OR VENTILATION.
B. UNOCCUPIED MODE (NIGHT SETBACK), SCHEDULED FROM PELICAN EMS:
1. ZONE THERMOSTATS SHALL BE SET TO AN ECONOMY (ADJ) ROOM SET POINT.
2. AHU OUTSIDE DAMPER SHALL BE CLOSED AND FANS SHALL BE OFF.
3. ANY THERMOSTAT MAY CALL ANY INDIVIDUAL ZONE AIR HANDLER SYSTEM ON INDEPENDANT OF OTHER ZONES.
C. MORNING START:
1. ALL ZONE THERMOSTAT OCCUPIED SCHEDULES SHALL USE OPTIMUM START, ZONES SHALL BE SCHEDULED FOR THE TIME WHEN OCCUPANTS NORMALLY ARRIVE AND SHALL AUTO-CALCULATE WHEN TO START THE UNIT TO BRING ROOM TO THE OCCUPIED TEMPERATURE SET POINTS.
D. HEATING MODES:
1. ON SINGLE ZONE SYSTEM, PELICAN ZONE THERMOSTATS SHALL MONITOR ROOM TEMPERATURE. IF THE ROOM TEMPERATURE IS WITHIN ONE DEGREE BELOW THE HEAT SETPOINT, THERMOSTAT SHALL GO INTO MODERATE HEATING DEMAND, ENABLE FIRST STAGE HEATING, FAN SHALL TARGET THE LOW HEATING SPEED, AND OUTSIDE DAMPER SHALL PROVIDE VENTILATION UNTIL THE SPACE HEATING DEMAND IS SATISFIED. IF THE ROOM TEMPERATURE IS MORE THAN A DEGREE FROM THE HEAT SETPOINT, THERMOSTAT SHALL GO INTO AGGRESSIVE HEATING DEMAND, SECOND STAGE HEAT WILL BE ADDED, FAN SHALL TARGET THE HIGH HEATING SPEED, AND THE OUTSIDE DAMPER SHALL PROVIDE VENTILATION UNTIL THE SPACE HEATING DEMAND IS SATISFIED. ONCE ALL HEATING DEMAND IS ELIMINATED, A PURGE CYCLE SHALL OCCUR TO PUSH EXCESS HEAT OUT OF THE SYSTEM AND INTO THE SPACE. THEN HEAT SHALL BE DISABLED.
E. COOLING MODES:
1. ON SINGLE ZONE SYSTEM, PELICAN ZONE THERMOSTATS SHALL MONITOR ROOM TEMPERATURE. IF THE ROOM TEMPERATURE IS WITHIN ONE DEGREE ABOVE THE COOL SETPOINT, THERMOSTAT SHALL GO INTO MODERATE COOLING DEMAND, ENABLE FIRST STAGE COOLING, FAN SHALL TARGET THE LOW COOLING SPEED, AND OUTSIDE DAMPER SHALL PROVIDE VENTILATION UNTIL THE SPACE HEATING DEMAND IS SATISFIED. IF THE ROOM TEMPERATURE IS MORE THAN A DEGREE FROM THE COOL SETPOINT, THERMOSTAT SHALL GO INTO AGGRESSIVE COOLING DEMAND, SECOND STAGE COOLING WILL BE ADDED, FAN SHALL TARGET THE HIGH COOLING SPEED, AND THE OUTSIDE DAMPER SHALL PROVIDE VENTILATION UNTIL THE SPACE COOLING DEMAND IS SATISFIED. ONCE ALL COOLING DEMAND IS ELIMINATED, A PURGE CYCLE SHALL OCCUR TO PUSH EXCESS COOLING OUT OF THE SYSTEM AND INTO THE SPACE. THEN COOLING SHALL BE DISABLED.
F. ECONOMIZER
1. IF THERE IS COOLING DEMAND AND THE OUTSIDE AIR IS BELOW 65°F (ADJ), AND AT LEAST 4°F BELOW THE SPACE TEMPERATURE, AND IF THE ENTHALPY IS ACCEPTABLE, AHU SHALL ALLOW FOR AN ECONOMIZER CYCLE TO COOL ZONES. STAGES OF COOLING MAY BE ADDED IF ACCEPTABLE TO MEET SPACE CONDITIONS.
G. BUILDING PRESSURIZATION CONTROL:
1. THE BUILDING PRESSURE CONTROLLER WILL MONITOR BUILDING PRESSURE TO MAINTAIN A POSITIVE BUILDING PRESSURE OF 0.06 in wc. AS PRESSURE INCREASES IT WILL START THE EXHAUST FAN OR FANS AND WILL MODULATE THE SPEED OR SPEEDS TO REDUCE BUILDING PRESSURE.
H. DEMAND CONTROLLED VENTILATION
1. PELICAN ZONE THERMOSTATS WILL MEASURE CO2 IN THE SPACE.
2. AS CO2 INCREASES ABOVE THE SETPOINT OF 800ppm THE ASSOCIATED OUTDOOR AIR DAMPER WILL MODULATE OPEN UNTIL THE CO2 LEVEL STOPS INCREASING.
3. AS CO2 LEVELS BEGIN TO FALL AFTER EXCEEDING THE SETPOINT THE ASSOCIATED OUTDOOR AIR DAMPER WILL MODULATE BACK TO THE MINIMUM VENTILATION POSITION.
I. SAFETIES AND ALARMS:
1. FAULTS SHALL ALARM TO THE PELICAN EMS.
2. DUCT SMOKE DETECTOR(S) ARE TO BE HARD WIRED TO STOP THE EQUIPMENT, SUPPLY & EXHAUST FANS WHEN PRODUCTS OF COMBUSTION ARE DETECTED IN THE AIR STREAM.

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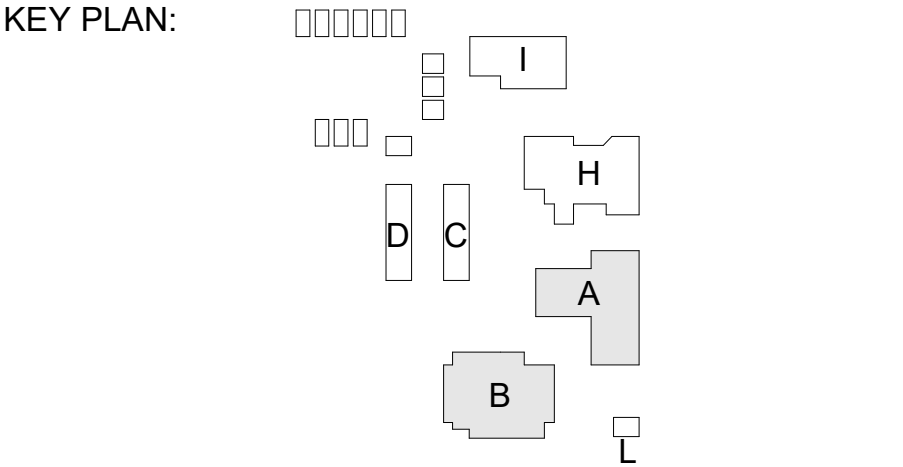


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| DESCRIPTION | DATE |
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KEYNOTES

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FACILITY:

8405 TAM O'SHANTER DR.
STOCKTON, CA 95210

PROJECT:
LODI USD PARKLANE ES HVAC REPLACEMENT

SHEET NAME:
MECHANICAL CONTROLS

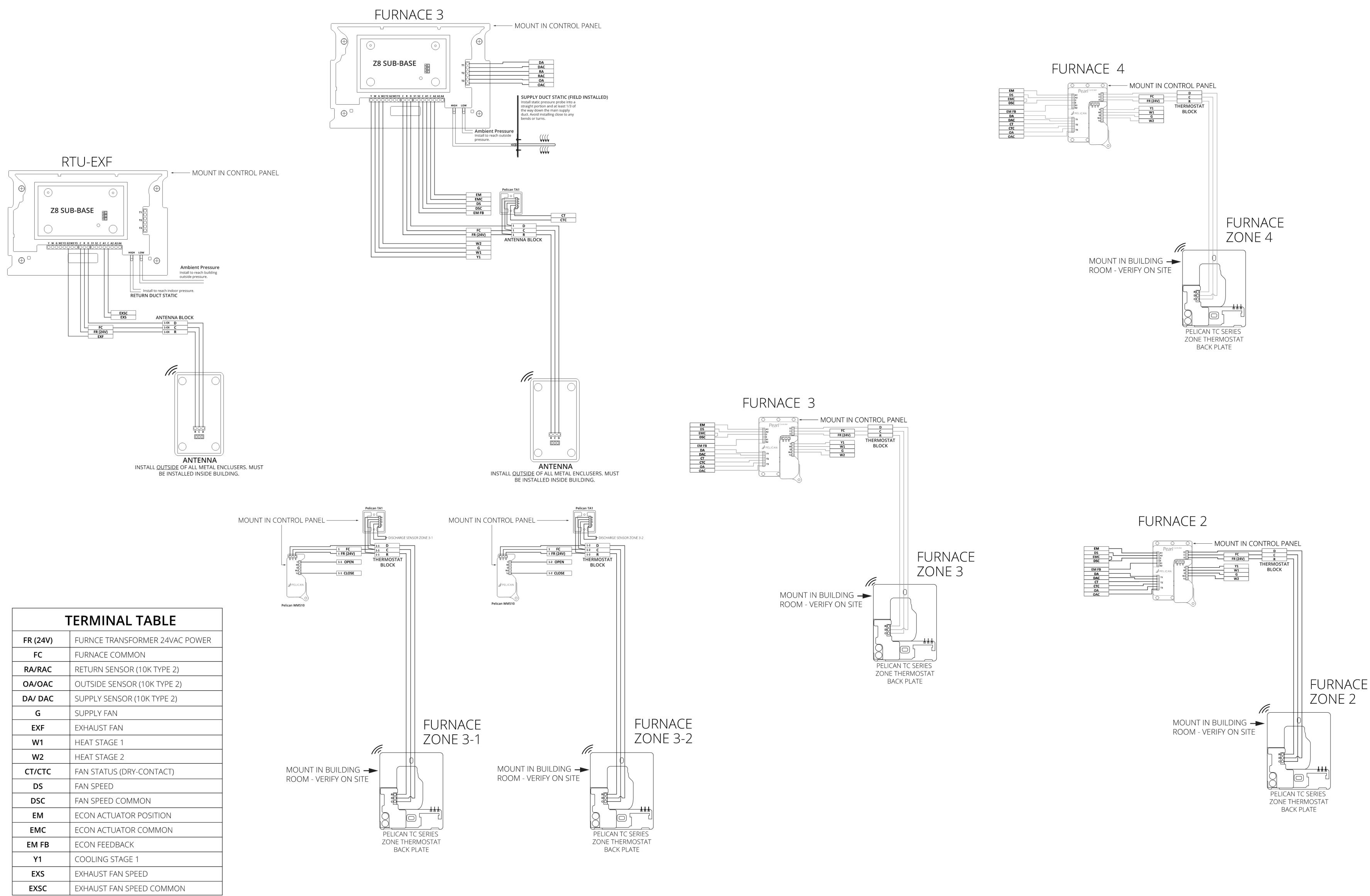
CONSTRUCTION DOCUMENTS

DATE: 10.03.2023
SHEET:

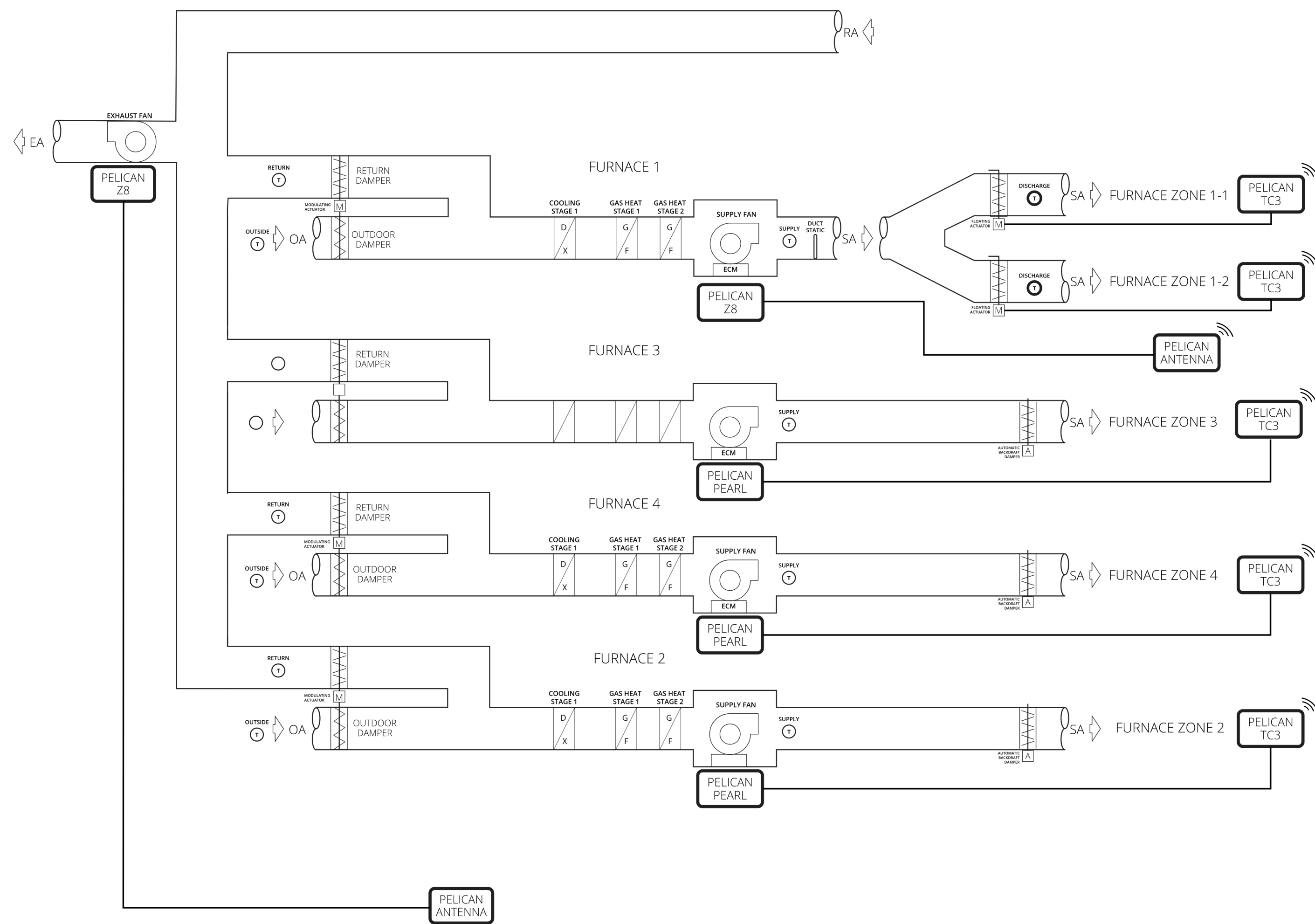
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CONTROLS WIRING SCHEMATIC

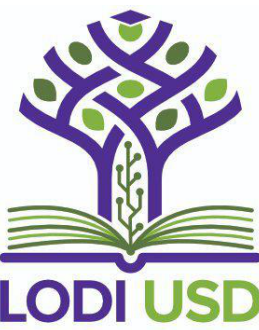


AIR FLOW SCHEMATIC

| MFG | PART NUMBER | PART NAME | QTY |
|---------|-------------|------------------------|-----|
| PELICAN | TC3 | TOUCH THERMOSTAT w/CO2 | 5 |
| PELICAN | PEARL | ADVANCED CONTROLLER | 3 |
| PELICAN | Z3 | ZONE COORDINATOR | 2 |
| PELICAN | TA1 | TEMPERATURE INPUT | 2 |
| PELICAN | PROBE-T1 | 10K DUCT PROBE | 2 |

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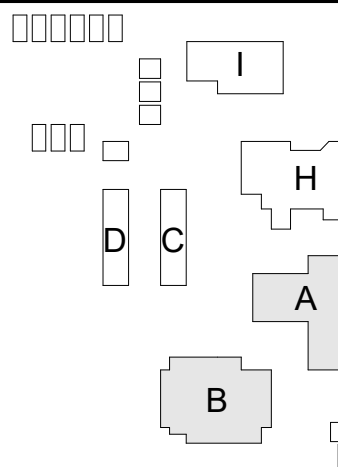
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KEYNOTES

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KEY PLAN:



FACILITY:

8405 TAM O'SHANTER DR.
STOCKTON, CA 95210

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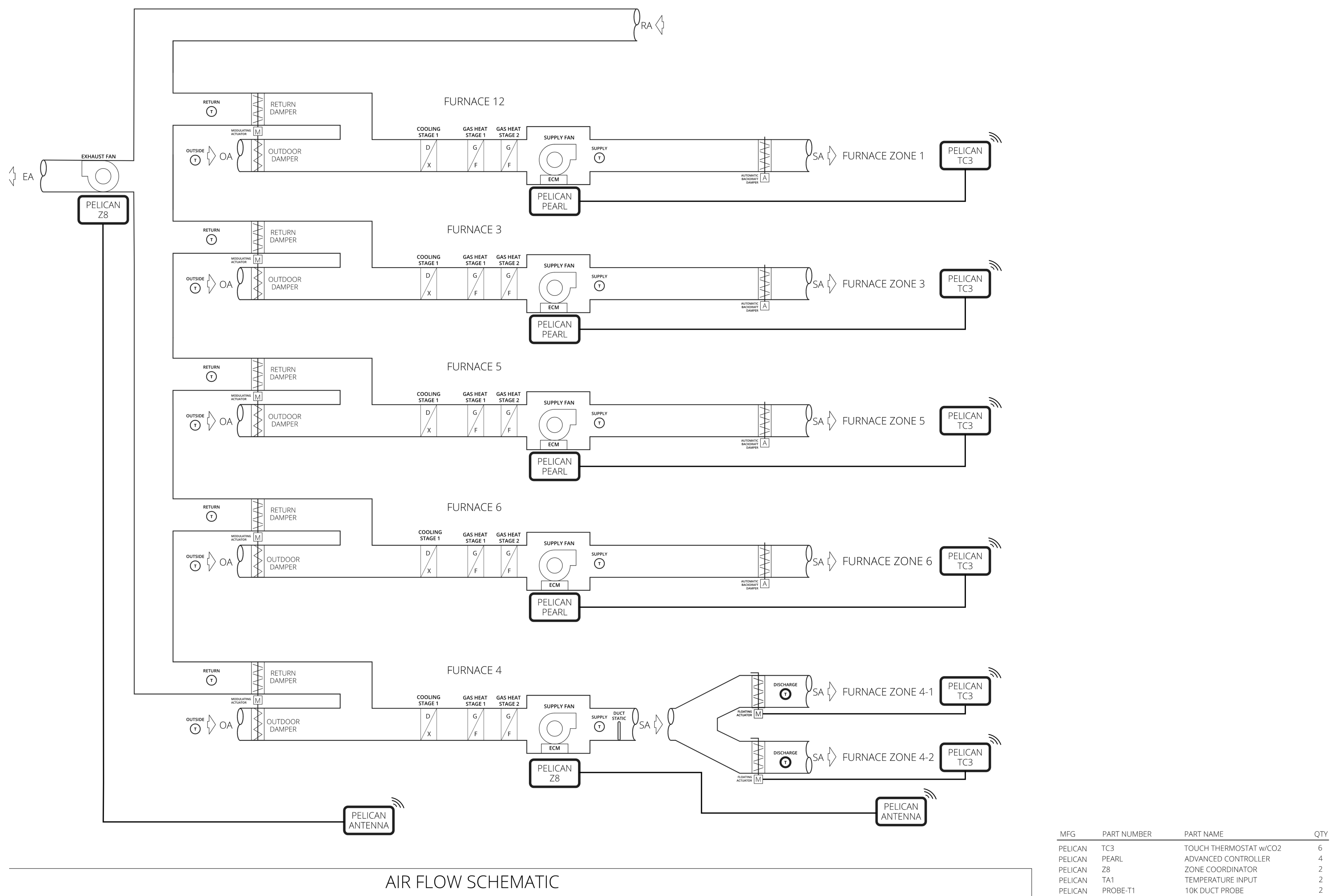
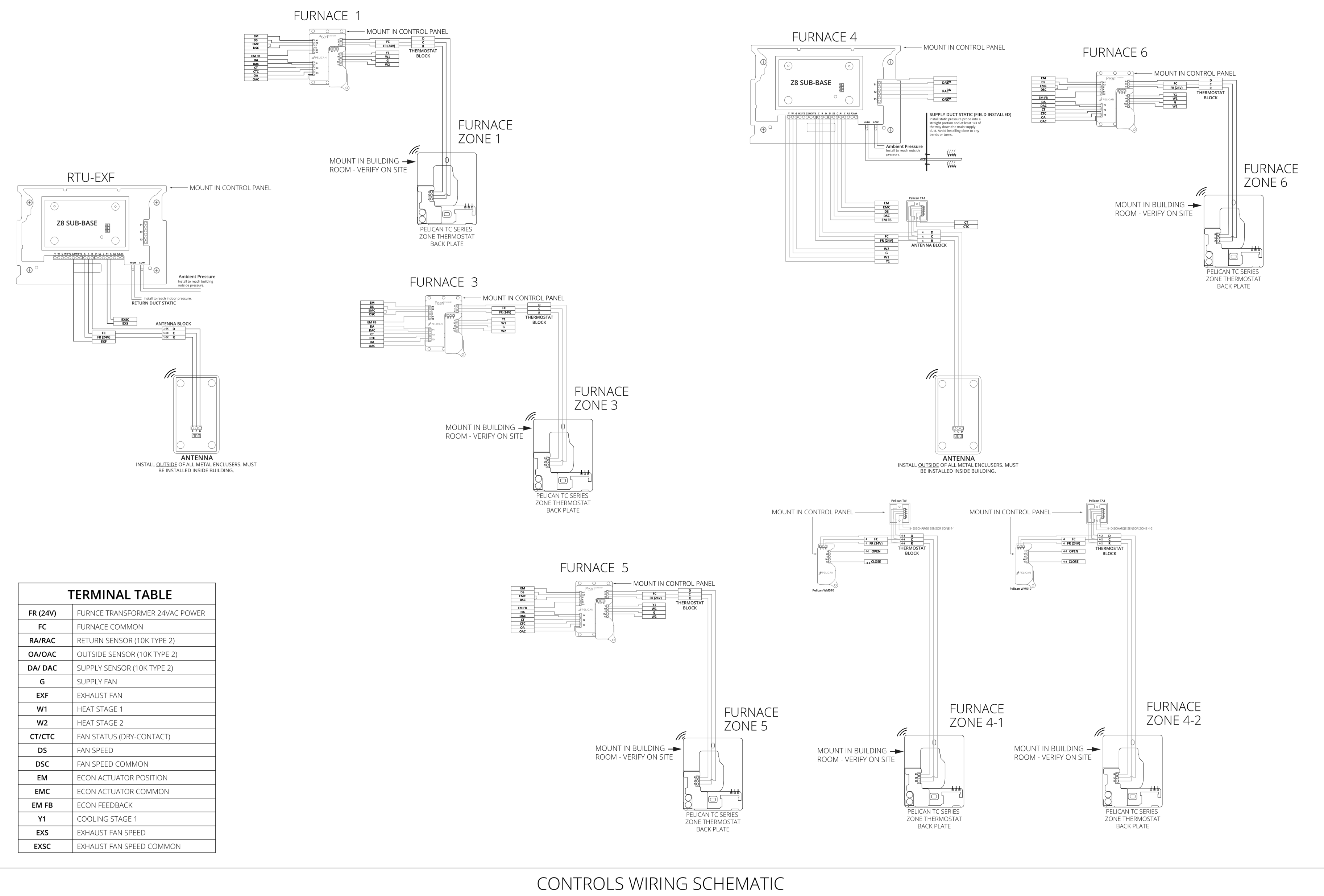
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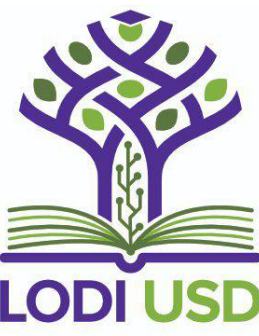
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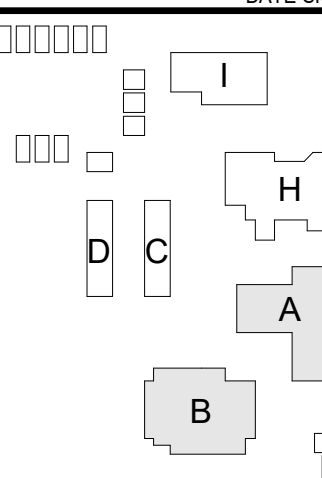
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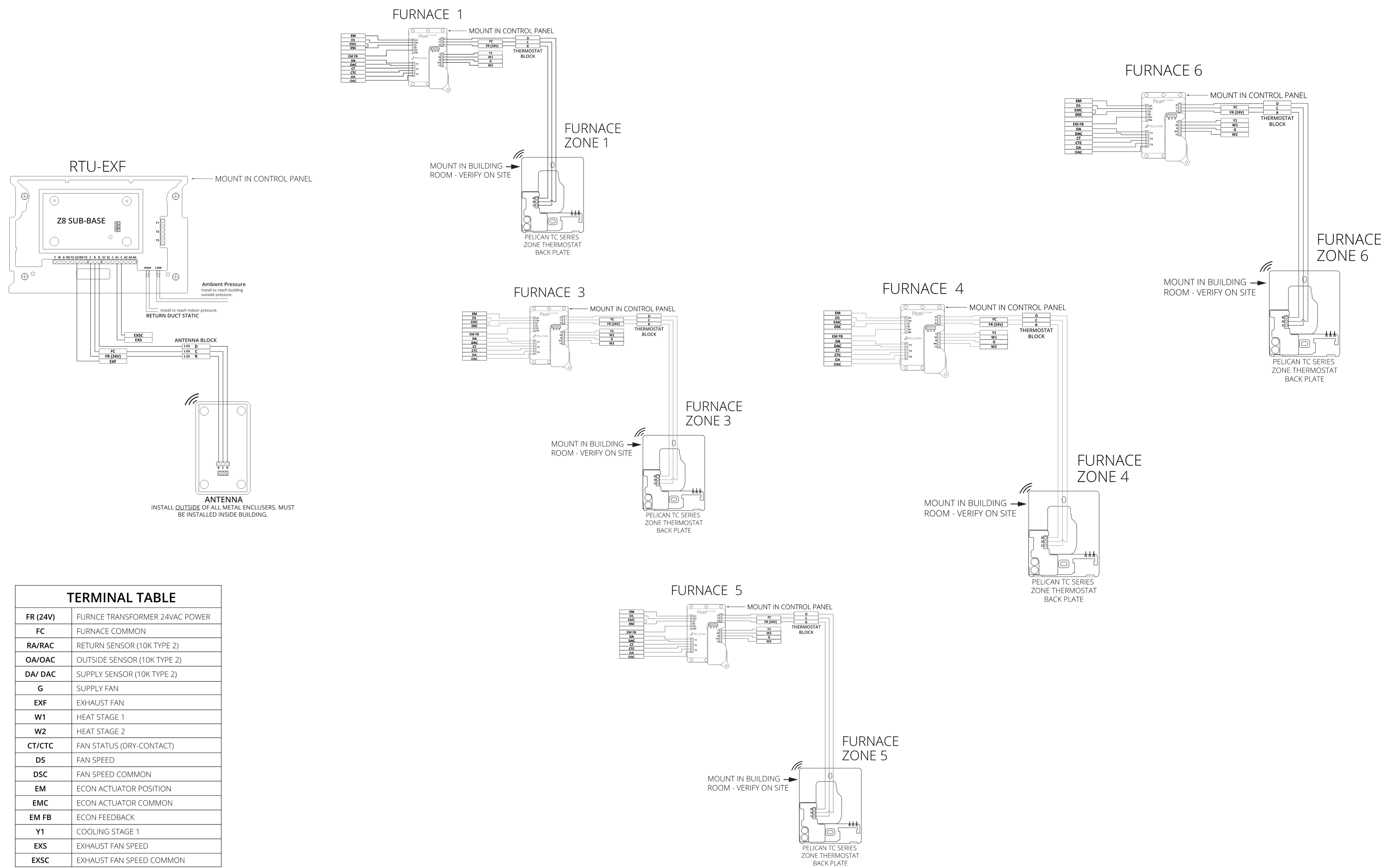
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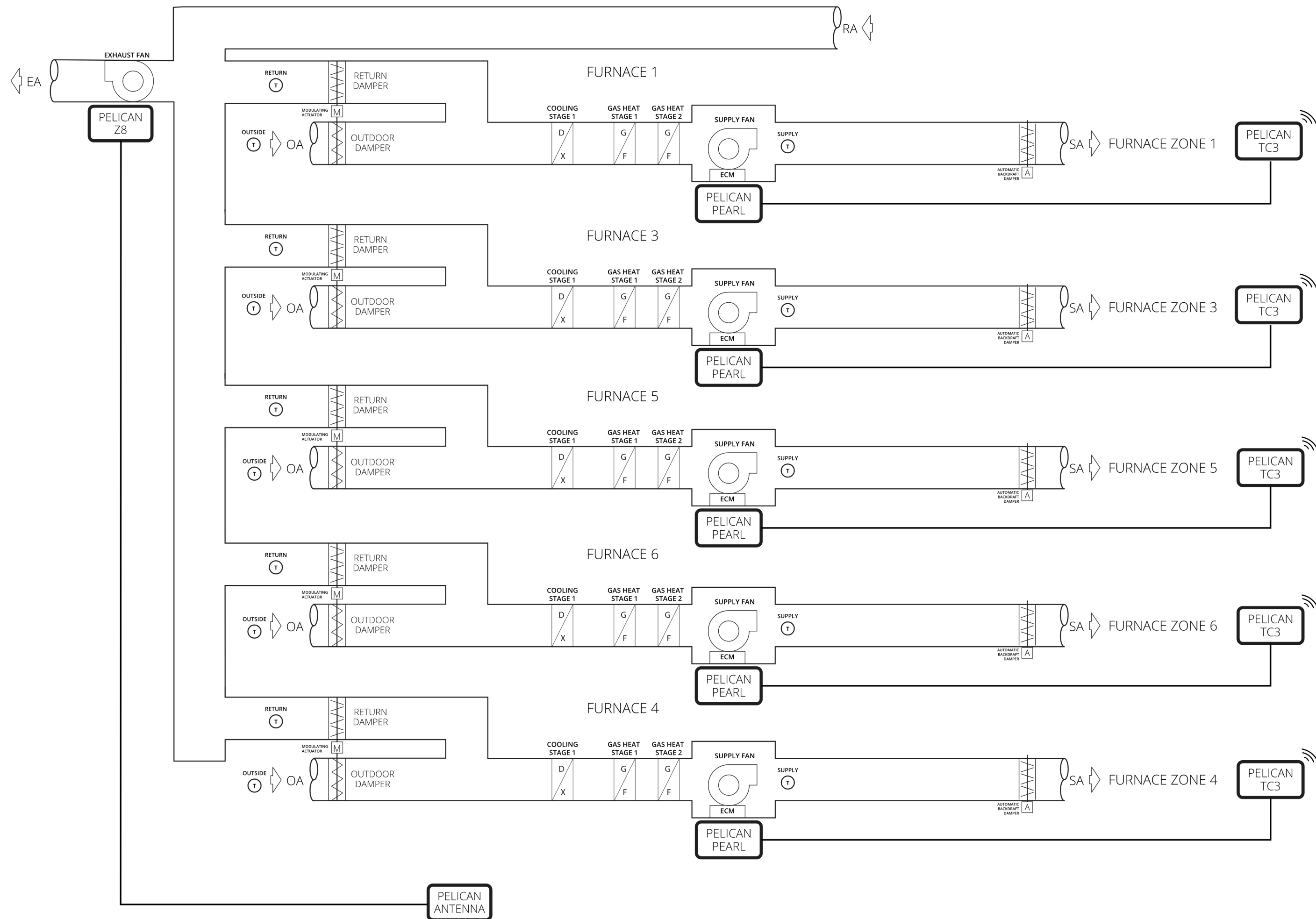
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CONTROLS WIRING SCHEMATIC

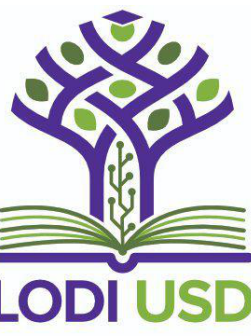


AIR FLOW SCHEMATIC

| MFG | PART NUMBER | PART NAME | QTY |
|---------|-------------|-----------------------|-----|
| PELICAN | TC3 | TOUCH THERMOSTAT-WC02 | 5 |
| PELICAN | PEARL | ADVANCED CONTROLLER | 5 |
| PELICAN | Z8 | ZONE COORDINATOR | 1 |

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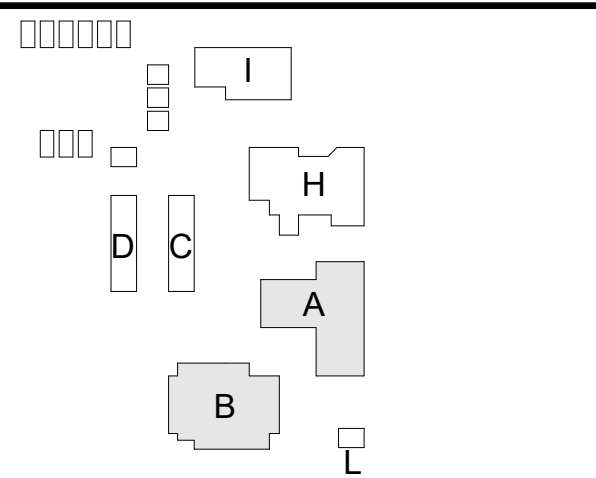
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KEY PLAN:



FACILITY:

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STOCKTON, CA 95210

PROJECT:
LODI USD PARKLANE ES HVAC REPLACEMENT

SHEET NAME:
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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Mechanical Systems

CERTIFICATE OF COMPLIANCE

Project Name: Parklane ES HVAC Replacement - Load USD

Report Page: (Page 1 of 11)

Date Prepared: 2023-09-27 14:26:48-04:00

| | | | | |
|------------------------------------|------|-----------------------------------------|--|------|
| A. GENERAL INFORMATION | | 04 Total Conditioned Floor Area | | 5999 |
| 01 Project Location (city) | LosB | 05 Total Unconditioned Floor Area | | 0 |
| 02 Climate Zone | 12 | 06 # of Stories (Habitable Above Grade) | | 1 |
| 03 Occupancy Types Within Project: | | | | |
| Classroom | | | | |

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)(2) and 180.2(b)(2) for alterations.

| | | | |
|----------------------------------------------------------|--|-----------------------------------------------|--|
| 02 | | 03 | |
| Air System(s) | | Dry System Components | |
| Heating Air System | | Water Economizer | |
| Cooling Air System | | Pumps | |
| Mechanical Controls | | System Pump | |
| Mechanical Controls (existing to remain, altered or new) | | Cooling Towers | |
| Chillers | | Ductwork (existing to remain, altered or new) | |
| Boilers | | Ventilation | |
| | | Zonal Systems/Terminal Boxes | |

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

Generated Date/Time: 2023-09-22 11:26:55

Documentation Software: Energy Code Ace

Compliance ID: 144256-0923-0002

Report Generated: 2023-09-22 11:26:55

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Mechanical Systems

CERTIFICATE OF COMPLIANCE

Project Name: Parklane ES HVAC Replacement - Load USD

Report Page: (Page 1 of 11)

Date Prepared: 2023-09-27 14:26:48-04:00

| | | | | | | | | | | | | | | | | | |
|----------------------------------|-------------|-------|----------------------------------------------------------|---------------------------------|----------------------|----------------------|---------------------------|--------------------------------------|----------------------------|------------------------------------|-------|----------------|---|------------|-------------------|----|--|
| H. FAN SYSTEMS & AIR ECONOMIZERS | | 04 | | 05 | | 06 | | 07 | | 08 | | 09 | | 10 | | 11 | |
| System Name | SF 2000 cfm | Quant | 2 | Fan System | New | System Zoning | All other (system) | Serving dwelling Units | Not Serving dwelling Units | Fan System Allowance (watt/cfm) | 2,000 | Site Elevation | 0 | Economizer | Fixed Temperature | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | | | | | | | |
| Fan Name or Item Tag | Fan Type | Qty | Component | Airflow through Component (ft³) | Water Gauge (in.gal) | Compressor Allowance | Fan Allowance (watt/cfm) | Design Electrical Input Power Method | Motor Nameplate Horsepower | Design Electrical Input Power (kW) | | | | | | | |
| SF-2000 cfm | Supply | 1 | Base Allowance for system serving spaces <=6 floors away | 100 | 0 | 0.137 | Default per Table 140.4-D | <=1 and <1.5 | 1.29 | | | | | | | | |
| | | | Hydronic/DX cooling coil or heat pump coil | 100 | 0.15 | 0.187 | | | | | | | | | | | |
| | | | Gas heat | 100 | 0.15 | 0.187 | | | | | | | | | | | |
| Supply Fan Base Allowance (kW) | 0.232 | | Exhaust/Return/Transfer Fan Base Allowance(kW) | 0 | | | Fan System Allowance (kW) | | | | | | | | | | |

1 FOOTNOTES: Fans serving spaces with design background noise goals below NC65

2 Low soundness single zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.

3 Fan system allowance includes fan system base allowance.

4 Filter pressure loss can only be counted once per fan system.

5 Complete Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.

6 Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRC-C-PRC-E document.

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)(4D)

| | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
|----|----|----|----|----|----|----|----|----|----|----|

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

Generated Date/Time: 2023-09-22 11:26:55

Documentation Software: Energy Code Ace

Compliance ID: 144256-0923-0002

Report Generated: 2023-09-22 11:26:55

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Mechanical Systems

CERTIFICATE OF COMPLIANCE

Project Name: Parklane ES HVAC Replacement - Load USD

Report Page: (Page 3 of 11)

Date Prepared: 2023-09-27 14:26:48-04:00

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRC-I/

Form/Title

NRC-I-MCH-D1-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRC-A/

Form/Title

Systems/Spaces To Be Field Verified

NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.

NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes" if Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".

NRCA-MCH-05-A - Air Economizer Controls

NRCA-MCH-12-A TDD for Packaged Direct Expansion Units

NRCA-MCH-18-A Energy Management Control Systems

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Report Page: (Page 2 of 11)

Date Prepared: 2023-09-27 14:26:48-04:00

| | | | | | | | | | | | | | |
|---------------------------------------------------------|---------------------------------------------------|-----|-------|-----------------------|-----|----------------|------------------------------|-----|-----------------|--------------------------------------------|-----|-------------|--------------------------------------------|
| C. COMPLIANCE RESULTS | | 04 | | 05 | | 06 | | 07 | | 08 | | 09 | |
| System Summary | 110.1, 110.2, 140.4, 140.4(i), 140.4(j), 170.2(c) | 02 | Pumps | 140.4(k), 170.2(c)(4) | 03 | Fan/Economizer | 140.4(k), 140.4(i), 170.2(c) | 04 | System Controls | 120.1, 120.2, 140.4(i), 140.4(j), 170.2(c) | 05 | Ventilation | 120.1, 120.2, 140.4(i), 140.4(j), 170.2(c) |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | | | | | |
| Yes | AND | AND | AND | AND | AND | AND | AND | AND | AND | AND | AND | AND | AND |
| Mandatory Measures Compliance (See Table Q for Details) | | | | | | | | | | | | | |
| COMPLIES | | | | | | | | | | | | | |

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

The permit applicant has indicated on Table I that ventilation calculations have been attached or included elsewhere on the plans.

Selections made in the Certificate of Acceptance Table have been changed by the permit applicant. See Table E. Additional Remarks for permit applicant's explanation.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

(NRCA-MCH-03-A Explanation) Not automatically moved to yes - Needed for Single Zone Sys

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Mechanical Systems

CERTIFICATE OF COMPLIANCE

Project Name: Parklane ES HVAC Replacement - Load USD

Report Page: (Page 4 of 11)

Date Prepared: 2023-09-27 14:26:48-04:00

| | | | | | | | | | | | | | |
|-----------------------------------------------------|-----|-----------------------------|----------------------------|-----------------|--------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------|------------------------------|-------------------------|------------------------|--|----|--|
| H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)(4D) | | 04 | | 05 | | 06 | | 07 | | 08 | | 09 | |
| Fan System Name | Qty | Hours of Operation per Year | Design Supply Airflow Rate | Outdoor Airflow | % Outdoor Air at Full Design Airflow | Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(q) & 170.2(c)(4D) | Exhaust Air Heat Recovery 140.4(q) & 170.2(c)(4D) | Type Of Heat Recovery Rating | Required Recovery Ratio | Energy Recovery Bypass | | | |
| SF-2000 cfm | 2 | < 8,000 | 2,000 | 600 | 0.3 | No Exemptions Apply | Not Required | | | | | | |
| Fan Energy Index (FEI) | | 02 | | 03 | | 04 | | 05 | | 06 | | 07 | |
| Name or Item Tag | | FEI Exemption | | FEI | | | | | | | | | |
| SF-2000 cfm | | Embedded Fan <5HP or <4.1kW | | | | | | | | | | | |

| I. SYSTEM CONTROLS | | II. SYSTEM CONTROLS | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (g), 170.2(c)(4), 170.2(c)(4), or requirements in 141.1(c)(1), 141.1(c)(2) for altered space conditioning systems. | | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
| System Name | System Zoning | Conditioned Floor Area Being Served (ft ²) | Thermostats (110.2)(b) & (g), 120.2)(a) & 120.2)(a)(1) or 120.2)(a)(2) or 120.2)(a)(3) or 120.2)(a)(4) or 120.2)(a)(5) or 120.2)(a)(6) or 120.2)(a)(7) or 120.2)(a)(8) or 120.2)(a)(9) or 120.2)(a)(10) or 120.2)(a)(11) or 120.2)(a)(12) or 120.2)(a)(13) or 120.2)(a)(14) or 120.2)(a)(15) or 120.2)(a)(16) or 120.2)(a)(17) or 120.2)(a)(18) or 120.2)(a)(19) or 120.2)(a)(20) or 120.2)(a)(21) or 120.2)(a)(22) or 120.2)(a)(23) or 120.2)(a)(24) or 120.2)(a)(25) or 120.2)(a)(26) or 120.2)(a)(27) or 120.2)(a)(28) or 120.2)(a)(29) or 120.2)(a)(30) or 120.2)(a)(31) or 120.2)(a)(32) or 120.2)(a)(33) or 120.2)(a)(34) or 120.2)(a)(35) or 120.2)(a)(36) or 120.2)(a)(37) or 120.2)(a)(38) or 120.2)(a)(39) or 120.2)(a)(40) or 120.2)(a)(41) or 120.2)(a)(42) or 120.2)(a)(43) or 120.2)(a)(44) or 120.2)(a)(45) or 120.2)(a)(46) or 120.2)(a)(47) or 120.2)(a)(48) or 120.2)(a)(49) or 120.2)(a)(50) or 120.2)(a)(51) or 120.2)(a)(52) or 120.2)(a)(53) or 120.2)(a)(54) or 120.2)(a)(55) or 120.2)(a)(56) or 120.2)(a)(57) or 120.2)(a)(58) or 120.2)(a)(59) or 120.2)(a)(60) or 120.2)(a)(61) or 120.2)(a)(62) or 120.2)(a)(63) or 120.2)(a)(64) or 120.2)(a)(65) or 120.2)(a)(66) or 120.2)(a)(67) or 120.2)(a)(68) or 120.2)(a)(69) or 120.2)(a)(70) or 120.2)(a)(71) or 120.2)(a)(72) or 120.2)(a)(73) or 120.2)(a)(74) or 120.2)(a)(75) or 120.2)(a)(76) or 120.2)(a)(77) or 120.2)(a)(78) or 120.2)(a)(79) or 120.2)(a)(80) or 120.2)(a)(81) or 120.2)(a)(82) or 120.2)(a)(83) or 120.2)(a)(84) or 120.2)(a)(85) or 120.2)(a)(86) or 120.2)(a)(87) or 120.2)(a)(88) or 120.2)(a)(89) or 120.2)(a)(90) or 120.2)(a)(91) or 120.2)(a)(92) or 120.2)(a)(93) or 120.2)(a)(94) or 120.2)(a)(95) or 120.2)(a)(96) or 120.2)(a)(97) or 120.2)(a)(98) or 120.2)(a)(99) or 120.2)(a)(100) or 120.2)(a)(101) or 120.2)(a)(102) or 120.2)(a)(103) or 120.2)(a)(104) or 120.2)(a)(105) or 120.2)(a)(106) or 120.2)(a)(107) or 120.2)(a)(108) or 120.2)(a)(109) or 120.2)(a)(110) or 120.2)(a)(111) or 120.2)(a)(112) or 120.2)(a)(113) or 120.2)(a)(114) or 120.2)(a)(115) or 120.2)(a)(116) or 120.2)(a)(117) or 120.2)(a)(118) or 120.2)(a)(119) or 120.2)(a)(120) or 120.2)(a)(121) or 120.2)(a)(122) or 120.2)(a)(123) or 120.2)(a)(124) or 120.2)(a)(125) or 120.2)(a)(126) or 120.2)(a)(127) or 120.2)(a)(128) or 120.2)(a)(129) or 120.2)(a)(130) or 120.2)(a)(131) or 120.2)(a)(132) or 120.2)(a)(133) or 120.2)(a)(134) or 120.2)(a)(135) or 120.2)(a)(136) or 120.2)(a)(137) or 120.2)(a)(138) or 120.2)(a)(139) or 120.2)(a)(140) or 120.2)(a)(141) or 120.2)(a)(142) or 120.2)(a)(143) or 120.2)(a)(144) or 120.2)(a)(145) or 120.2)(a)(146) or 120.2)(a)(147) or 120.2)(a)(148) or 120.2)(a)(149) or 120.2)(a)(150) or 120.2)(a)(151) or 120.2)(a)(152) or 120.2)(a)(153) or 120.2)(a)(154) or 120.2)(a)(155) or 120.2)(a)(156) or 120.2)(a)(157) or 120.2)(a)(158) or 120.2)(a)(159) or 120.2)(a)(160) or 120.2)(a)(161) or 120.2)(a)(162) or 120.2)(a)(163) or 120.2)(a)(164) or 120.2)(a)(165) or 120.2)(a)(166) or 120.2)(a)(167) or 120.2)(a)(168) or 120.2)(a)(169) or 120.2)(a)(170) or 120.2)(a)(171) or 120.2)(a)(172) or 120.2)(a)(173) or 120.2)(a)(174) or 120.2)(a)(175) or 120.2)(a)(176) or 120.2)(a)(177) or 120.2)(a)(178) or 120.2)(a)(179) or 120.2)(a)(180) or 120.2)(a)(181) or 120.2)(a)(182) or 120.2)(a)(183) or 120.2)(a)(184) or 120.2)(a)(185) or 120.2)(a)(186) or 120.2)(a)(187) or 120.2)(a)(188) or 120.2)(a)(189) or 120.2)(a)(190) or 120.2)(a)(191) or 120.2)(a)(192) or 120.2)(a)(193) or 120.2)(a)(194) or 120.2)(a)(195) or 120.2)(a)(196) or 120.2)(a)(197) or 120.2)(a)(198) or 120.2)(a)(199) or 120.2)(a)(200) or 120.2)(a)(201) or 120.2)(a)(202) or 120.2)(a)(203) or 120.2)(a)(204) or 120.2)(a)(205) or 120.2)(a)(206) or 120.2)(a)(207) or 120.2)(a)(208) or 120.2)(a)(209) or 120.2)(a)(210) or 120.2)(a)(211) or 120.2)(a)(212) or 120.2)(a)(213) or 120.2)(a)(214) or 120.2)(a)(215) or 120.2)(a)(216) or 120.2)(a)(217) or 120.2)(a)(218) or 120.2)(a)(219) or 120.2)(a)(220) or 120.2)(a)(221) or 120.2)(a)(222) or 120.2)(a)(223) or 120.2)(a)(224) or 120.2)(a)(225) or 120.2)(a)(226) or 120.2)(a)(227) or 120.2)(a)(228) or 120.2)(a)(229) or 120.2)(a)(230) or 120.2)(a)(231) or 120.2)(a)(232) or 120.2)(a)(233) or 120.2)(a)(234) or 120.2)(a)(235) or 120.2)(a)(236) or 120.2)(a)(237) or 120.2)(a)(238) or 120.2)(a)(239) or 120.2)(a)(240) or 120.2)(a)(241) or 120.2)(a)(242) or 120.2)(a)(243) or 120.2)(a)(244) or 120.2)(a)(245) or 120.2)(a)(246) or 120.2)(a)(247) or 120.2)(a)(248) or 120.2)(a)(249) or 120.2)(a)(250) or 120.2)(a)(251) or 120.2)(a)(252) or 120.2)(a)(253) or 120.2)(a)(254) or 120.2)(a)(255) or 120.2)(a)(256) or 120.2)(a)(257) or 120.2)(a)(258) or 120.2)(a)(259) or 120.2)(a)(260) or 120.2)(a)(261) or 120.2)(a)(262) or 120.2)(a)(263) or 120.2)(a)(264) or 120.2)(a)(265) or 120.2)(a)(266) or 120.2)(a)(267) or 120.2)(a)(268) or 120.2)(a)(269) or 120.2)(a)(270) or 120.2)(a)(271) or 120.2)(a)(272) or 120.2)(a)(273) or 120.2)(a)(274) or 120.2)(a)(275) or 120.2)(a)(276) or 120.2)(a)(277) or 120.2)(a)(278) or 120.2)(a)(279) or 120.2)(a)(280) or 120.2)(a)(281) or 120.2)(a)(282) or 120.2)(a)(283) or 120.2)(a)(284) or 120.2)(a)(285) or 120.2)(a)(286) or 120.2)(a)(287) or 120.2)(a)(288) or 120.2)(a)(289) or 120.2)(a)(290) or 120.2)(a)(291) or 120.2)(a)(292) or 120.2)(a)(293) or 120.2)(a)(294) or 120.2)(a)(295) or 120.2)(a)(296) or 120.2)(a)(297) or 120.2)(a)(298) or 120.2)(a)(299) or 120.2)(a)(300) or 120.2)(a)(301) or 120.2)(a)(302) or 120.2)(a)(303) or 120.2)(a)(304) or 120.2)(a)(305) or 120.2)(a)(306) or 120.2)(a)(307) or 120.2)(a)(308) or 120.2)(a)(309) or 120.2)(a)(310) or 120.2)(a)(311) or 120.2)(a)(312) or 120.2)(a)(313) or 120.2)(a)(314) or 120.2)(a)(315) or 120.2)(a)(316) or 120.2)(a)(317) or 120.2)(a)(318) or 120.2)(a)(319) or 120.2)(a)(320) or 120.2)(a)(321) or 120.2)(a)(322) or 120.2)(a)(323) or 120.2)(a)(324) or 120.2)(a)(325) or 120.2)(a)(326) or 120.2)(a)(327) or 120.2)(a)(328) or 120.2)(a)(329) or 120.2)(a)(330) or 120.2)(a)(331) or 120.2)(a)(332) or 120.2)(a)(333) or 120.2)(a)(334) or 120.2)(a)(335) or 120.2)(a)(336) or 120.2)(a)(337) or 120.2)(a)(338) or 120.2)(a)(339) or 120.2)(a)(340) or 120.2)(a)(341) or 120.2)(a)(342) or 120.2)(a)(343) or 120.2)(a)(344) or 120.2)(a)(345) or 120.2)(a)(346) or 120.2)(a)(347) or 120.2)(a)(348) or 120.2)(a)(349) or 120.2)(a)(350) or 120.2)(a)(351) or 120.2)(a)(352) or 120.2)(a)(353) or 120.2)(a)(354) or 120.2)(a)(355) or 120.2)(a)(356) or 120.2)(a)(357) or 120.2)(a)(358) or 120.2)(a)(359) or 120.2)(a)(360) or 120.2)(a)(361) or 120.2)(a)(362) or 120.2)(a)(363) or 120.2)(a)(364) or 120.2)(a)(365) or 120.2)(a)(366) or 120.2)(a)(367) or 120.2)(a)(368) or 120.2)(a)(369) or 120.2)(a)(370) or 120.2)(a)(371) or 120.2)(a)(372) or 120.2)(a)(373) or 120.2)(a)(374) or 120.2)(a)(375) or 120.2)(a)(376) or 120.2)(a)(377) or 120.2)(a)(378) or 120.2)(a)(379) or 120.2)(a)(380) or 120.2)(a)(381) or 120.2)(a)(382) or 120.2)(a)(383) or 120.2)(a)(384) or 120.2)(a)(385) or 120.2)(a)(386) or 120.2)(a)(387) or 120.2)(a)(388) or 120.2)(a)(389) or 120.2)(a)(390) or 120.2)(a)(391) or 120.2)(a)(392) or 120.2)(a)(393) or 120.2)(a)(394) or 120.2)(a)(395) or 120.2)(a)(396) or 120.2)(a)(397) or 120.2)(a)(398) or 120.2)(a)(399) or 120.2)(a)(400) or 120.2)(a)(401) or 120.2)(a)(402) or 120.2)(a)(403) or 120.2)(a)(404) or 120.2)(a)(405) or 120.2)(a)(406) or 120.2)(a)(407) or 120.2)(a)(408) or 120.2)(a)(409) or 120.2)(a)(410) or 120.2)(a)(411) or 120.2)(a)(412) or 120.2)(a)(413) or 120.2)(a)(414) or 120.2)(a)(415) or 120.2)(a)(416) or 120.2)(a)(417) or 120.2)(a)(418) or 120.2)(a)(419) or 120.2)(a)(420) or 120.2)(a)(421) or 120.2)(a)(422) or 120.2)(a)(423) or 120.2)(a)(424) or 120.2)(a)(425) or 120.2)(a)(426) or 120.2)(a)(427) or 120.2)(a)(428) or 120.2)(a)(429) or 120.2)(a)(430) or 120.2)(a)(431) or 120.2)(a)(432) or 120.2)(a)(433) or 120.2)(a)(434) or 120.2)(a)(435) or 120.2)(a)(436) or 120.2)(a)(437) or 120.2)(a)(438) or 120.2)(a)(439) or 120.2)(a)(440) or 120.2)(a)(441) or 120.2)(a)(442) or 120.2)(a)(443) or 120.2)(a)(444) or 120.2)(a)(445) or 120.2)(a)(446) or 120.2)(a)(447) or 120.2)(a)(448) or 120.2)(a)(449) or 120.2)(a)(450) or 120.2)(a)(451) or 120.2)(a)(452) or 120.2)(a)(453) or 120.2)(a)(454) or 120.2)(a)(455) or 120.2)(a)(456) or 120.2)(a)(457) or 120.2)(a)(458) or 120.2)(a)(459) or 120.2)(a)(460) or 120.2)(a)(461) or 120.2)(a)(462) or 120.2)(a)(463) or 120.2)(a)(464) or 120.2)(a)(465) or 120.2)(a)(466) or 120.2)(a)(467) or 120.2)(a)(468) or 120.2)(a)(469) or 120.2)(a)(470) or 120.2)(a)(471) or 120.2)(a)(472) or 120.2)(a)(473) or 120.2)(a)(474) or 120.2)(a)(475) or 120.2)(a)(476) or 120.2)(a)(477) or 120.2)(a)(478) or 120.2)(a)(479) or 120.2)(a)(480) or 120.2)(a)(481) or 120.2)(a)(482) or 120.2)(a)(483) or 120.2)(a)(484) or 120.2)(a)(485) or 120.2)(a)(486) or 120.2)(a)(487) or 120.2)(a)(488) or 120.2)(a)(489) or 120.2)(a)(490) or 120.2)(a)(491) or 120.2)(a)(492) or 120.2)(a)(493) or 120.2)(a)(494) or 120.2)(a)(495) or 120.2)(a)(496) or 120.2)(a)(497) or 120.2)(a)(498) or 120.2)(a)(499) or 120.2)(a)(500) or 120.2)(a)(501) or 120.2)(a)(502) or 120.2)(a)(503) or 120.2)(a)(504) or 120.2)(a)(505) or 120.2)(a)(506) or 120.2)(a)(507) or 120.2)(a)(508) or 120.2)(a)(509) or 120.2)(a)(510) or 120.2)(a)(511) or 120.2)(a)(512) or 120.2)(a)(513) or 120.2)(a)(514) or 120.2)(a)(515) or 120.2)(a)(516) or 120.2)(a)(517) or 120.2)(a)(518) or 120.2)(a)(519) or 120.2)(a)(520) or 120.2)(a)(521) or 120.2)(a)(522) or 120.2)(a)(523) or 120.2)(a)(524) or 120.2)(a)(525) or 120.2)(a)(526) or 120.2)(a)(527) or 120.2)(a)(528) or 120.2)(a)(529) or 120.2)(a)(530) or 120.2)(a)(531) or 120.2)(a)(532) or 120.2)(a)(533) or 120.2)(a)(534) or 120.2)(a)(535) or 120.2)(a)(536) or 120.2)(a)(537) or 120.2)(a)(538) or 120.2)(a)(539) or 120.2)(a)(540) or 120.2)(a)(541) or 120.2)(a)(542) or 120.2)(a)(543) or 120.2)(a)(544) or 120.2)(a)(545) or 120.2)(a)(546) or 120.2)(a)(547) or 120.2)(a)(548) or 120.2)(a)(549) or 120.2)(a)(550) or 120.2)(a)(551) or 120.2)(a)(552) or 120.2)(a)(553) or 120.2)(a)(554) or 120.2)(a)(555) or 120.2)(a)(556) or 120.2)(a)(557) or 120.2)(a)(558) or 120.2)(a)(559) or 120.2)(a)(560) or 120.2)(a)(561) or 120.2)(a)(562) or 120.2)(a)(563) or 120.2)(a)(564) or 120.2)(a)(565) or 120.2)(a)(566) or 120.2)(a)(567) or 120.2)(a)(568) or 120.2)(a)(569) or 120.2)(a)(570) or 120.2)(a)(571) or 120.2)(a)(572) or 120.2)(a)(573) or 120.2)(a)(574) or 120.2)(a)(575) or 120.2)(a)(576) or 120.2)(a)(577) or 120.2)(a)(578) or 120.2)(a)(579) or 120.2)(a)(580) or 120.2)(a)(581) or 120.2)(a)(582) or 120.2)(a)(583) or 120.2)(a)(584) or 120.2)(a)(585) or 120.2)(a)(586) or 120.2)(a)(587) or 120.2)(a)(588) or 120.2)(a)(589) or 120.2)(a)(590) or 120.2)(a)(591) or 120.2)(a)(592) or 120.2)(a)(593) or 120.2)(a)(594) or 120.2)(a)(595) or 120.2)(a)(596) or 120.2)(a)(597) or 120.2)(a)(598) or 120.2)(a)(599) or 120.2)(a)(600) or 120.2)(a)(601) or 120.2)(a)(602) or 120.2)(a)(603) or 120.2)(a)(604) or 120.2)(a)(605) or 120.2)(a)(606) or 120.2)(a)(607) or 120.2)(a)(608) or 120.2)(a)(609) or 120.2)(a)(610) or 120.2)(a)(611) or 120.2)(a)(612) or 120.2)(a)(613) or 120.2)(a)(614) or 120.2)(a)(615) or 120.2)(a)(616) or 120.2)(a)(617) or 120.2)(a)(618) or 120.2)(a)(619) or 120.2)(a)(620) or 120.2)(a)(621) or 120.2)(a)(622) or 120.2)(a)(623) or 120.2)(a)(624) or 120.2)(a)(625) or 120.2)(a)(626) or 120.2)(a)(627) or 120.2)(a)(628) or 120.2)(a)(629) or 120.2)(a)(630) or 120.2)(a)(631) or 120.2)(a)(632) or 120.2)(a)(633) or 120.2)(a)(634) or 120.2)(a)(635) or 120.2)(a)(636) or 120.2)(a)(637) or 120.2)(a)(638) or 120.2)(a)(639) or 120.2)(a)(640) or 120.2)(a)(641) or 120.2)(a)(642) or 120.2)(a)(643) or 120.2)(a)(644) or 120.2)(a)(645) or 120.2)(a)(646) or 120.2)(a)(647) or 120.2)(a)(648) or 120.2)(a)(649) or 120.2)(a)(650) or 120.2)(a)(651) or 120.2)(a)(652) or 120.2)(a)(653) or 120.2)(a)(654) or 120.2)(a)(655) or 120.2)(a)(656) or 120.2)(a)(657) or 120.2)(a)(658) or 120.2)(a)(659) or 120.2)(a)(660) or 120.2)(a)(661) or 120.2)(a)(662) or 120.2)(a)(663) or 120.2)(a)(664) or 120.2)(a)(665) or 120.2)(a)(666) or 120.2)(a)(667) or 120.2)(a)(668) or 120.2)(a)(669) or 120.2)(a)(670) or 120.2)(a)(671) or 120.2)(a)(672) or 120.2)(a)(673) or 120.2)(a)(674) or 120.2)(a)(675) or 120.2)(a)(676) or 120.2)(a)(677) or 120.2)(a)(678) or 120.2)(a)(679) or 120.2)(a)(680) or 120.2)(a)(681) or 120.2)(a)(682) or 120.2)(a)(683) or 120.2)(a)(684) or 120.2)(a)(685) or 120.2)(a)(686) or 120.2)(a)(687) or 120.2)(a)(688) or 120.2)(a)(689) or 120.2)(a)(690) or 120.2)(a)(691) or 120.2)(a)(692) or 120.2)(a)(693) or 120.2)(a)(694) or 120.2)(a)(695) or 120.2)(a)(696) or 120.2)(a)(697) or 120.2)(a)(698) or 120.2)(a)(699) or 120.2)(a)(700) or 120.2)(a)(701) or 120.2)(a)(702) or 120.2)(a)(703) or 120.2)(a)(704) or 120.2)(a)(705) or 120.2)(a)(706) or 120.2)(a)(707) or 120.2)(a)(708) or 120.2)(a)(709) or 120.2)(a)(710) or 120.2)(a)(711) or 120.2)(a)(712) or 120.2)(a)(713) or 120.2)(a)(714) or 120.2)(a)(715) or 120.2)(a)(716) or 120.2)(a)(717) or 120.2)(a)(718) or 120.2)(a)(719) or 120.2)(a)(720) or 120.2)(a)(721) or 120.2)(a)(722) or 120.2)(a)(723) or 120.2)(a)(724) or 120.2)(a)(725) or 120.2)(a)(726) or 120.2)(a)(727) or 120.2)(a)(728) or 120.2)(a)(729) or 120.2)(a)(730) or 120.2)(a)(731) or 120.2)(a)(732) or 120.2)(a)(733) or 120.2)(a)(734) or 120.2)(a)(735) or 120.2)(a)(736) or 120.2)(a)(737) or 120.2)(a)(738) or 120.2)(a)(739) or 120.2)(a)(740) or 120.2)(a)(741) or 120.2)(a)(742) or 120.2)(a)(743) or 120.2)(a)(744) or 120.2)(a)(745) or 120.2)(a)(746) or 120.2)(a)(747) or 120.2)(a)(748) or 120.2)(a)(749) or 120.2)(a)(750) or 120.2)(a)(751) or 120.2)(a)(752) or 120.2)(a)(753) or 120.2)(a)(754) or 120.2)(a)(755) or 120.2)(a)(756) or 120.2)(a)(757) or 120.2)(a)(758) or 120.2)(a)(759) or 120.2)(a)(760) or 120.2)(a)(761) or 120.2)(a)(762) or 120.2)(a)(763) or 120.2)(a)(764) or 120.2)(a)(765) or 120.2)(a)(766) or 120.2)(a)(767) or 120.2)(a)(768) or 120.2)(a)(769) or 120.2)(a)(770) or 120.2)(a)(771) or 120.2)(a)(772) or 120.2)(a)(773) or 120.2)(a)(774) or 120.2)(a)(775) or 120.2)(a)(776) or 120.2)(a)(777) or 120.2)(a)(778) or 120.2)(a)(779) or 120.2)(a)(780) or 120.2)(a)(781) or 120.2)(a)(782) or 120.2)(a)(783) or 120.2)(a)(784) or 120.2)(a)(785) or 120.2)(a)(786) or 120.2)(a)(787) or 120.2)(a)(788) or 120.2)(a)(789) or 120.2)(a)(790) or 120.2)(a)(791) or 120.2)(a)(792) or 120.2)(a)(793) or 120.2)(a)(794) or 120.2)(a)(795) or 120.2)(a)(796) or 120.2)(a)(797) or 120.2)(a)(798) or 120.2)(a)(799) or 120.2)(a)(800) or 120.2)(a)(801) or 120.2)(a)(802) or 120.2)(a)(803) or 120.2)(a)(804) or 120.2)(a)(805) or 120.2)(a)(806) or 120.2)(a)(807) or 120.2)(a)(808) or 120.2)(a)(809) or 120.2)(a)(810) or 120.2)(a)(811) or 120.2)(a)(812) or 120.2)(a)(813) or 120.2)(a)(814) or 120.2)(a)(815) or 120.2)(a)(816) or 120.2)(a)(817) or 120.2)(a)(818) or 120.2)(a)(819) or 120.2)(a)(820) or 120.2)(a)(821) or 120.2)(a)(822) or 120.2)(a)(823) or 120.2)(a)(824) or 120.2)(a)(825) or 120.2)(a)(826) or 120.2)(a)(827) or 120.2)(a)(828) or 120.2)(a)(829) or 120.2)(a)(830) or 120.2)(a)(831) or 120.2)(a)(832) or 120.2)(a)(833) or 120.2)(a)(834) or 120.2)(a)(835) or 120.2)(a)(836) or 120.2)(a)(837) or 120.2)(a)(838) or 120.2)(a)(839) or 120.2)(a)(840) or 120.2)(a)(841) or 120.2)(a)(842) or 120.2)(a)(843) or 120.2)(a)(844) or 120.2)(a)(845) or 120.2)(a)(846) or 120.2)(a)(847) or 120.2)(a)(848) or 120.2)(a)(849) or 120.2)(a)(850) or 120.2)(a)(851) or 120.2)(a)(852) or 120.2)(a)(853) or 120.2)(a)(854) or 120.2)(a)(855) or 120.2)(a)(856) or 120.2)(a)(857) or 120.2)(a)(858) or 120.2)(a)(859) or 120.2)(a)(860) or 120.2)(a)(861) or 120.2)(a)(862) or 120.2)(a)(863) or 120.2)(a)(864) or 120.2)(a)(865) or 120.2)(a)(866) or 120.2)(a)(867) or 120.2)(a)(868) or 120.2)(a)(869) or 120.2)(a)(870) or 120.2)(a)(871) or 120.2)(a)(872) or 120.2)(a)(873) | | | | | |

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THE LINE SHOWN ABOVE IS
EXACTLY ONE INCH LONG AT THE
BOTTOM OF THE LINE

| ELECTRICAL ABBREVIATIONS LIST | | |
|------------------------------------------------|----------|-----------------------------------------------|
| 1P 1 POLE (2P, 3P, 4P, ETC.) | M/C | MOMENTARY CONTACT |
| A AMPERE | MC | MECHANICAL CONTRACTOR |
| AC ABOVE COUNTER | MCB | MAIN CIRCUIT BREAKER |
| ACG ABOVE CEILING | MCC | MOTOR CONTROL CENTER |
| AF AMP FRAME | MDC | MAIN DISTRIBUTION CENTER |
| AFF ABOVE FINISHED FLOOR | MDF | MAIN DISTRIBUTION FRAME |
| AFO ABOVE FINISHED GRADE | MDP | MAIN DISTRIBUTION PANEL |
| AFI ARC FAULT CIRCUIT INTERRUPTER | MFR | MANUFACTURER |
| AHU AIR HANDLING UNIT | MFS | MAIN FUSED DISCONNECT SW |
| AL ALUMINUM | MH | MANHOLE |
| ALT ALTERNATE | MIC | MICROPHONE |
| AMP AMPERE | MIN | MINIMUM |
| AMPL AMPLIFIER | MISC | MISCELLANEOUS |
| ANUN ANNUNCIATOR | MLO | MAIN LUGS ONLY |
| APPROX APPROXIMATELY | MMS | MANUAL MOTOR STARTER |
| AQ-STAT/AQUASTAT | MUA | MULTIOUTLET ASSEMBLY |
| ARCH ARCHITECT, ARCHITECTURAL | MSP | MOTOR STARTER PANELBOARD |
| AS AMP SWITCH | MSB | MAIN SWITCHBOARD |
| AT AMP TRIP | MT | MOUNT |
| ATS AUTOMATIC TRANSFER SWITCH | MT-C | EMPTY CONDUIT |
| AUTO AUTOMATIC | MTS | MANUAL TRANSFER SWITCH |
| AUX AUXILIARY | MTR | MOTOR, MOTORIZED |
| AV AUDIO VISUAL | (N) | NEW |
| AWG AMERICAN WIRE GAUGE | N.C. | NORMALLY CLOSED |
| BATT BATTERY | NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION |
| BC BARE COPPER | NFDS | NON-FUSED SAFETY DISCONNECT SWITCH |
| BOARD BOARD | NIC | NOT IN CONTRACT |
| BLDG BUILDING | N.O. | NORMALLY OPEN |
| BMS BUILDING MANAGEMENT SYSTEM | NPF | NORMAL POWER FACTOR |
| C CABINET | NTS | NOT TO SCALE |
| CAT CATALOG | OH | OVERHEAD |
| CATV CABLE TELEVISION | OL | OVERLOADS |
| CB CIRCUIT BREAKER | PA | PUBLIC ADDRESS |
| CCTV CLOSED CIRCUIT TELEVISION | PB | PULL BOX OR PUSHBUTTON |
| CKT CIRCUIT | PE | PNEUMATIC ELECTRIC |
| CLG CEILING | PED | PEDESTAL |
| COMB COMBINATION | PF | POWER FACTOR |
| COMPRESSOR | PH | PHASE |
| COMM COMMUNICATION | PIV | POST INDICATING VALVE |
| CONN CONNECTION | PML | PANEL |
| CONSTR CONSTRUCTION | PP | POWER POLE |
| CONT CONTINUATION OR CONTINUOUS | PPR | PRIMARY |
| CONTR CONTRACTOR | PROJ | PROJECTION |
| CONV CONVECTOR | PT | POTENTIAL TRANSFORMER |
| CP CIRCULATING PUMP | PVC | POLYVINYL CHLORIDE (CONDUIT) |
| CRT CATHODE-RAY TUBE | PWR | POWER |
| CT CURRENT TRANSFORMER | QTY | QUANTITY |
| CTR CENTER | REQD | REQUIRED |
| CUP COPPER | RIA | RIGID STEEL CONDUIT |
| DCP DOMESTIC WATER CIRCULATING PUMP | RSC | RIGID STEEL CONDUIT |
| DEPT DEPARTMENT | RTU | ROOF TOP UNIT |
| DET DETAIL | SC | SURFACE CONDUIT |
| DIA DIAMETER | SEC | SECONDARY |
| DISC DISCONNECT | SHT | SHEET |
| DIST DISTRIBUTION | SH | SHIELD |
| DN DOWN | SIM | SIMILAR |
| DPR DAMPER | SIN | SOLID NEUTRAL |
| DS SAFETY DISCONNECT SWITCH | SPEC | SPECIFICATION |
| DT DOUBLE THROW | SPKR | SPEAKER |
| DWG DRAWING | SR | SURFACE RACEWAY |
| (E) EXISTING | SSW | STAINLESS STEEL |
| EC ELECTRICAL CONTRACTOR | STA | STATION |
| ELEC ELECTRIC, ELECTRICAL | STD | STANDARD |
| ELEV ELEVATOR | SURF | SURFACE MOUNTED |
| EM EMERGENCY | SW | SWITCH |
| EMS ENERGY MANAGEMENT SYSTEM | SWBD | SWITCHBOARD |
| EMT ELECTRICAL METALLIC TUBING | SYM | SYMMETRICAL |
| EP ELECTRICAL PNEUMATIC | SYN | SYSTEM |
| EQUIP EQUIPMENT | TEL | TELEPHONE |
| EWC ELECTRIC WATER COOLER | TEL/DATA | TELEPHONE/DATA |
| EXIST EXISTING | TERM | TERMINAL |
| EXH EXHAUST | TL | TWIST LOCK |
| EXP EXPLOSION PROOF | TR | TAMPER RESISTANT |
| (F) FUTURE | T-STAT | THERMOSTAT |
| FA FIRE ALARM | TTC | TELEPHONE TERMINAL CABINET |
| FABP FIRE ALARM BOOSTER POWER | TV | TELEVISION |
| FACP FIRE ALARM CONTROL PANEL | TVTC | TELEVISION TERMINAL CABINET |
| FCU FAN COIL UNIT | TYP | TYPICAL |
| FIXT FIXTURE | UC | UNDER COUNTER |
| FLOOR FLOOR | UE | UNDERGROUND ELECTRICAL |
| FLR FLUORESCENT | UG | UNDERGROUND |
| FU FUSE | UH | UNIT HEATER |
| FUDS FUSED SAFETY DISCONNECT SWITCH | UL | UNDERWRITER LAB |
| GA GALLON | UL | UNDERGROUND TELEPHONE |
| GAL GALVANIZED | ULV | ULTRAVIOLET |
| GC GENERAL CONTRACTOR | V | VOLT |
| GEN GENERATOR | VA | VOLT AMPERES |
| GFI GROUND FAULT CIRCUIT INTERRUPTER | VDT | VIDEO DISPLAY TERMINAL |
| GFP GROUND FAULT PROTECTOR | VERT | VERTICAL |
| G GROUND | VFD | VARIABLE FREQUENCY DRIVE |
| GRS GALVANIZED RIGID STEEL (CONDUIT) | VIE | VERIFY IN FIELD |
| GYP BD GYPSUM BOARD | VOL | VOLUME |
| HOA HANDS-OFF-AUTOMATIC SWITCH | W | WIRE |
| HORIZ HORIZONTAL | W/ | WITH |
| HP HORSEPOWER | WG | WIRE GUARD |
| HPF HIGH POWER FACTOR | WH | WATER HEATER |
| HT HEIGHT | W/O | WITHOUT |
| HTG HEATING | WP | WEATHERPROOF |
| HTR HEATER | XFR | TRANSFER |
| HV HIGH VOLTAGE | | |
| HVAC HEATING, VENTILATING AND AIR CONDITIONING | | |
| IP INTRUSION ALARM PANEL | | |
| IC INTERRUPTING CAPACITY | | |
| IDF INTERMEDIATE DISTRIBUTION FRAME | | |
| IG ISOLATED GROUND | | |
| IMC INTERMEDIATE METAL CONDUIT | | |
| IR INFRARED | | |
| IW INTERLOCK WITH | | |
| J-BOX JUNCTION BOX | | |
| KV KILOVOLT | | |
| KVA KILOVOLT-AMPERE | | |
| KVAR KILOVOLT-AMPERE REACTIVE | | |
| KW KILOWATT | | |
| KWH KILOWATT HOUR | | |
| LOC LOCATE OR LOCATION | | |
| LT LIGHT | | |
| LTG LIGHTING | | |
| LV LOW VOLTAGE | | |
| MAX MAXIMUM | | |
| MAG S MAGNETIC STARTER | | |

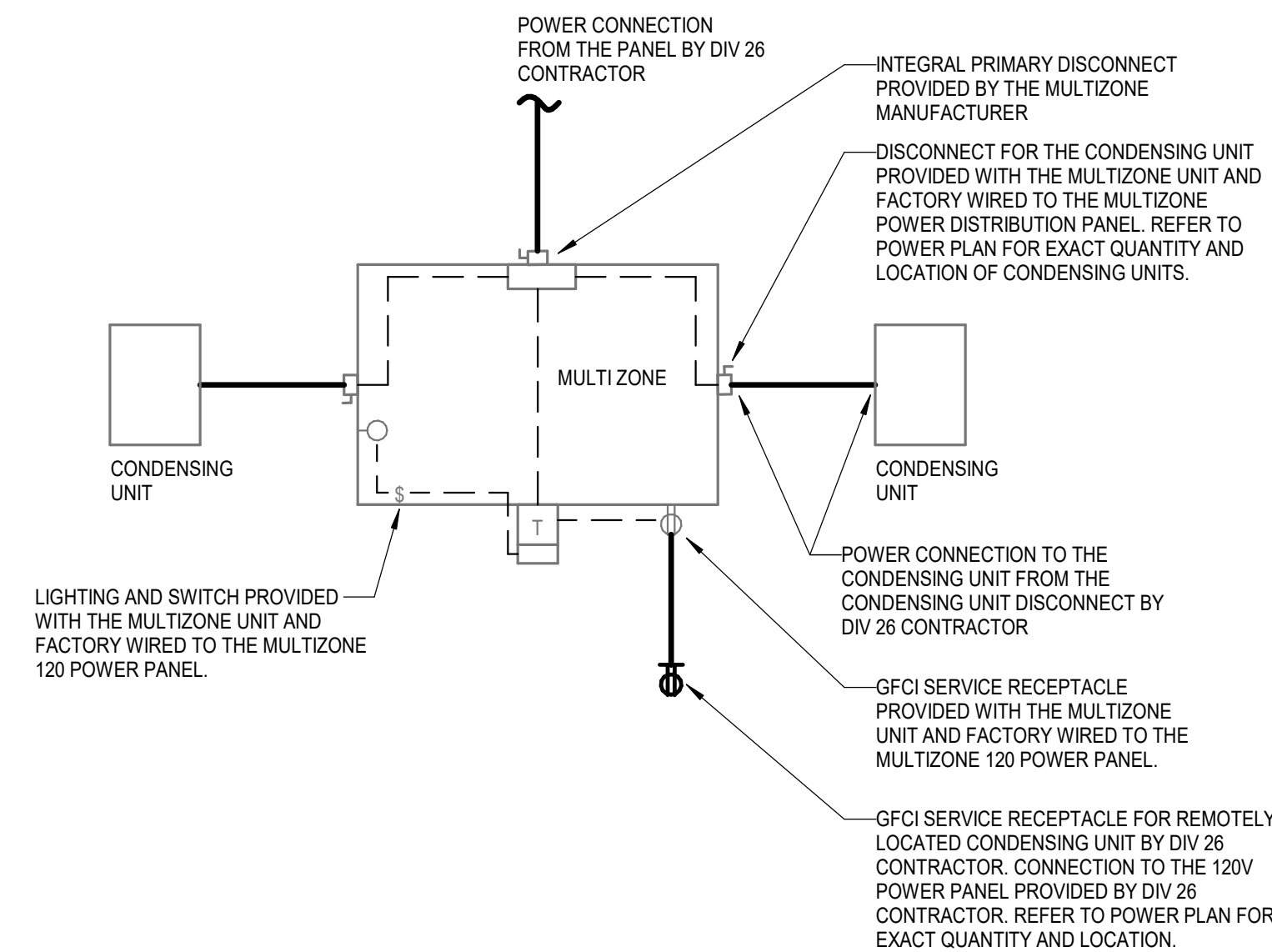
| ELECTRICAL SYMBOL LEGEND | |
|--------------------------|------------------------------------------------------------------------------|
| SYMBOL | DESCRIPTION |
| | LIGHTING FIXTURES, TYPICAL |
| | RECTANGULAR |
| | FILLED CIRCLES INDICATE RECESSED, OPEN CIRCLES INDICATE SURFACE |
| | DIAGONAL LINE INDICATES LENSED |
| | CHEVRON INDICATES WALL WASH |
| | CENTER DOT INDICATES PENDANT |
| | OUTER DOTS INDICATE SUSPENDED |
| | LIGHTING FIXTURES, TYPICAL, ROUND |
| | CHEVRON INDICATES WALL WASH |
| | WALL-MOUNTED FIXTURES, TYPICAL |
| | STRIP FIXTURE |
| | DIRECTIONAL LIGHT, TRACK, FLOOD |
| | LINEAR LIGHT, TAPE LIGHT |
| | EMERGENCY LIGHTING UNIT, WALL-MOUNTED, INTEGRAL BATTERY |
| | EMERGENCY LIGHTING UNIT, WALL-MOUNTED, REMOTE BATTERY |
| | EXIT LIGHT, CEILING-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION |
| | EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION |
| | EXIT/ELU COMBO |
| | POLE/AREA LIGHTS |
| | POST-TOP AREA LIGHT |
| | BOLLARD LIGHT |
| | DIAGONAL HATCH INDICATES LIGHT ON A CRITICAL CIRCUIT |
| | SOLID HATCH INDICATES LIGHT ON AN EMERGENCY OR LIFE SAFETY CIRCUIT |
| | SINGLE POLE SWITCH |
| | 3-WAY SWITCH |
| | 4-WAY SWITCH |
| | KEYED SWITCH |
| | SWITCH WIPILLOT |
| | DIMMER SWITCH |
| | OCCUPANCY SENSOR W/ DIMMER AND MANUAL ON/OFF SWITCH |
| | TIMER SWITCH |
| | TIME DELAY SWITCH |
| | TIME CONTROL SWITCH |
| | XX-1 MOTOR |
| | XX-1 RELOCATED |
| | XX-1 DEMOLISHED |
| | T1 TRANSFORMER |
| | BUS DUCT W/ PLUG IN DISCONNECT |
| | CABLE TAP BOX |

| SYMBOL | DESCRIPTION |
|--------|----------------------------------------------------------------------|
| | TELEPHONE OUTLET |
| | FLOOR TELEPHONE OUTLET |
| | VOICE/DATA OUTLET |
| | # OF VOICE AND # OF DATA OUTLETS, FOR EXAMPLE 1V2D = 1 VOICE, 2 DATA |
| | FLOOR DATA OUTLET |
| | CEILING DATA OUTLET |
| | MICROPHONE OUTLET |
| | CATV OUTLET |
| | TV OUTLET |
| | VOLUME CONTROL |
| | DOOR BELL |
| | DOOR BUZZER |
| | DOOR CHIME |
| | DOOR SIGNAL |
| | AUTO DOOR PUSH PAD |
| | ELECTRIC STRIKE |
| | MAGNETIC LOCK |
| | COMBINATION LOCK |
| | DOOR CONTACT |
| | CARD READER |
| | SECURITY KEYPAD |
| | MOTION DETECTOR |
| | NURSE CALL EMERG. STATION |
| | NURSE CALL CODE BLUE STATION |
| | NURSE CALL DUTY STATION |
| | NURSE CALL STAFF STATION |
| | NURSE CALL PATIENT STATION |
| | NURSE CALL DOME LIGHT (1-COLOR) |
| | NURSE CALL DOME LIGHT (2-COLORS) |
| | WIRELESS ACCESS POINT OUTLET |
| | CCTV OUTLET |

| ELECTRICAL SYMBOL NOTES | |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | LIGHTING FIXTURE TAG DESCRIPTORS: TOP VALUE: FIXTURE TYPE ID BOTTOM VALUE, NUMBER: CIRCUIT NUMBER, REFER TO DRAWINGS FOR PANEL BOTTOM VALUE, LOWERCASE LETTER: SWITCH DESIGNATION ABSENCE OF A SWITCH ID INDICATES FIXTURE IS CONTROLLED BY THE ONLY SWITCH IN THE SPACE "X" IN PLACE OF THE SWITCH ID INDICATES NIGHT LIGHT, UNSWITCHED |
| | EXIT LIGHTS: STEM INDICATES WALL MOUNTING, NO STEM INDICATES CEILING MOUNTING. SHADED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTIONAL ARROW ON ILLUMINATED FACE(S). THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: THE WALL MOUNTED EXIT LIGHT TYPE "E1" WITH SINGLE FACE AND DIRECTIONAL ARROW IS CONNECTED TO CIRCUIT 1. |
| | DEVICES: THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO CIRCUIT 1 AND ONE RECEPTACLE OUTLET IS CONTROLLED BY SWITCH "Y". |
| | THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SINGLE POLE SWITCH "Y" TO CONTROL LIGHTING FIXTURES INDICATED BY "Q". |
| | WALL BOX DIMMER WITH SIZE AS INDICATED AT DEVICE. EXAMPLE: 600 WATT WALL BOX DIMMER TO CONTROL LIGHTING FIXTURES INDICATED BY "Y". SEE SPECIFICATIONS FOR WATTAGE IF NOT INDICATED. |
| | SPECIAL CONNECTIONS: THE EQUIPMENT IS INDICATED BY A NUMBER IN A CIRCLE. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE LOAD DESCRIPTION AND TYPE OF CONNECTION. THE CIRCUIT DESIGNATION IS INDICATED BY NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: EQUIPMENT NO. ELEC-1, 1 PHASE CONNECTION TO CIRCUITS 2, 4. |
| | PANELBOARDS: PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DECESSION CODES. |
| | FLOOR CLEARANCE AREA |
| | MOTOR CONNECTIONS: THE MOTOR IS INDICATED BY A NUMBER WITHIN OR CHARACTERS ADJACENT TO THE MOTOR SYMBOL. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE MOTOR DESCRIPTION AND ELECTRICAL REQUIREMENTS. |
| | TRANSFORMERS: THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "T". SEE THE TRANSFORMER SCHEDULE OR THE SINGLE LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS. EXAMPLE: TRANSFORMER TYPE "T1". |
| | CONDUIT IN CEILING, FLOOR OR WALL AS REQUIRED BY FIELD CONDITIONS |
| | CONDUIT IN FLOOR |
| | CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 1 # 12 CONDUCTOR PER PHASE, NEUTRAL, AND GROUND IN 3/4" CONDUIT UNLESS SPECIFIC EQUIPMENT WARRANTS A DIFFERENT SIZE. |
| | CONDUIT SHOWN SHALL CONTAIN 1 # 10 CONDUCTOR PER PHASE IN ELECTRICAL CODE SIZED MINIMUM CONDUIT UNLESS A CONDUCTOR AND CONDUIT SIZE IS SHOWN ADJACENT. |
| | HOME RUN TO BRANCH CIRCUIT PANELBOARD: THE PANELBOARD DESIGNATION IS SHOWN ADJACENT TO THE HOME RUN ARROW AS A NUMERATOR AND THE CIRCUIT DESIGNATION IS SHOWN AS THE DENOMINATOR. CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SHOWN IN THE PANELBOARD SCHEDULE WITH THE CORRESPONDING PANELBOARD AND CIRCUIT DESIGNATION. EXAMPLE: HOME RUN TO PANELBOARD P4N-102; CIRCUITS 1, 3, 5. |
| | EXISTING CONDUIT TO REMAIN |
| | EXISTING CONDUIT TO BE REMOVED |

| MEP COMPONENT ANCHORAGE NOTE | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 29 AND 30. | |
| 1. ALL PERMANENT EQUIPMENT AND COMPONENTS. 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. PERMANENTLY ATTACHED: SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING FLEXIBLE CABLE. 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE RETAINED WITH TEMPORARY ATTACHMENTS. | |
| THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. | |
| A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL. | |
| FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS. | |
| PIPING, DUCTWORK, & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE | |
| PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26. | |
| THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PREAPPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. | |
| MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP □ MD □ PP □ E ∞ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS MP □ MD □ PP □ E □ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) # _____ AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS. | |

| ELECTRICAL SHEET INDEX | |
|------------------------|-------------------------------------------------------|
| SHEET NUMBER | SHEET NAME |
| E4.01 | ELECTRICAL LEGEND AND NOTES |
| E4.10A | ELECTRICAL ROOF DEMOLITION PLAN - ADMINISTRATION BLDG |
| E4.10B | ELECTRICAL ROOF DEMOLITION PLAN - CLASSROOM BLDG |
| E4.11A | ELECTRICAL ROOF PLAN - ADMINISTRATION BLDG |
| E4.11B | ELECTRICAL ROOF PLAN - CLASSROOM BLDG |



| | |
|-------|-----------------------------------|
| 1 | TYPICAL MULTI ZONE WIRING DIAGRAM |
| E0.01 | SCALE: NONE |

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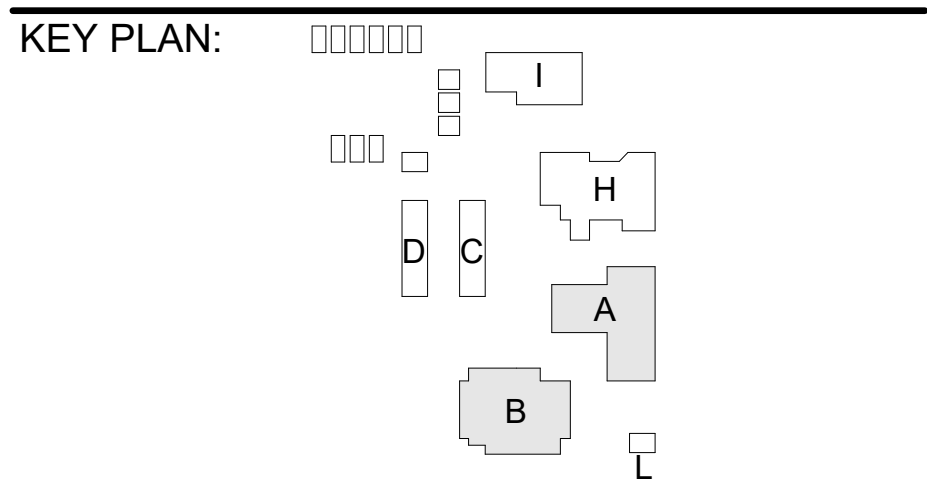
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PM - DESIGN TEAM PROJECT NO.



FACILITY:

8405 TAM O'SHANter DR.
STOCKTON, CA 95210

PROJECT:
LODI USD PARKLANE ES HVAC REPLACEMENT

SHEET NAME:
ELECTRICAL LEGEND AND NOTES

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

SHEET:

E0.01

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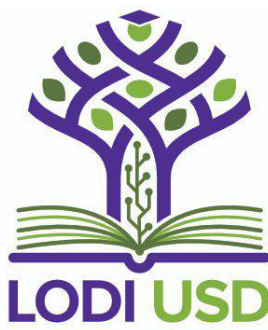
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KEYNOTES

- 1 DISCONNECT AND REMOVE (E) DISCONNECT SWITCH. PROTECT EXISTING BRANCH CIRCUIT CONDUIT AND WIRING TO BE REUSED IN THE RENOVATION PLAN. SEE RENOVATION PLAN FOR MORE INFORMATION.
- 2 PROTECT IN PLACE (E) TRANSFORMER
- 3 EXISTING DUCT SMOKE DETECTOR TO BE REMOVED AND REINSTALLED. PRESERVE EXISTING FIRE ALARM CONNECTION TO BE REUSED ON THE RENOVATION PLAN.

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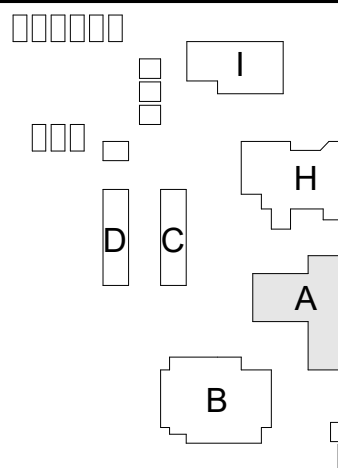
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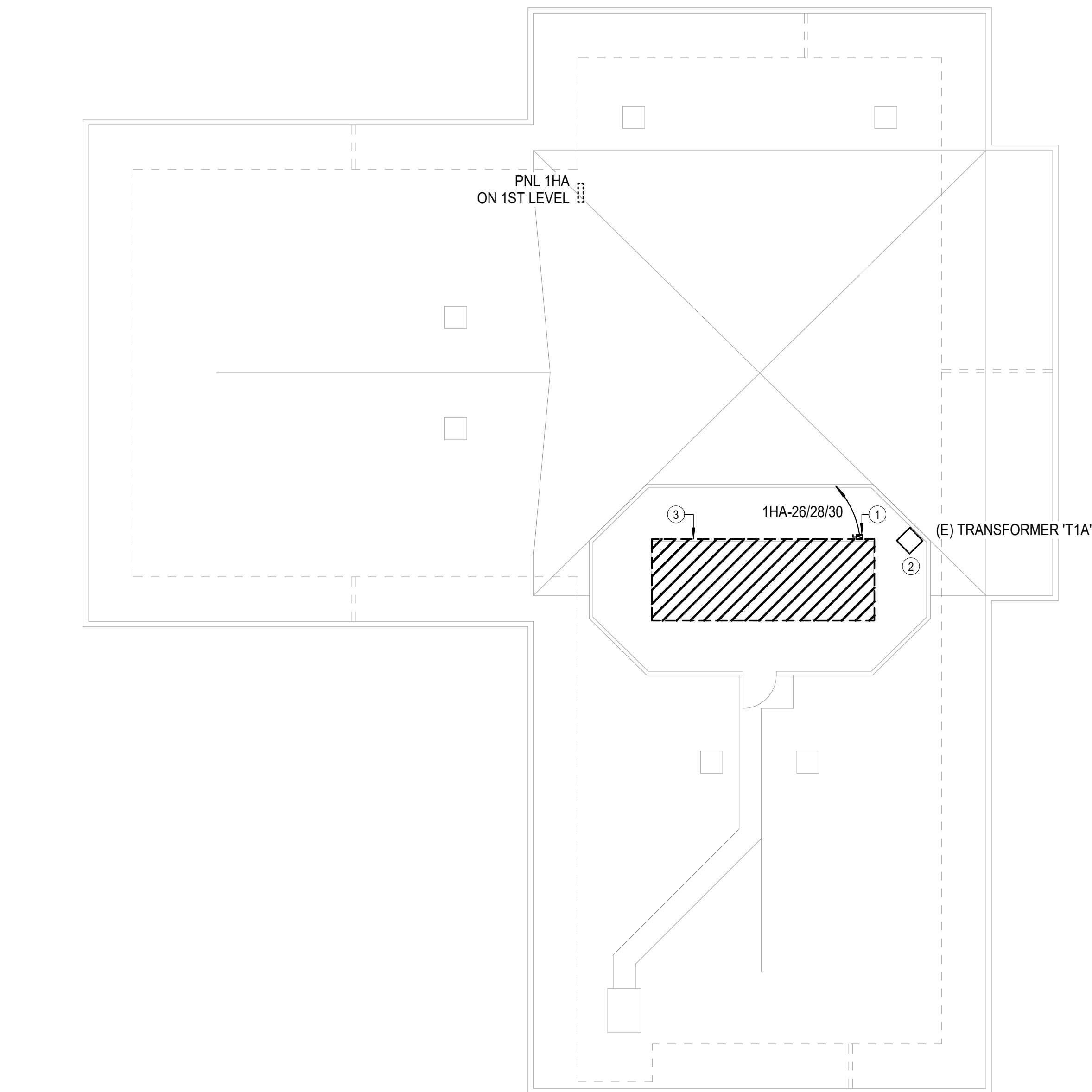
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ELECTRICAL ROOF DEMOLITION PLAN -
ADMINISTRATION BLDG

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

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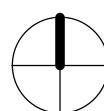
E4.10A



1
E4.10A

ELECTRICAL ROOF DEMOLITION PLAN - ADMINISTRATION BLDG

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



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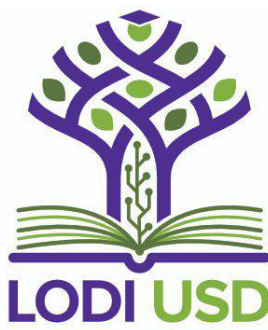
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- 1 DISCONNECT AND REMOVE (E) DISCONNECT SWITCH. PROTECT EXISTING BRANCH CIRCUIT CONDUIT AND WIRING TO BE REUSED IN THE RENOVATION PLAN. SEE RENOVATION PLAN FOR MORE INFORMATION.
- 2 EXISTING DUCT SMOKE DETECTOR TO BE REMOVED AND REINSTALLED. PRESERVE EXISTING FIRE ALARM CONNECTION TO BE REUSED ON THE RENOVATION PLAN.

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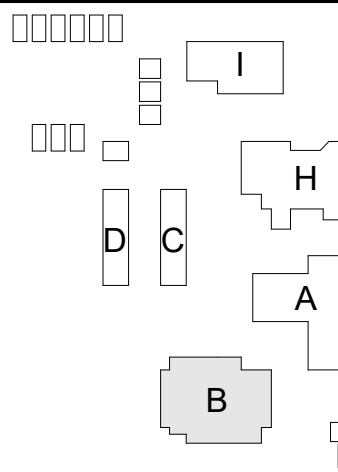
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PROJECT:
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SHEET NAME:
ELECTRICAL ROOF DEMOLITION PLAN - CLASSROOM
BLDG

CONSTRUCTION DOCUMENTS

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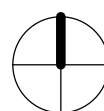
SHEET:

E4.10B

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E4.10B

ELECTRICAL ROOF DEMOLITION PLAN - CLASSROOM BLDG

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



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SCALE AND ORIENTATION

KEYNOTES

- INTERCEPT AND EXTEND (E) BRANCH CIRCUIT CONDUIT AND CONDUCTORS TO THE MULTI ZONE AIR HANDLER INTEGRAL PRIMARY DISCONNECT SWITCH
- PROVIDE POWER CONNECTION FROM EACH CONDENSING UNIT TO THE FACTORY SUPPLIED DISCONNECT SWITCH. USE 3/4" C - 3/12, #10G. SEE DETAIL 5 ON MECHANICAL SHEET M5.03 FOR PIPE SUPPORT ON ROOF - MOUNTING DETAIL. REFER TO DETAIL 1 ON SHEET E3.01 FOR ADDITIONAL INFORMATION.
- REPLACE EXISTING 90A3P CIRCUIT BREAKER WITH NEW 60A3P. EQUIPMENT AND CIRCUIT INFORMATION AS FOLLOWS:
* AC-2 => MZ-3; 1HB-32/34/36
* AC-3 => MZ-3; 1HB-38/40/42
- CONNECT NEW SERVICE RECEPTACLE TO THE LOAD SIDE FACTORY SUPPLIED GFCI SERVICE RECEPTACLE PROVIDED BY THE MZ MANUFACTURER. USE 120V - 2P/2, #10G.
- REINSTALL PRESERVED DUCT SMOKE DETECTOR. RECONNECT TO THE PRESERVED CONNECTION FROM THE EXISTING FIRE ALARM SYSTEM. CONNECT TO THE NEW MULTI-ZONE UNIT FOR AUTOMATIC SHUTOFF.

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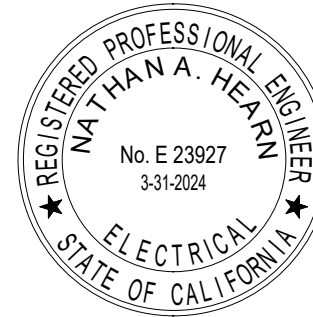
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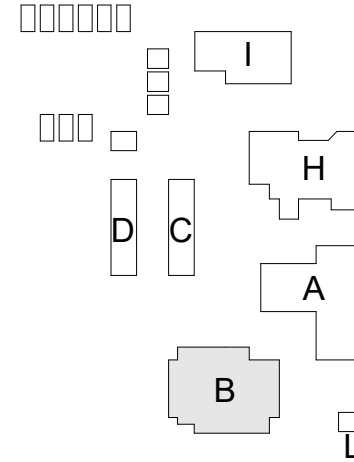
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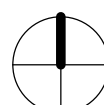
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SHEET NAME:
ELECTRICAL ROOF PLAN - CLASSROOM BLDG

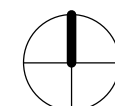
CONSTRUCTION DOCUMENTS

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SHEET:



KEY PLAN



E4.11B

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1 ELECTRICAL ROOF PLAN - CLASSROOM BLDG
E4.11B SCALE: 1/8" = 1'-0"