

EXHIBIT E

CONSTRUCTION DRAWINGS

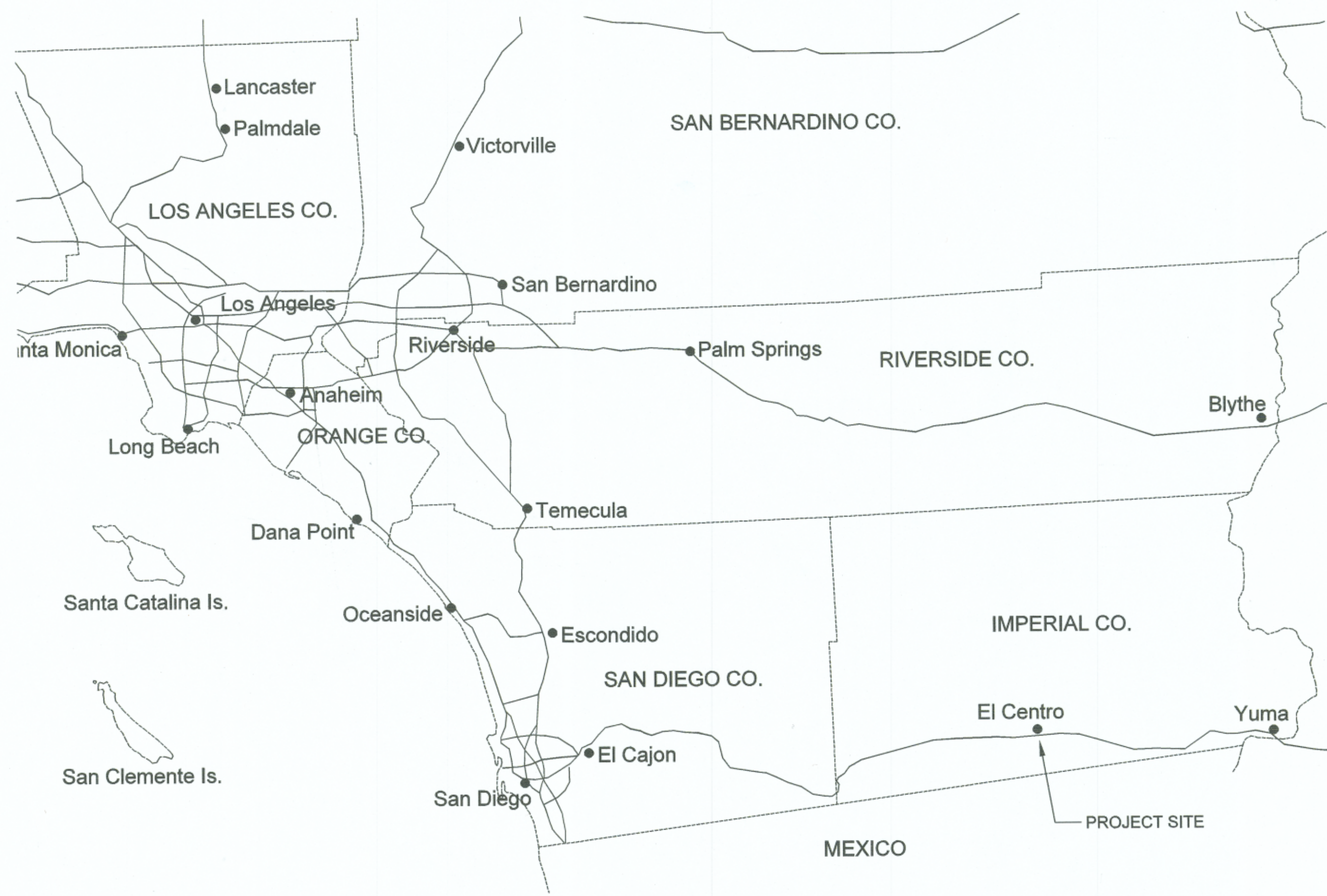
**COUNTY OF IMPERIAL PUBLIC HEALTH LAB
OSA AIR CONDITIONER REPLACEMENT PROJECT
LOCATED AT
935 BROADWAY, EL CENTRO, CA 92243

COUNTY PROJECT NO. SR6983HTH**

IMPERIAL COUNTY HEALTH CLINIC AC UNIT REPLACEMENT

935 BROADWAY STREET
EL CENTRO, CA

VICINITY MAP



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| 3 | M101 | MECHANICAL FLOOR PLAN DEMOLITION |
| 4 | M102 | MECHANICAL ROOF PLAN DEMOLITION |
| 5 | M201 | MECHANICAL FLOOR PLAN NEW WORK |
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IMPERIAL COUNTY HEALTH CLINIC

AC UNIT REPLACEMENT

935 BROADWAY STREET

EL CENTRO, CA

CITY OF EL CENTRO
BUILDING AND SAFETY DEPARTMENT

REVIEWED FOR CODE COMPLIANCE

THESE PLANS HAVE BEEN REVIEWED FOR CONFORMANCE WITH THE CITY OF EL CENTRO BUILDING DEPARTMENT ORDINANCES AND THE CALIFORNIA BUILDING CODE. ANY VIOLATIONS OF THE CODE MUST BE CORRECTED. THIS REVIEW DOES NOT CONSTITUTE A GUARANTEE OF THE ACCURACY OF THE PLANS OR THE QUALITY OF THE WORKMANSHIP. THE APPLICANT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR COMPLYING WITH ALL APPLICABLE CODES AND ORDINANCES.

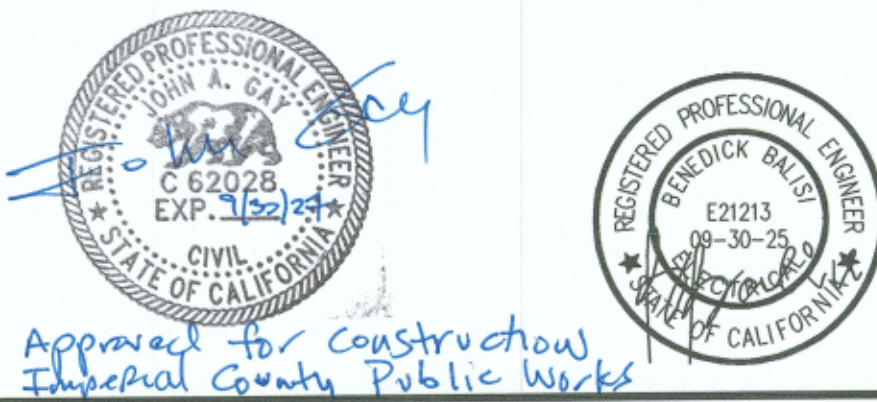
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| JOB NO. | | |
| DATE: | | |
| ISSUED | | |
| No. | Description | Date |
| 1 | FINAL SUBMITTAL | 5/28/25 |
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| REVISIONS | | |
| No. | Description | Date |
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| DESIGNED BY: | | JRE |
| CHECKED BY: | | MR |
| DATE: | | |
| DRAWING TITLE | | |
| COVER SHEET | | |
| SHEET NO. | | |
| G001 | | |



EPI THE ENGINEERING PARTNERS, INC.
CONSULTING ENGINEERS
10150 MEANLEY DRIVE, SUITE 200
SAN DIEGO, CA 92131
(619) 824-1761 FAX (619) 824-1768
EPI PROJECT #: 120-486E

MECHANICAL LEGEND (SYMBOLS) AND ABBREVIATIONS

| VALVES AND FITTINGS | | PIPING | SYMBOLS | |
|---------------------|------------------------------|--------------------------------|---------|---|
| | BALL VALVE | RL — REFRIGERANT LIQUID | | SQUARE DIFFUSER / REGISTER A = DESIGNATION B = TOTOL DESIGN (FUTURE) AIRFLOW C = TOTAL CURRENT AIRFLOW |
| | CHECK VALVE | RS — REFRIGERANT SUCTION | | EQUIPMENT TAG A = TYPE B = EQUIPMENT NUMBER / UNIQUE IDENTIFIER |
| | BACKFLOW PREVENTOR | RG — REFRIGERANT GAS | | SUPPLY DIFFUSER THROW DIRECTION AS INDICTED ON PLANS (4-WAY IF NONE INDICATED) |
| | GATE VALE | HWS — HEATING HOT WATER SUPPLY | | RETURN GRILLE |
| | PRESSURE REDUCING VALVE | HWR — HEATING HOT WATER RETURN | | EXHAUST GRILLE |
| | CONTROL VALVE | CHWS — CHILLED WATER SUPPLY | | DETAIL/SHEET REFERENCE (DETAIL "A" ON DRAWING "B") |
| | CALIBRATED BALANCING VALVE | CWSR — CHILLED WATER RETURN | | SECTION OR ELEVATION REFERENCE (SECTION "A" ON DRAWING "B") |
| | BUTTERFLY VALVE | CWS — CONDENSER WATER SUPPLY | | SUPPLY DUCT SECTION |
| | PLUG VALVE | CWR — CONDENSER WATER RETURN | | RETURN DUCT SECTION |
| | GLOBE VALVE | STM — PLANT STEAM | | EXHAUST DUCT SECTION |
| | AUTOMATIC FLOW CONTROL VALVE | CN — CONDENSATE RETURN | | REMOVE EXIST. EQUIP. OR PIPES SHOWN HATCHED |
| | TRIPLE DUTY VALVE | FW — FEEDWATER (STEAM) | | DUCT RISE (IN DIRECTION OF ARROW/FLOW) |
| | SOLENOID VALVE | SW — SOFTWATER | | DUCT DROP (IN DIRECTION OF ARROW/FLOW) |
| | STEAM TRAP | D — DRAIN | | DUCT WITH SOUND INSULATION/LINING |
| | SMOKE DUCT DETECTOR | CSTM — CLEAN STEAM | | CONNECT TO EXISTING EQUIPMENT, DUCTWORK, PIPING |
| | BLIND FLANGE | CCA — CLEAN COMPRESSED AIR | | LIMITS OF DUCTWORK, PIPING DISCONNECTION |
| | TRICLAMP | PIPE DOWN | | FIRE SMOKE DAMPER (FSD) |
| | PIPE CAP (THREADED) | PIPE UP | | ROOM SENSOR (ASSOCIATED MECHANICAL UNIT) |
| | PIPE CAP (WELDED) | PIPE DOWN | | |
| | UNION | CD — CONDENSATE DRAIN | | |
| | REDUCER | | | |
| | STRAINER | | | |
| | THERMOMETER | | | |
| | PRESSURE GAUGE | | | |
| | RELIEF VALVE | | | |
| | AUTOMATIC AIR VENT | | | |
| | FLEXIBLE PIPE CONNECTION | | | |

| ABBREVIATIONS | | | |
|---------------|-------------------------------|--------|--|
| A/C | AIR CONDITIONING | FA | FREE AREA IN SQUARE FEET |
| ABS | ABSOLUTE | FC | FAIL CLOSED; FLEXIBLE CONNECTION |
| AFF | ABOVE FINISHED FLOOR | FLA | FULL LOAD AMPS |
| AFG | ABOVE FINISHED GRADE | FLX | FLEXIBLE CONNECTION |
| ALUM. | ALUMINUM | FPM | FEET PER MINUTE |
| AMPS | AMPERES | FPS | FEET PER SECOND |
| AP | ACCESS PANEL | FSD | FIRE SMOKE DAMPER |
| ATM. | ATMOSPHERE | GAL | GALLON |
| AUTO. | AUTOMATIC | GALV | GALVANIZED |
| BAS | BUILDING AUTOMATION SYSTEM | GE | GENERAL EXHAUST |
| BHP | BRAKE HORSE POWER | GPH | GALLON PER HOUR |
| B/G | BELOW GRADE | GPM | GALLON PER MINUTE |
| BTU | BRITISH THERMAL UNIT | HP | HORSE POWER |
| CFM | CUBIC FEET PER MINUTE | HVAC | HEATING VENTILATING AND AIR-CONDITIONING |
| COND OR CD | CONDENSATE DRAIN | HZ | HERTZ |
| DB | DRY BULB | IN | INCHES |
| DDC | DIRECT DIGITAL CONTROL | IN WG | INCHES OF WATER GAUGE |
| DIA | DIAMETER | K.W. | KILOWATTS |
| DN | DOWN | LAT | LEAVING AIR TEMPERATURE |
| DTR | DOWN THROUGH ROOF | LDB | LEAVING DRY BULB TEMPERATURE |
| E OR (E) | EXISTING | LWB | LEAVING WET BULB TEMPERATURE |
| EA | EXHAUST AIR | LWT | LEAVING WATER TEMPERATURE |
| EAT | ENTERING AIR TEMPERATURE | LPG | LOW PRESSURE GAS (NATURAL GAS) |
| EDB | ENTERING DRY BULB TEMPERATURE | MA | MAKEUP AIR |
| ETR | EXISTING TO REMAIN | NC | NORMALLY CLOSED |
| ESP | EXTERNAL STATIC PRESSURE | NO | NORMALLY OPEN |
| EWB | ENTERING WET BULB TEMPERATURE | N.I.C. | NOT IN CONTRACT |
| EWT | ENTERING WATER TEMPERATURE | NTS | NOT TO SCALE |

MECHANICAL PLAN CHECK NOTES

- CALIFORNIA MECHANICAL CODE (CMC) 2022, CALIFORNIA PLUMBING CODE (CPC) 2022 AND 2022 TITLE 24 ENERGY STANDARDS ARE THE CODES/STANDARDS THAT ARE APPLICABLE TO THIS PROJECT.
- SEE TITLE 24 CALCULATION FORMS NRCC-ENV-E FOR INSULATION AND MATERIAL ASSEMBLY OF WALL, ROOF AND FLOOR. SEE ARCHITECTURAL DRAWINGS FOR MATERIAL ASSEMBLY SECTIONS ON PLANS.
- ALL INSULATION MATERIAL SHALL COMPLY WITH THE CMC SECTION 602.2. FLAME SPREAD-RATING OR 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS.
- HVAC PIPING AND DUCTWORK SYSTEMS SHALL BE INSULATED WITH MATERIALS CONSISTENT WITH THE REQUIREMENTS OF SECTIONS 110.8, 120.3, AND 120.4 OF THE CALIFORNIA ENERGY EFFICIENCY STANDARDS, AND 2022 CALIFORNIA MECHANICAL CODE (CMC) CHAPTER 6, TABLE 6-D. FLAME SPREAD-RATING OR 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS.
- ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTIONS 110.1-110.3, 110.5 AND 120.1-120.9 OF THE CALIFORNIA ENERGY EFFICIENCY STANDARDS.
- HVAC SYSTEMS AUTOMATIC CONTROLS SHALL COMPLY WITH THE CONTROL REQUIREMENTS PER SECTIONS 110.2 AND 120.2 OF THE CALIFORNIA ENERGY EFFICIENCY STANDARDS.
- ALL MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS, FLEXIBLE DUCTS AND DUCT INSULATION SHALL COMPLY WITH CMC SECTION 602.2 AND SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50.
- ALL DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 110.6 AND 110.7 OF THE CALIFORNIA ENERGY EFFICIENCY STANDARDS.
- AT THE TIME OF PERMIT ISSUANCE, THE PERMITEE WILL PROVIDE AN APPROVED COPY OF THE CERTIFICATE OF COMPLIANCE (MECH-1) TO THE JURISDICTION FOR FILING.
- PROVIDE SMOKE DETECTORS ON AIR MOVING SYSTEMS EXCEEDING 2000 CFM AT SUPPLY AIR DUCTS. (2022 CMC 608.1)
- FIRE AND/OR SMOKE DAMPER ASSEMBLIES, INCLUDING SLEEVES, AND INSTALLATION PROCEDURES SHALL BE APPROVED BY THE BUILDING INSPECTOR PRIOR TO INSTALLATION.
- ALL WATER HEATERS/ BOILERS SHALL BE STRAPPED OR ANCHORED PER SEC. 510.5 OF THE CPC TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION.
- AIR FILTERS SHALL BE A STATE FIRE MARSHALL APPROVED AND LISTED TYPE. PRE-FORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE CLASS 1 OR 2 (AS SHOWN IN THE STATE FIRE MARSHALL LISTING). AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT. (305.0 CMC)
- CERTIFICATE OF ACCEPTANCE AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.
- PENETRATIONS IN FIRE-RESISTIVE WALLS, PARTITIONS AND FLOORS WHERE PROTECTED OPENINGS ARE REQUIRED SHALL BE FIRE STOPPED USING APPROVED MATERIALS, SECURELY INSTALLED AND CAPABLE OF MAINTAINING THEIR INTEGRITY AND PREVENTING THE MOVEMENT OF HOT FLAMES OR GASES THROUGH THE VOID SPACES BETWEEN PENETRATING MATERIALS AND WALLS, PARTITIONS AND FLOORS WHEN TESTED IN ACCORDANCE WITH ASTM STANDARD E-814 OR UL STANDARD 1479. PROVIDE DESIGN DETAILS ON DRAWINGS DEPICTING APPROVED (LISTED) METHODS AND MATERIALS USED TO PROTECT PENETRATIONS IN WALLS, PARTITIONS AND FLOORS.
- FACTORY-MADE FLEXIBLE AIR DUCTS AND CONNECTORS SHALL NOT BE MORE THAN 5 FEET IN LENGTH PER SECTION 603.4.1 CMC.
- ROOF ACCESS LADDER SHALL COMPLY WITH SECTION 304 CMC.

MECHANICAL CAL GREEN NOTES

- THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING OR AREAS OF ADDITION OR ALTERATION WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30% BASED ON ASHRAE 52.1-1992 SHALL BE USED. ALL FILTERS SHALL BE REPLACED IMMEDIATELY PRIOR TO OCCUPANCY OR AT THE CONCLUSION OF CONSTRUCTION. (CAL GREEN SEC: 5.504.1.3)
- AT TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM. (CAL GREEN SEC: 5.504.3)
- IN MECHANICALLY VENTILATED BUILDINGS, REGULARLY OCCUPIED AREAS OF THE BUILDING SHALL BE PROVIDED WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13. MERV 13 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL. (CAL GREEN SEC: 5.504.5.3)
- FOR ALL BUILDINGS EQUIPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF 2022 CALIFORNIA ENERGY CODE, SECTION 120(C)(4). (CAL GREEN SEC: 5.506.2)
- WALL AND ROOF-CEILING ASSEMBLIES EXPOSED TO THE NOISE SOURCE MAKING UP THE BUILDING OR ADDITION ENVELOPE OR ALTERED ENVELOPE SHALL MEET A COMPOSITE STC RATING OF AT LEAST 50 OR A COMPOSITE OITC RATING OF NOT LESS THAN 40, WITH EXTERIOR WINDOWS OF A MINIMUM STC OF 40 OR OITC OF 30 IF LOCATED WITHIN THE 65 CNEL NOISE CONTOUR OF AN AIRPORT OR WITHIN 65 CNEL OR L DN NOISE CONTOUR OF A FREEWAY OR EXPRESSWAY, RAILROAD, INDUSTRIAL SOURCE OR FIXED-GUIDEWAY SOURCE AS DETERMINED BY THE NOISE ELEMENT OF THE GENERAL PLAN. (SEC: 5.507.4.1 CGBSC, SEE EXCEPTIONS 1 & 2 ON SEC: 5.507.4.1.
- INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2. HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CHLOROFLUOROCARBONS (CFCs) AND SHALL NOT CONTAIN HALONS. (SEC: 5.508.1)
- PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142 AND OTHER RELATED REGULATIONS.
- PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH INDUSTRY BEST PRACTICES AND APPLICABLE NATIONAL STANDARDS ON EACH SYSTEM. (CG 5.410.3).BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, THE SYSTEM SHALL BE BALANCED IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING, ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS; THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS; OR ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS. (CG 5.410.4.3.1) AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING (TAB), PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES. (CG 5.410.4.4)

HVAC GENERAL NOTES

- CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BID. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES (INCLUDING CIVIL, STRUCTURAL, AND ELECTRICAL) PRIOR TO BID TO ENSURE AN ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.
- CONTRACTOR SHALL VERIFY ALL EQUIPMENT MODEL NUMBERS, CAPACITIES, SIZES, VOLTAGES, AND ALL OTHER SCHEDULED INFORMATION WITH ALL OTHER APPLICABLE TRADES AND WITH THE MANUFACTURER PRIOR TO INSTALLATION.
- CONTRACTOR SHALL VERIFY ALL LOCATIONS, SIZES, POCs, AND AVAILABILITY OF ALL EXISTING ITEMS (I.E.: OUTSIDE AIR, CWS & CWR, EXHAUST ETC.) PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
- THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL NECESSARY OFFSETS OF DUCTWORK AND PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD AFFECT THE SYSTEM PERFORMANCE OR WHICH WOULD INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE MADE PRIOR TO THE INSTALLATION OF THE ITEMS CONCERNED.
- NEW AND/OR EXISTING EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EQUIPMENT LOCATIONS, POCs AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. IN ALL CASES, ADEQUATE ACCESS (PER MANUFACTURER'S RECOMMENDATIONS AND CODE COMPLIANCE) FOR MAINTENANCE AND REPLACEMENT OF EQUIPMENT SHALL BE PROVIDED.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN IN THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATION OF CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO THE MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE INSTALLATION AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORM TO MANUFACTURER'S INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
- ALL HVAC EQUIPMENT, MATERIAL, AND ALL CONNECTION THERETO SHALL BE INSTALLED COMPLETE PER MANUFACTURER'S INSTRUCTIONS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
- DUCT SIZES INDICATED ON DRAWINGS ARE INSIDE NET CLEARANCE DIMENSIONS.
- CONTRACTOR MAY, AT HIS OPTION, REVISE DUCTWORK SIZING AND ROUTING TO ALLOW FOR INSTALLATION IN THE AVAILABLE SPACE. DUCTWORK THAT IS RESIZED MUST MAINTAIN THE SAME CROSS-SECTIONAL AREA. FLEX DUCT IS LIMITED TO A MAXIMUM OF 5' AT EACH REGISTER.
- ALL NEW SUPPLY, RETURN, AND EXHAUST (AIR DISTRIBUTION) GRILLES, REGISTERS, AND DIFFUSERS SHALL MATCH (IF APPLICABLE) EXISTING, AND BE APPROVED BY ARCHITECT. THE MAXIMUM NOISE NC LEVEL SHALL BE 35.
- ALL SUPPLY, RETURN, AND EXHAUST REGISTER CONNECTIONS TO DUCTWORK SHALL BE PROVIDED WITH ACCESSIBLE MANUAL VOLUME DAMPERS. ALTERNATIVELY, ACCESSIBLE MANUAL VOLUME DAMPERS MAY BE PROVIDED IN DUCT WORK FEEDER LINES SERVING INDIVIDUAL REGISTERS.
- SUBSTITUTION OF HVAC EQUIPMENT WITH EFFICIENCIES LOWER THAN THOSE INDICATED ON THE PLANS MAY REQUIRE RECALCULATION OF TITLE 24 DOCUMENTS. IF THE CONTRACTOR CHOOSES TO UTILIZE SUCH EQUIPMENT, HE ASSUMES FULL RESPONSIBILITY FOR THE RECALCULATION AND JURISDICTIONAL APPROVAL OF TITLE 24 DOCUMENTS.
- IF THE CONTRACTOR'S USE OF SUBSTITUTE MATERIALS, EQUIPMENT, OR METHODS OF INSTALLATION REQUIRES ANY CHANGES IN OTHER TRADES' WORK FROM THAT SHOWN ON THE DRAWINGS, THE EXTRA COST OF THE OTHER TRADES WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INITIATING THE SUBSTITUTION.
- SUBMITTALS: APPROVAL OF SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.
- WHERE NONMETALLIC PIPING PENETRATES AREA SEPARATION WALLS, THE PIPE SECTION PASSING THROUGH THE WALLS AND THE FIXTURE CONNECTIONS THERETO SHALL BE OF METAL ONLY.
- NO RANGE HOODS, DRYER VENTS, COMBUSTION VENTS, OR HEATING DUCTS ARE PERMITTED IN AREA SEPARATION WALLS.
- A. CONTRACTOR TO VERIFY LOCATION OF FIRE AND FIRE/SMOKE BARRIER WALLS WITH ARCHITECT PRIOR TO FIRE AND/OR SMOKE DAMPER, DETECTOR AND ACTUATOR INSTALLATION.
B. ALL CEILING FIRE DAMPERS TO BE ONE (1) HOUR U.L. AND C.S.F.M. APPROVED.
C. ALL FIRE RATED WALLS SHALL BE PROVIDED WITH U.L. AND C.S.F.M. APPROVED SMOKE/FIRE DAMPERS (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.
D. ALL SMOKE BARRIER WALLS SHALL BE PROVIDED WITH U.L. AND C.S.F.M. APPROVED SMOKE/FIRE DAMPERS (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.
E. ALL PENETRATIONS OF ONE (1) HOUR CORRIDOR WALLS AND CEILINGS THAT WOULD REQUIRE THE INSTALLATION OF A FIRE DAMPER SHALL BE APPROVED WITH A U.L. AND C.S.F.M. APPROVED COMBINATION SMOKE/FIRE DAMPER, (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.
F. PROVIDE ALL FIRE & SMOKE DAMPERS WITH ACCESS DOORS AS NECESSARY.

DESIGN CRITERIA FOR TB LAB

OUTDOOR DESIGN CONDITIONS

SUMMER DRY BULB: 115F
SUMMER WET BULB: 75F
WINTER DRY BULB: 20F

INDOOR DESIGN CONDITIONS

INDOOR DESIGN TEMPERATURE: 72F +/- 2F
RELATIVE HUMIDITY: NOT CONTROLLED

PRESSURIZATION

NEGATIVE TO ADJACENT SPACES

PLUMBING FIXTURE SCHEDULE

| MARK | DESCRIPTION | MINIMUM PIPE CONNECTION (INCHES) | | | | MANUFACTURER / MODEL NUMBER | REMARKS |
|--------|--------------|----------------------------------|----|-------|------|---|---------|
| | | CW | HW | WASTE | VENT | | |
| (RH-1) | ROOF HYDRANT | 3/4 | - | - | - | ZURN MODEL Z1388 EXPOSED HEAD, NON-FREEZE ROOF HYDRANT WITH VACUUM BREAKER, ANCHORING FLANGE AND CLAMP COLLAR | |

PACKAGED GAS/ DX 100% OSA UNIT SCHEDULE

| PLAN MARK | MANUFACTURER & MODEL NO. | LOCATION | SERVICE | NOMINAL CAPACITY (TONS) | SUPPLY FAN | | DX COOLING COIL | | | | | | SYSTEM EFFICIENCY SEER (EER) | COMPRESSOR | | GAS HEATING | | | | | | ELECTRICAL DATA | | | OPER. WT. (LBS.) | REMARKS |
|-----------|--------------------------|----------|---------|-------------------------|---------------|-------------|------------------|----------------|--------------|------------|-------------|------------|------------------------------|------------|----------|-------------|-------------|-------------|-------------------------|------------------------|------------------|-----------------|------|----------|------------------|---------|
| | | | | | AIRFLOW (CFM) | ESP (IN WG) | COOLING CAPACITY | | ENTERING AIR | | LEAVING AIR | | | TYPE | QUANTITY | AFUE (%) | INPUT (MBH) | OUPUT (MBH) | ENTERING AIR DB (DEG F) | LEAVING AIR DB (DEG F) | MINIMUM TURNDOWN | MCA | MOCP | V/PH/Hz | | |
| | | | | | | | TOTAL (MBH) | SENSIBLE (MBH) | DB (DEG F) | WB (DEG F) | DB (DEG F) | WB (DEG F) | | | | | | | | | | | | | | |
| AC 8 | TRANE QADG015 | ROOF | LAB 101 | 15 | 2,600 | 1.5 | 165.5 | 159.6 | 115 | 75 | 54 | 54 | (8.8) | SCROLL | 1 | 81 | 250 | 202.5 | 20 | 90 | 10:1 | 70.7 | 90 | 208/3/60 | 3,100 | 123 |

REMARKS:

- PROVIDE SMOKE DUCT DETECTOR IN SUPPLY AIR STREAM AND INTERLOCK WITH FIRE ALARM SYSTEM AND UNIT FOR SHUTDOWN PER 609 OF THE CALIFORNIA MECHANICAL CODE.
- PROVIDE WITH VFD, HOT GAS REHEAT AND MERV-13 FILTERS.
- MOUNT ON NEW ROOF PLATFORM. SEE STRUCTURAL PLANS FOR DETAILS.



IMPERIAL COUNTY HEALTH CLINIC
AC UNIT REPLACEMENT
935 BROADWAY STREET
EL CENTRO, CA

JOB NO. -

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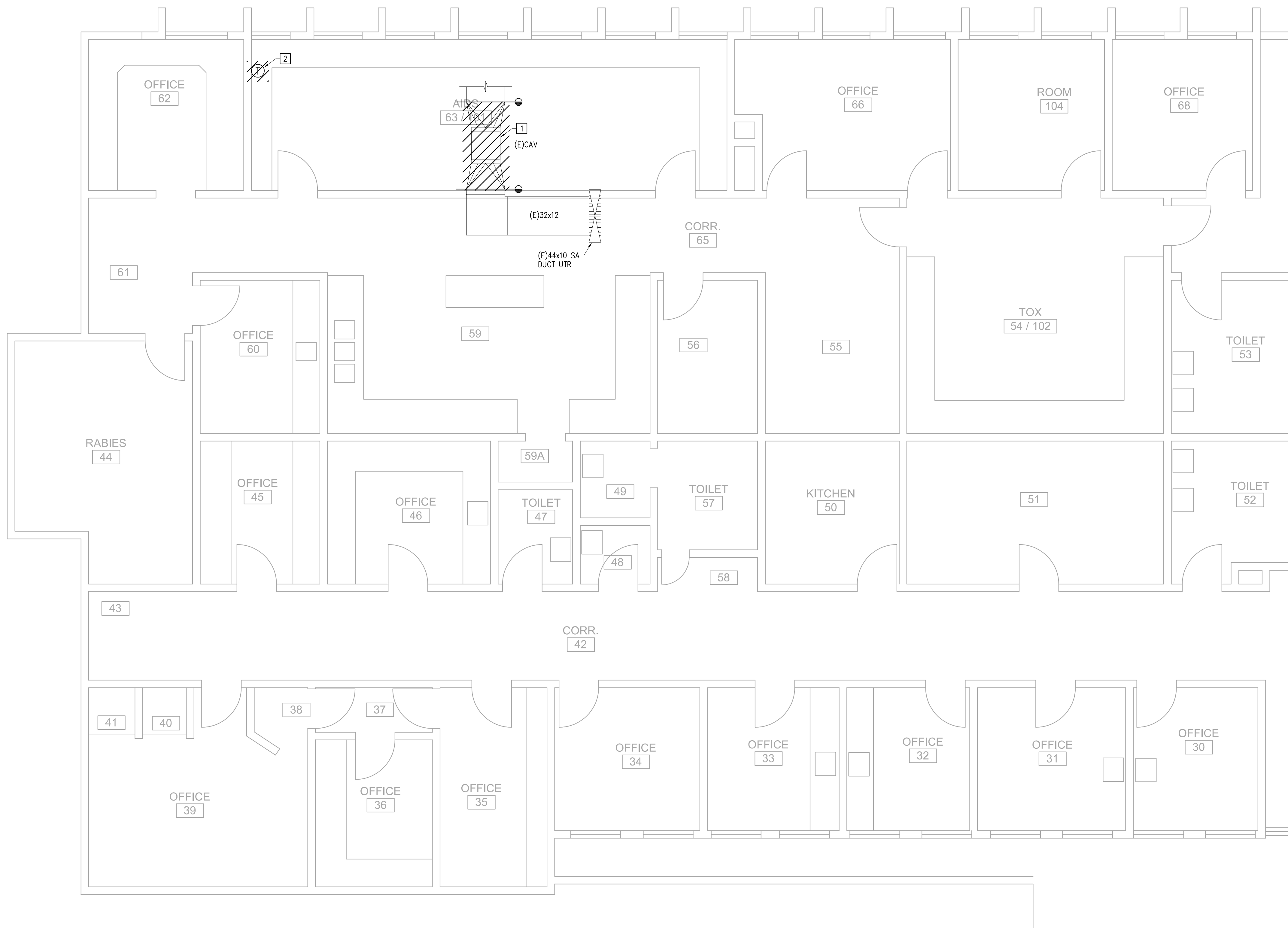
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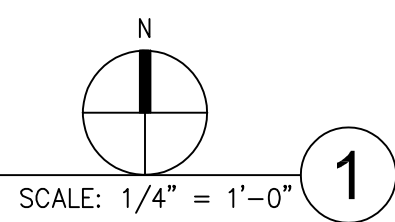
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MECHANICAL
LEGEND, NOTES
& SCHEDULES

SHEET NO.

M001



MECHANICAL FLOOR PLAN - DEMOLITION



KEY NOTES

- 1 DISCONNECT AND REMOVE EXISTING CAV BOX, SUPPORTS, AND CONTROLS SHOWN HATCHED.
- 2 DISCONNECT AND REMOVE EXISTING WALL MOUNTED THERMOSTAT.



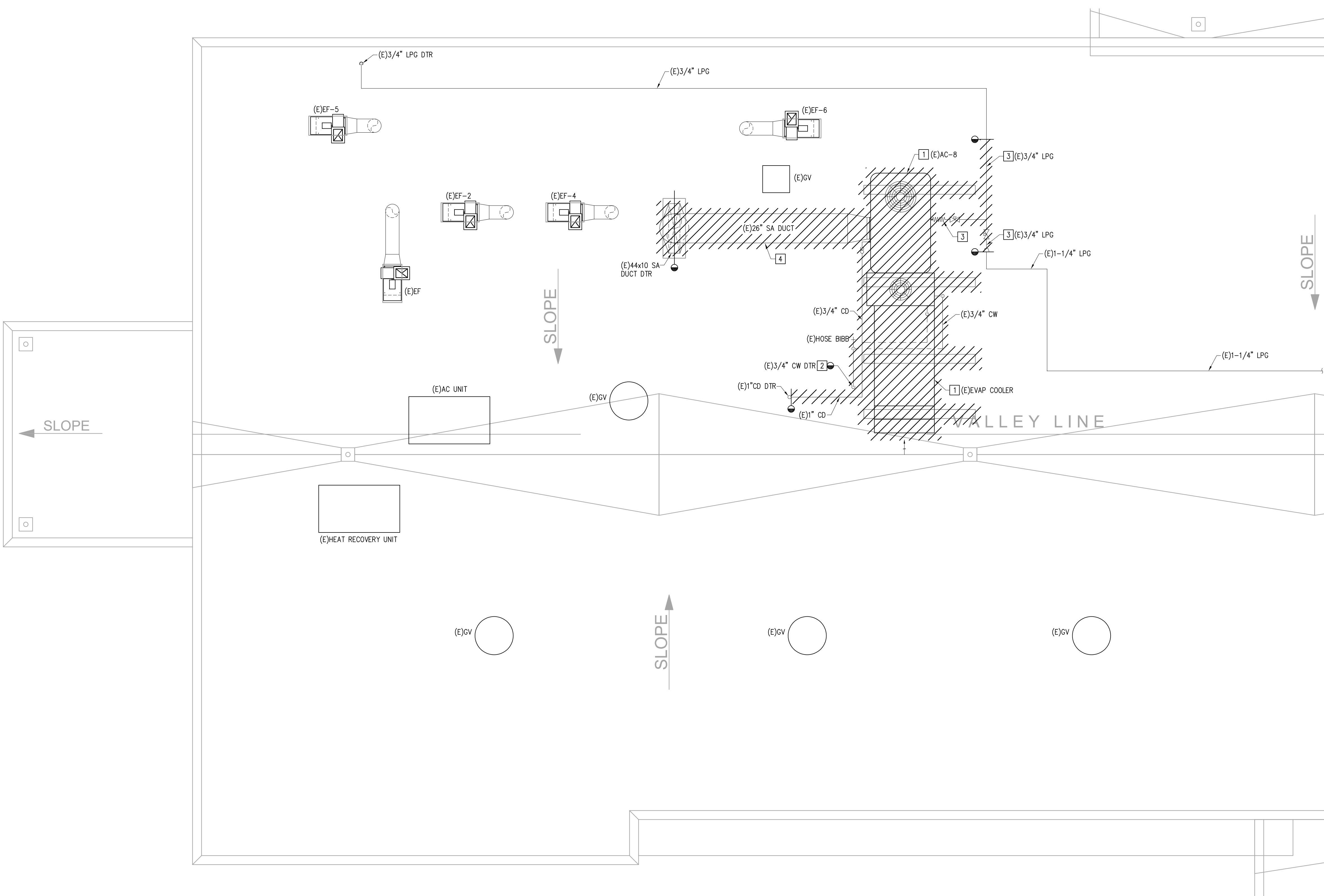
IMPERIAL COUNTY HEALTH CLINIC
AC UNIT REPLACEMENT
935 BROADWAY STREET
EL CENTRO, CA

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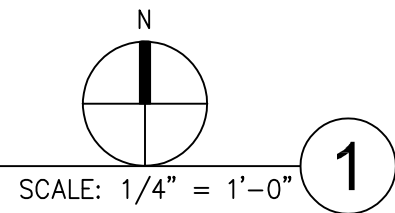
DRAWING TITLE
MECHANICAL
FLOOR PLAN
DEMOLITION

SHEET NO.

M101



MECHANICAL ROOF PLAN - DEMOLITION



KEY NOTES

- 1 DISCONNECT AND REMOVE EXISTING AC UNIT, EVAP COOLER AND ROOF PLATFORMS.
- 2 DISCONNECT AND REMOVE EXISTING COLD WATER MAKE-UP PIPING SHOWN HATCHED. POINT OF DISCONNECTION AT VERTICAL DROP ABOVE ROOF.
- 3 DISCONNECT AND REMOVE EXISTING LOW PRESSURE GAS PIPING SHOWN HATCHED.
- 4 DISCONNECT AND REMOVE EXISTING SUPPLY AIR DUCT SHOWN HATCHED. POINT OF DISCONNECTION AT VERTICAL DROP ABOVE ROOF.



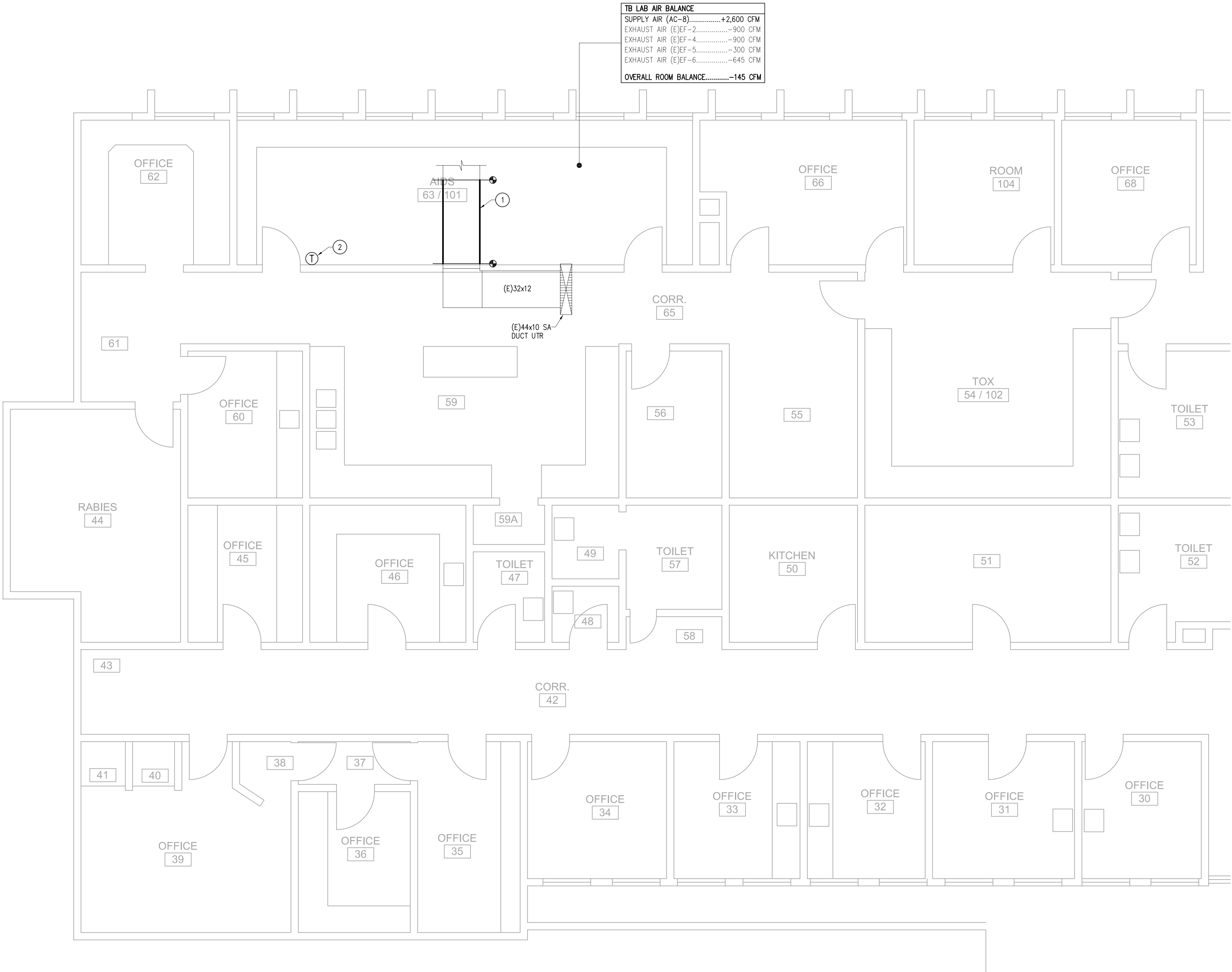
IMPERIAL COUNTY HEALTH CLINIC
AC UNIT REPLACEMENT
935 BROADWAY STREET
EL CENTRO, CA

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MECHANICAL
ROOF PLAN
DEMOLITION

SHEET NO.

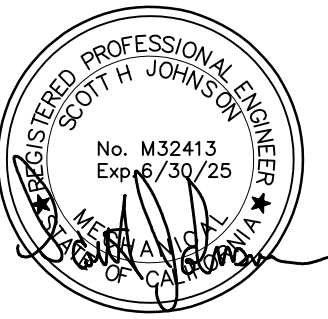
M102



| TB LAB AIR BALANCE | |
|---------------------------|------------|
| SUPPLY AIR (AC-8)..... | +2,600 CFM |
| EXHAUST AIR (E)EF-2..... | -900 CFM |
| EXHAUST AIR (E)EF-4..... | -900 CFM |
| EXHAUST AIR (E)EF-5..... | -300 CFM |
| EXHAUST AIR (E)EF-6..... | -645 CFM |
| OVERALL ROOM BALANCE..... | -145 CFM |

KEY NOTES

- 1 NEW SUPPLY AIR DUCT, SIZED TO MATCH EXISTING. CONTRACTOR TO VERIFY EXISTING DUCT SIZE IN FIELD.
- 2 PROVIDE NEW WALL MOUNTED THERMOSTAT.



IMPERIAL COUNTY HEALTH CLINIC
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EL CENTRO, CA

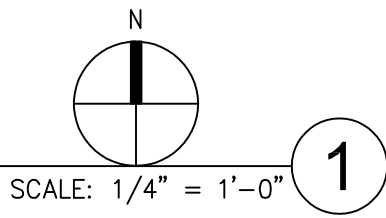
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FLOOR PLAN
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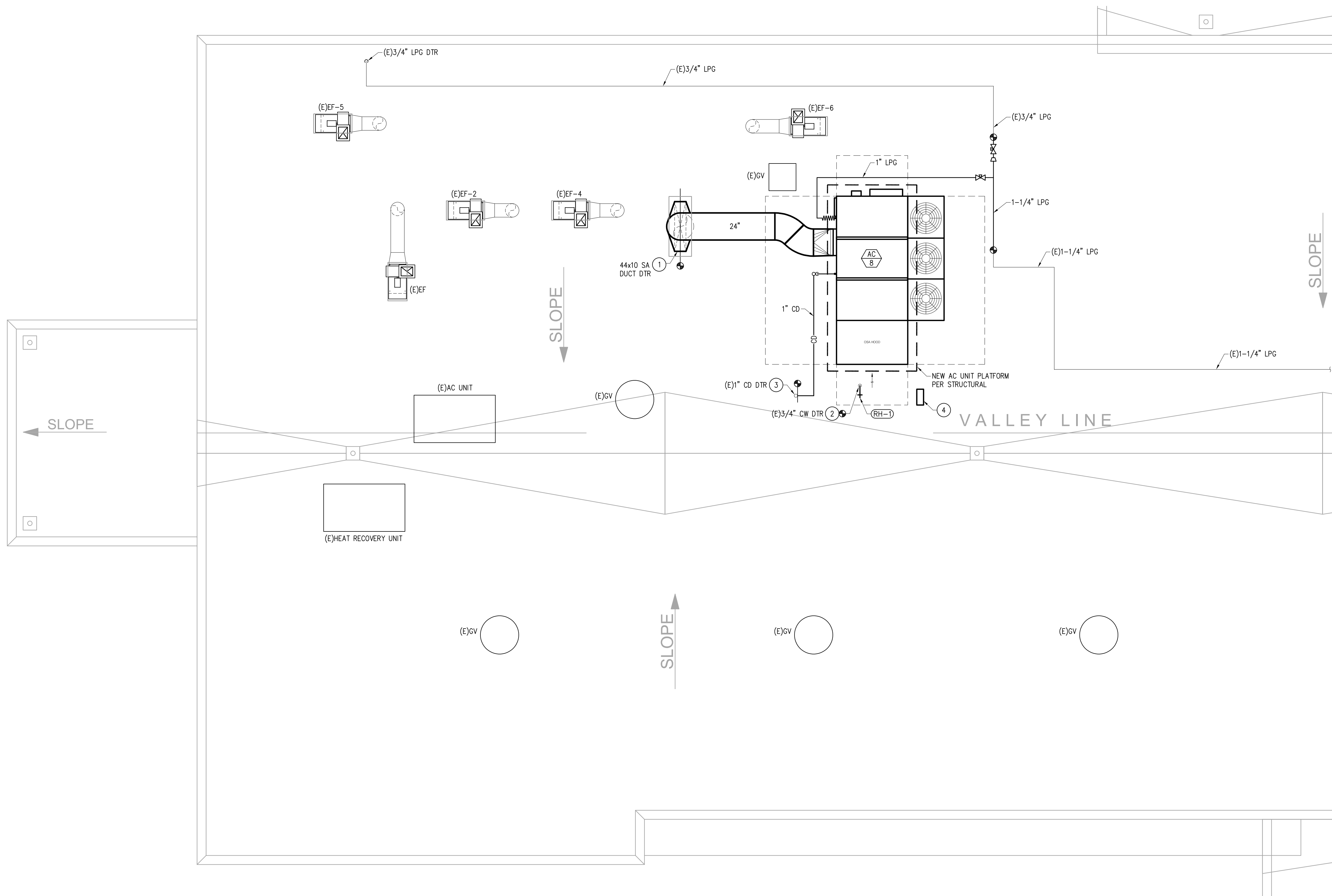
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M201

MECHANICAL FLOOR PLAN - NEW WORK



KEY PLAN



MECHANICAL ROOF PLAN - NEW WORK

N

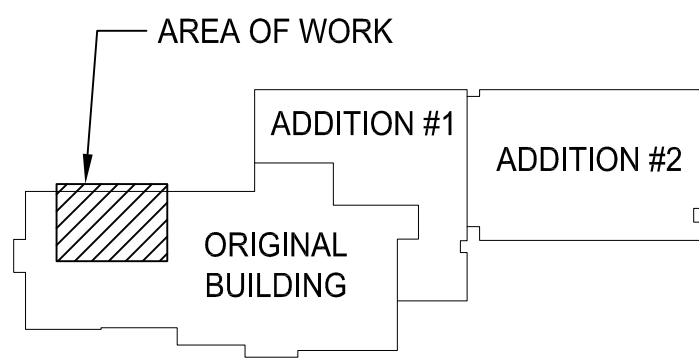
SCALE: 1/4" = 1'-0"

1

KEY NOTES

- 1 PROVIDE NEW SUPPLY AIR DUCT ON ROOF AND CONNECT TO EXISTING. POINT OF CONNECTION AT VERTICAL DROP ABOVE ROOF.
- 2 PROVIDE NEW ROOF HYDRANT AND 3/4" CW PIPING AND CONNECT TO EXISTING. POINT OF CONNECTION AT VERTICAL DROP ABOVE ROOF.
- 3 PROVIDE NEW 1" CD PIPING AND CONNECT TO EXISTING. POINT OF CONNECTION AT VERTICAL DROP ABOVE ROOF.
- 4 PROVIDE TRANE SUPERVISORY CONTROLLER IN NEMA-4 ENCLOSURE ON UNISTRUT ROOF SUPPORTS PER STRUCTURAL. PROVIDE 120V POWER AND ETHERNET CABLE TO CONTROLLER PER ELECTRICAL PLANS.

KEY PLAN



J&R Engineering & Consulting, Inc.

16769 Bernardo Drive, Suite 1 #768
San Diego, CA 92128

EPI

THE ENGINEERING PARTNERS, INC.
CONSULTING ENGINEERS
10150 MEANLEY DRIVE, SUITE 200
SAN DIEGO, CA 92131
(619) 424-1761 FAX (619) 424-1768

EPI PROJECT #: 120-486E



IMPERIAL COUNTY HEALTH CLINIC
AC UNIT REPLACEMENT
935 BROADWAY STREET
EL CENTRO, CA

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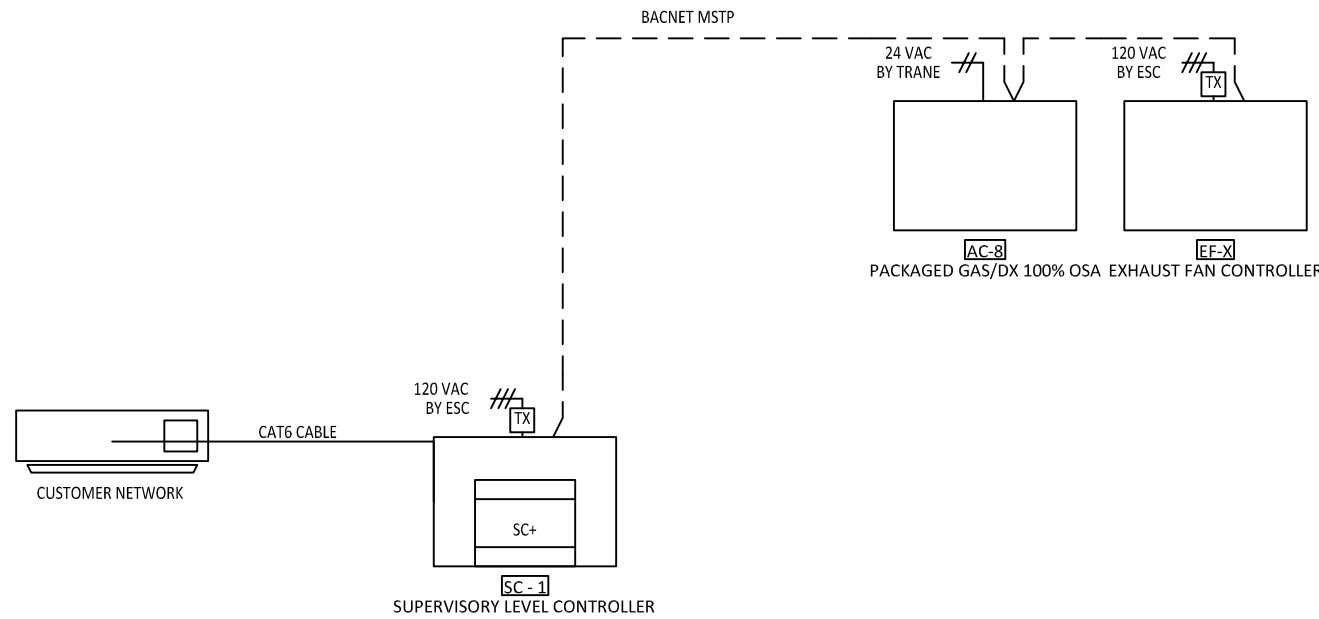
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ROOF PLAN
NEW WORK

SHEET NO.

M202



IMPERIAL COUNTY HEALTH CLINIC
AC UNIT REPLACEMENT
935 BROADWAY STREET
EL CENTRO, CA

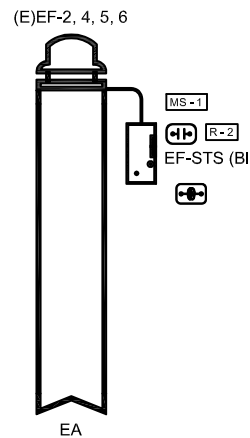


DDC CONTROLS ARCHITECTURE DIAGRAM

SCALE: NONE

1

Flow Diagram: (E)EXHAUST FAN (TYP.)



Sequence of Operation: (E)EXHAUST FAN (TYP.)

Operation:
The exhaust fans serving the TB lab are existing and operate continuously. Exhaust fan status will be monitored and alarm generated if status is not detected.

Points List: EXHAUST FAN

| System Point Description | POINTS | | | | | | | | | | ALARMS | | | | | |
|--------------------------|--------------------|---------|----------------------------|----------------------------|-----------------------------|-----------------------------|----------------------|--------------------------|----------------|---------------|-------------------|------------------|--------|------------------|-------------|--------------------|
| | | GRAPHIC | ANALOG HARDWARE INPUT (AI) | BINARY HARDWARE INPUT (BI) | ANALOG HARDWARE OUTPUT (AO) | BINARY HARDWARE OUTPUT (BO) | SOFTWARE POINT (SFT) | HARDWARE INTERLOCK (HDW) | WIRELESS (WLS) | NETWORK (NET) | HIGH ANALOG LIMIT | LOW ANALOG LIMIT | BINARY | LATCH DIAGNOSTIC | SENSOR FAIL | COMMUNICATION FAIL |
| | EXHAUST FAN STATUS | X | | X | | | | | | | | | | | | |
| | EF-STS | | | | | | | | | | | | | | | |

EXHAUST FAN CONTROLS

SCALE: NONE

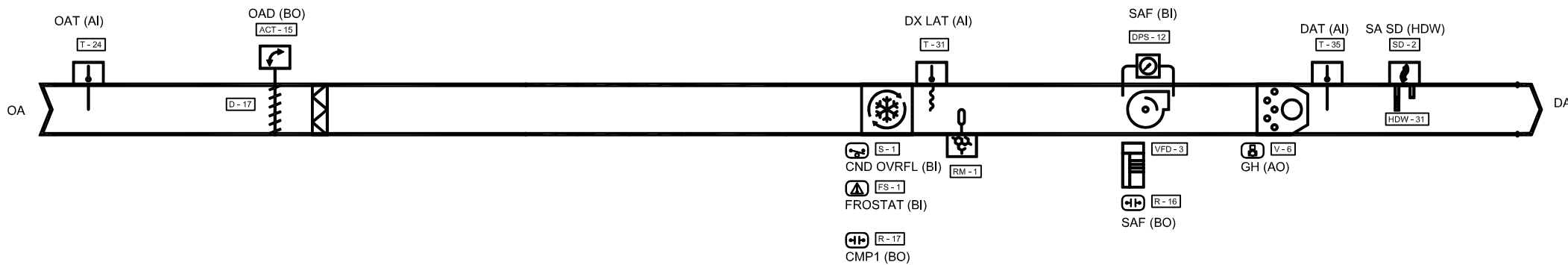
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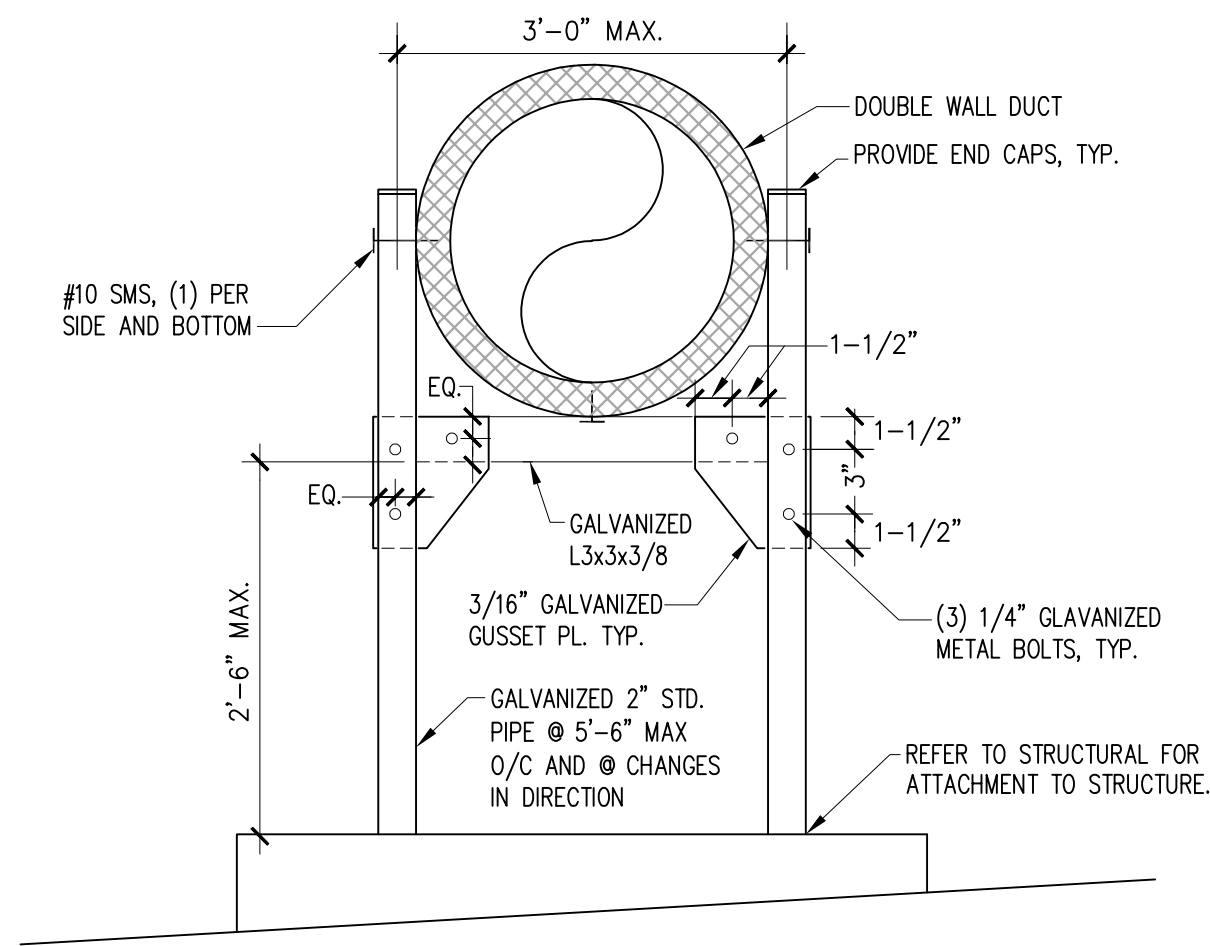
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DRAWING TITLE
MECHANICAL
CONTROLS

SHEET NO.

M301

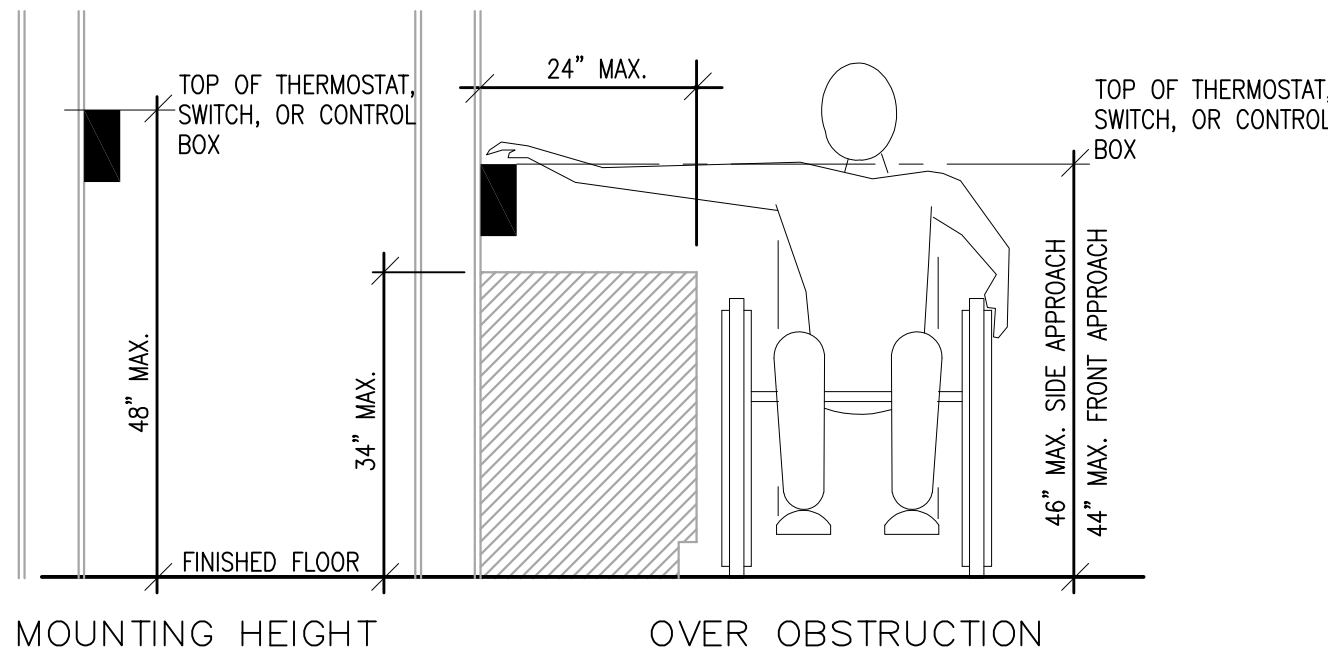
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ROOF MOUNTED DUCT SUPPORT

SCALE: NONE

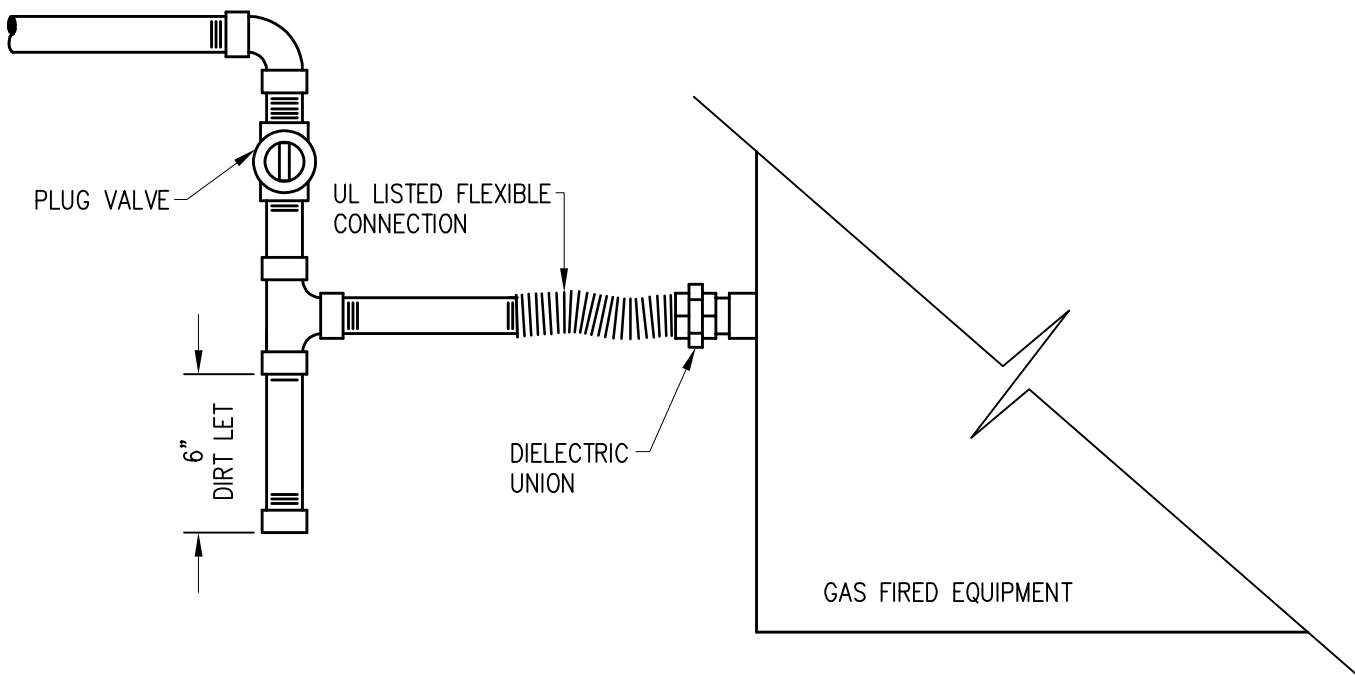
4



THERMOSTAT MOUNTING DETAIL

SCALE: NONE

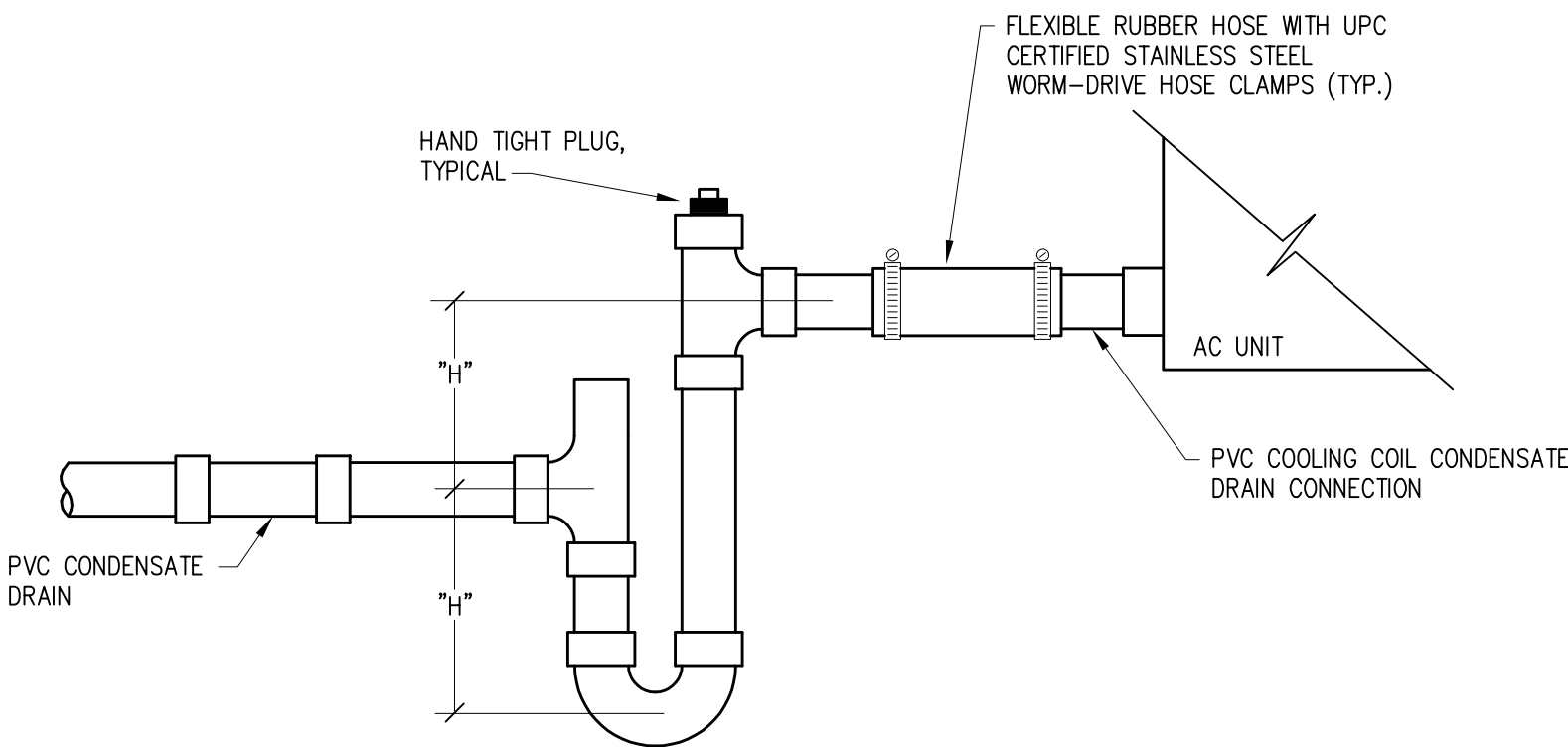
1



GAS PIPE CONNECTION DETAIL

SCALE: NONE

2



FOR 5 TON UNITS AND UNDER, H = 1-1/2"
FOR ALL OTHER UNITS, SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

CONDENSATE TRAP (DRAW THROUGH)

SCALE: NONE

3



IMPERIAL COUNTY HEALTH CLINIC
AC UNIT REPLACEMENT

935 BROADWAY STREET
EL CENTRO, CA

| JOB NO. - | | |
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DRAWING TITLE
**MECHANICAL
DETAILS**

SHEET NO.

M401

STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Imperial County Health Clinic

Report Page: (Page 3 of 10)

Date Prepared: 4/13/2025

| F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) | | | | | | | | | | |
|--|--|--|---|---|----------------|-------------------------------|-------------------------------|----------------|----------------------------------|--------------------------------------|
| Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems) | | | | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| Name or Item Tag | Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3a1 | Equipment Type per Tables 110.2 and Title 20 | Smallest Size Available ¹ 140.4(a) and 170.2(c)1 | Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2 | | | | | | |
| | | | | Heating Output ^{2,3} | | | Cooling Output ^{2,3} | | Load Calculations ^{3,4} | |
| | | | | Per Design (kBtu/h) | Rated (kBtu/h) | Supp. Heating Output (kBtu/h) | Sensible Per Design (kBtu/h) | Rated (kBtu/h) | Total Heating Load (kBtu/h) | Total Sensible Cooling Load (kBtu/h) |
| AC-8 | Unitary AC/ Condensers | AC, air-cooled pkg (3 phase) | Yes | 202.5 | 202.5 | 0 | 165.78 | 159.6 | 187.54 | 167.57 |

¹FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are exempted.

²It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

³If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

⁴Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

| Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps) | | | | | | | | |
|--|------------------------|-----------------------|-----------------|---|-------------------|-----------------|---|-------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
| Name or Item Tag | Size Category (Btu/h) | Heating Mode | | | Cooling Mode | | | |
| | | Rating Condition (°F) | Efficiency Unit | Minimum Efficiency Required per Tables 110.2 / Title 20 | Design Efficiency | Efficiency Unit | Minimum Efficiency Required per Tables 110.2 / Title 20 | Design Efficiency |
| AC-8 | >=135,000 and <240,000 | | AFUE | 0.8 | 0.81 | EER IEEER | 10.8 14 | 10.8 14 |

G. PUMPS

This section does not apply to this project.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: EnergyPro-41015-0425-0723

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STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Imperial County Health Clinic

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J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and 124(e)9(a)(1)(i)2 160.2, 160.3(a)3D, 170.2(c)4A, 170.2(c)4D for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.

| | | |
|----|-------------------------------------|---|
| 01 | <input type="checkbox"/> | Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table. |
| 02 | <input checked="" type="checkbox"/> | Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces |
| 03 | <input type="checkbox"/> | Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2. |

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

| 04 | 05 | 06 | 07 |
|------------------------|--|--|--|
| System Name | AC-8 | System Design OA CFM Airflow ¹ | 2600 |
| | | System Design Transfer Air CFM | 0 |
| | | | Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 ² |
| | | | Provided |
| 08 | 09 | 10 | 11 |
| | | 12 | 13 |
| | | 14 | 15 |
| | | | 16 |
| Space Name or Item Tag | Mechanical Ventilation Required per 120.1(c)3 ³ & 160.2(c)3 | Exh. Vent per 120.1(c)4 & 160.2(c)4 | DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3 ³ 160.2(c)5D 160.2(c)5E 160.2(c)5D |
| | Occupancy Type ⁴ | Conditioned Floor Area (ft ²) | # of Shower heads/ toilets |
| | | # of people ³ | Required Min OA CFM |
| | | Required Min CFM | Provided per Design CFM |
| TB Lab | All others | 350 | 52.5 |
| | | | 0 |
| | | | DCV |
| | | | NA: Not required per 120.1(d)3 |
| | | | Occ Sensor |
| | | | NA: Not required space type |
| 17 | Total System Required Min OA CFM | 52 | 18 |
| | | | Ventilation for this System Complies? |
| | | | Yes |

¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

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

³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

⁴ See Standards Tables 120.1-A and 120.1-B.

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Schema Version: rev 20220101

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STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Imperial County Health Clinic

Report Page: (Page 2 of 10)

Date Prepared: 4/13/2025

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

| | | | | | | | | |
|---|---------------|---------------------|---------------|------------------------------|---------------|----------------------------------|---------------|--------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
| System Summary | AND | Pumps | AND | Fans/ Economizers | AND | System Controls | AND | Ventilation |
| 110.1, 110.2, 140.4, 170.2(c) | | 140.4(k), 170.2(c)4 | | 140.4(c), 140.4(e), 170.2(c) | | 110.2, 120.2, 140.4(f), 170.2(c) | | 120.1, 160.2 |
| (See Table F) | (See Table G) | (See Table H) | (See Table I) | (See Table J) | (See Table K) | (See Table L) | (See Table M) | |
| Yes | AND | AND | Yes | AND | Yes | AND | Yes | 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.

E. ADDITIONAL REMARKS

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

MO.2

| F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) | | | | | |
|--|----------|----------------|---------------|------------|--------------------------|
| Space Conditioning System Information | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 |
| System Name | Quantity | System Serving | System Status | Space Type | Utilizing Recovered Heat |
| AC-8 | 1 | Single zone | New/ Addition | | <input type="checkbox"/> |

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STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Imperial County Health Clinic

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H. FAN SYSTEMS & AIR ECONOMIZERS

¹ Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-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 |
| 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(a) & 170.2(c)4D | Exhaust Air Heat Recovery 140.4(a) & 170.2(c)4D | Type Of Heat Recovery Rating | Required Recovery Ratio | Energy Recovery Bypass |

Fan Energy Index (FEI)

| | | |
|------------------|---------------|-----|
| 01 | 02 | 03 |
| Name or Item Tag | FEI Exception | FEI |

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)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) & (c) ¹ , 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2 | Shut-Off Controls 120.2(e) & 160.3(a)2D | Isolation Zone Controls 120.2(g) & 160.3(a)2F | Demand Response 110.12 120.2(b) & 160.3(a)2B | Supply Air Temp. Reset 140.4(f) & 170.2(c)4D | Window Interlocks per 140.4(n) & 170.2(c)4D |
| AC-8 | Single zone | <= 25,000 ft ² | EMCS | EMCS | NA: Single Zone | EMCS | included | NA: No operable windows |

¹FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

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STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Imperial County Health Clinic

Report Page: (Page 1 of 10)

Date Prepared: 4/13/2025

Project Address: 935 Broadway Street

A. GENERAL INFORMATION

| | | | |
|------------------------------------|-----------|---|-----|
| 01 Project Location (city) | El Centro | 04 Total Conditioned Floor Area | 350 |
| 02 Climate Zone | 15 | 05 Total Unconditioned Floor Area | 0 |
| 03 Occupancy Types Within Project: | | 06 # of Stories (Habitable Above Grade) | 1 |
| All Other Occupancies | | | |

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.

| | | |
|--|---|---|
| 01 | 02 | 03 |
| Air System(s) | Wet System Components | Dry System Components |
| <input checked="" type="checkbox"/> Heating Air System | <input type="checkbox"/> Water Economizer | <input type="checkbox"/> Air Economizer |
| <input checked="" type="checkbox"/> Cooling Air System | <input type="checkbox"/> Pumps | <input type="checkbox"/> Electric Resistance Heat |
| Mechanical Controls | <input type="checkbox"/> System Piping | <input checked="" type="checkbox"/> Fan Systems |
| <input checked="" type="checkbox"/> Mechanical Controls (existing to remain, altered or new) | <input type="checkbox"/> Cooling Towers | <input checked="" type="checkbox"/> Ductwork (existing to remain, altered or new) |
| | <input type="checkbox"/> Chillers | <input checked="" type="checkbox"/> Ventilation |
| | <input type="checkbox"/> Boilers | <input type="checkbox"/> Zonal Systems/ Terminal Boxes |

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STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Imperial County Health Clinic

Report Page: (Page 4 of 10)

Date Prepared: 4/13/2025

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

| | | | | | | | | | | | | | | | |
|-------------|------|-----------|----|-------------------|-----|---------------|-------------------|------------------------|----------------------------|--------------------------|-------|----------------|-----|------------|---------------------------|
| System Name | AC-8 | Quantit y | 1 | Fan System Status | New | System Zoning | all other systems | Serving Dwelling Units | Not Serving Dwelling Units | Fan System Airflow (cfm) | 2,600 | Site Elevation | -59 | Economizer | Differential Temperatur e |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | | | | | |

Fan Name or Item Tag

Fan Type

Qty

Component

Airflow through Component (%)

Water Gauge (w.g)

Allowance

Componen t Allowance

Fan Allowance (watt/cfm)³

Design Electrical Input Power Method

Motor Nameplate Horsepower

Design Electrical Input Power (kW)

SF

Supply

1

Base Allowance for system serving spaces <=6 floors away

2,600

603

MERV 13-16 Filter upstream of thermal conditioning equipment

2,600

361

Gas heat

2,600

151

Hydronic/DX cooling coil or heat pump coil

2,600

361

100% outdoor air system

2,600

182

Exhaust/Return/Relief/Transfer Fan Base Allowance(kW)

Fan System Allowance (kW)³

Fan System Electrical Output (kW)

0.94

¹ FOOTNOTES: Fans serving spaces with design background noise goals below NC35

² Low-turndown 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 Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.

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IMPERIAL COUNTY HEALTH CLINIC
AC UNIT REPLACEMENT
935 BROADWAY STREET
EL CENTRO, CA

JOB NO. -

DATE: -

ISSUED

| No. | Description | Date |
|-----|-------------|------|
| 1 | - | - |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

REVISIONS

| No. | Description | Date |
|-----|-------------|------|
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FILE NAME: -
DRAWN BY: JRE
DESIGNED BY: JRE
CHECKED BY: MR
DATE: -

DRAWING TITLE
TITLE 24

SHEET NO.

STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name:Imperial County Health Clinic

Report Page:(Page 9 of 10)

Date Prepared:4/13/2025

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCL/

Form/Title

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

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

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.

Trane OADG015;

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".

Trane OADG015;

NRCA-MCH-11-A Automatic Demand Shed Controls

Trane OADG015;

NRCA-MCH-18-A Energy Management Control Systems

Trane OADG015;

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01

02

Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block

Yes

Plan sheet or construction document location M-Sheets

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STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name:Imperial County Health Clinic

Report Page:(Page 8 of 10)

Date Prepared:4/13/2025

L. DISTRIBUTION (DUCTWORK AND PIPING)

Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?

No

Duct leakage testing per CMC Section 603.10.1 required for these systems?

Yes

11

No

The scope of the project includes only duct systems serving healthcare facilities

12

Yes

Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.

13

Yes

The space conditioning system serves less than 5,000 ft² of conditioned floor area.

14

No

The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:

15

The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.

16

No

The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.

17

All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A

18

All ductwork is an extension of an existing duct system

19

Ductwork serving individual dwelling unit

20

< 25 ft of new or replacement space conditioning ducts installed

21

R-8

Duct Insulation R-value

22

23

M. COOLING TOWERS

This section does not apply to this project.

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STATE OF CALIFORNIA

Mechanical Systems

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NRCC-MCH-E

Project Name:Imperial County Health Clinic

Report Page:(Page 7 of 10)

Date Prepared:4/13/2025

J. VENTILATION AND INDOOR AIR QUALITY

³ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
⁴ 120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK AND PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.

01

☐

Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:

AC-8

NR/ Common Use: Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?

No

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STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name:Imperial County Health Clinic

Report Page:(Page 10 of 10)

Project Address:935 Broadway Street

Date Prepared:4/13/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:Scott Johnson

Documentation Author Signature:

Company:J&R Engineering & Consulting, Inc.

Signature Date:2025-04-13

Address:16769 Bernardo Center Dr. Suite 1#768

CEA/HERS Certification Identification (if applicable):M32413

City/State/Zip:San Diego CA 92128

Phone:858-395-6810

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1, and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:Scott Johnson

Responsible Designer Signature:

Company:J&R Engineering & Consulting, Inc.

Date Signed:2025-04-13

Address:16769 Bernardo Center Drive, Suite 1 #768

License:M32413

City/State/Zip:San Diego CA 92128

Phone:858-395-6810

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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EPI

THE ENGINEERING PARTNERS, INC.

CONSULTING ENGINEERS

10150 MEANLEY DRIVE, SUITE 200

SAN DIEGO, CA 92131

(619) 824-7741 FAX (619) 424-1768

EPI PROJECT #: 120-486E

IMPERIAL COUNTY HEALTH CLINIC

AC UNIT REPLACEMENT

935 BROADWAY STREET

EL CENTRO, CA

JOB NO.

-

DATE:

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ISSUED

No.

Description

Date

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REVISIONS

No.

Description

Date

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FILE NAME:

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DRAWN BY:

JRE

DESIGNED BY:

JRE

CHECKED BY:

MR

DATE:

-

DRAWING TITLE

TITLE 24

SHEET NO.

M502

J&R Engineering & Consulting, Inc.

16769 Bernardo Drive, Suite 1 #768

San Diego, CA 92128

| ELECTRICAL SYMBOLS & LEGEND | | | | | | | | | |
|-----------------------------|--|---------|---|--|--|--|--|--|--|
| GENERAL | | | RACEWAYS | | | | | | |
| ③ | NOTE REFERENCE | | | | | | | | |
| POWER | | | | | | | | | |
| +48" | INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR | | | | | | | | |
| PH OR Ø | PHASE | | | | | | | | |
| | MOTOR CONNECTION WITH HP NOTED | | | | | | | | |
| | NON-FUSED SAFETY DISCONNECT SWITCH. SHALL NOT BE MTD. MORE THAN 48" AFF UON | | | | | | | | |
| | FUSED SAFETY DISCONNECT SWITCH. FUSES PER EQUIPMENT MANUFACTURER RECOMMENDATION OR AS OTHERWISE NOTED. SHALL NOT BE MTD. MORE THAN 48" AFF UON | | | | | | | | |
| | JUNCTION OF OUTLET BOX CEILING OR WALL MOUNTED AS INDICATED. LOCATE ABOVE ACCESSIBLE CEILING UON. | | | | | | | | |
| | DUPLEX RECEPTACLE, FLUSH MOUNTED, THE CENTER SHALL BE INSTALL NOT LESS THAN 15" AFF UNLESS NOTED OTHERWISE. | | | | | | | | |
| | SURFACE MOUNTED PANELBOARD | | | | | | | | |
| | WALL PHONE OUTLET | | | | | | | | |
| | DATA OUTLET | | | | | | | | |
| | NEMA 16-30R RECEPTACLE | | | | | | | | |
| | EMERGENCY DUPLEX RECEPTACLE, FLUSH MOUNTED, THE BOTTOM OF THE BOX SHALL BE INSTALLED NOT LESS THAN 15" AFF UNO. | | | | | | | | |
| | DUPLEX RECEPTACLE, SURFACE MOUNTED, THE BOTTOM OF THE BOX SHALL BE INSTALLED NOT LESS THAN 15" AFF UNO. | | | | | | | | |
| | EMERGENCY DUPLEX RECEPTACLE, SURFACE MOUNTED, THE BOTTOM OF THE BOX SHALL BE INSTALLED NOT LESS THAN 15" AFF UNO. | | | | | | | | |
| | QUADRUPLEX RECEPTACLE, FLUSH MOUNTED, THE BOTTOM OF THE BOX SHALL BE INSTALLED NOT LESS THAN 15" AFF UNO. | | | | | | | | |
| | DEDICATED DUPLEX RECEPTACLE, SURFACE MOUNTED, THE BOTTOM OF THE BOX SHALL BE INSTALLED NOT LESS THAN 15" AFF UNO. | | | | | | | | |
| ABBREVIATIONS | | | GENERAL NOTES | | | | | | |
| A | AMPERE | MOC | 1. THE SEISMIC BRACING AND ANCHORAGE OF ELECTRICAL CONDUITS, WIREWAY AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE "GUIDELINE FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS," PUBLISHED BY SMACNA AND PPIC. | | | | | | |
| ADA | AMERICAN DISABILITIES ACT | NC | 2. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA: FIXED EQUIPMENT ON STRUCTURE 30% OF OPERATING WEIGHT | | | | | | |
| AC | ALTERNATING CURRENT | (N) | 3. ALL ELECTRICAL PREFABRICATED EQUIPMENT SHALL BE DESIGNED AND CONSTRUCTED IN SUCH A MANNER THAT ALL PORTIONS, ELEMENTS, SUB-ASSEMBLIES AND/OR PARTS OF SAID EQUIPMENT AND THE EQUIPMENT AS A WHOLE INCLUDING ITS ATTACHMENTS, WILL RESIST A LOAD WHICH EXCEEDS THE FORCE LEVEL USED TO RESTRAIN AND ANCHOR THE EQUIPMENT TO THE SUPPORTING STRUCTURE. | | | | | | |
| AF | AMP FRAME | NO | 4. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL, OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY WHERE UL DOES NOT HAVE A LISTING. CUSTOM MADE EQUIPMENT SHALL HAVE COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURER ATTESTING TO ITS SAFETY. | | | | | | |
| AFF | ABOVE FINISHED FLOOR | NFPA | 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF DRAWINGS AND SPECIFICATIONS. HE/SHE SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS/HER RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. | | | | | | |
| AIC | AMPERE INTERRUPTING CAPACITY | NEC | 6. PROVIDE A SEPARATE NEUTRAL WIRE FOR EACH BRANCH CIRCUIT. SEE SPECIFICATIONS FOR COLOR CODING REQUIREMENTS. | | | | | | |
| AS | AMP SWITCH | NTS | 7. DRAWNGS ARE DIAGRAMMATIC ONLY. ROUTING OF RACEWAYS AND CONDUCTORS SHALL BE AT THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER SECTIONS. DO NOT SCALE THE ELECTRICAL DRAWNGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES. | | | | | | |
| C | CONDUCTOR, CONDUIT | PNL | 8. THE EQUIPMENT GROUNDING CONDUCTOR SHOWN ON CONDUIT RUNS SHALL RUN CONTINUOUS FROM PANEL TO LAST OUTLET. THIS WIRE SHALL BE PIGTAILED IN EACH OUTLET FOR CONNECTION TO BOX AND DEVICE SO THAT IF DEVICE IS REMOVED, GROUND WILL NOT BE INTERRUPTED. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED GREEN CONDUCTORS - ALTERNATE METHODS OF IDENTIFICATION SHALL NOT BE USED. | | | | | | |
| CKT | CIRCUIT | PROVIDE | 9. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT. SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT. DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS SHALL BE PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT. | | | | | | |
| CSFM | CALIF. STATE FIRE MARSHALL | SFD | 10. CONNECTIONS TO VIBRATING EQUIPMENT AND SEISMIC SEPARATIONS: LIQUDTIGHT FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS. LIQUDTIGHT FLEXIBLE STEEL CONDUIT IN AREAS EXPOSED TO WEATHER, DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES, AND FINAL CONNECTIONS TO MOTORS. PROVIDE A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN FLEXIBLE CONDUIT RUNS. | | | | | | |
| CU | COPPER | SHT | 11. WHENEVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, GROUND FAULT PROTECTION SYSTEMS, ETC. (ALL MATERIALS), ARISES ON THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS. | | | | | | |
| DWG | DRAWING | SWT | 12. REFER TO SINGLE LINE DIAGRAM AND FEEDER SCHEDULES FOR CONDUIT AND CONDUCTOR SIZE TO PANELS, TRANSFORMERS, MECHANICAL AND PLUMBING EQUIPMENT, ETC. CONDUIT RUNS MAY NOT BE SHOWN ON DRAWINGS, BUT ARE PART OF THIS CONTRACT. | | | | | | |
| E (E) | EXISTING TO REMAIN | SWBD | 13. STRAIGHT FEEDER, BRANCH CIRCUIT, AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS. | | | | | | |
| ELEC | ELECTRICAL | T | 14. WHERE MULTI-HOMERUNS ARE INDICATED ON DRAWINGS INDICATING THE SAME PANELBOARD CIRCUIT NUMBER, PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING AND ROUTE ONE SET OF WIRES TO CIRCUIT BREAKERS. | | | | | | |
| FA | FIRE ALARM | TYP | | | | | | | |
| FLUOR | FLUORESCENT | UL | | | | | | | |
| GALV | GALVANIZED | UNO | | | | | | | |
| GF1, GF | GROUND FAULT INTERRUPTER | V | | | | | | | |
| GND, G | GROUND | W | | | | | | | |
| HP | HORSEPOWER | WP | | | | | | | |
| HT | HEIGHT | W/ | | | | | | | |
| K | THOUSAND | XFMR | | | | | | | |
| KCMIL | THOUSAND CIRCULAR MILS | (XN) | | | | | | | |
| KV | KILOVOLTS | (XR) | | | | | | | |
| KVA | KILOVOLT-AMPERE | | | | | | | | |
| KW | KILOWATT | | | | | | | | |
| LTG | LIGHTING | | | | | | | | |
| LV | LOW VOLTAGE | | | | | | | | |
| MTD | MOUNTED | | | | | | | | |
| MCA | MINIMUM CIRCUIT AMPS | | | | | | | | |
| | | | CIRCUIT BREAKER NUMBER OF POLES AMPS FRAME AMPS TRIP KAIC RATING | | | | | | |
| | | | 20 AMP RATED TOGGLE SWITCH NUMBER INDICATES THE BRANCH CIRCUIT | | | | | | |
| | | | MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS | | | | | | |
| | | | MULTI-OUTLET SURFACE MOUNTED RACEWAY (WIREMOLD ISO DUCT AL3000) NUMBER OF BOXES (HATCHED) INDICATES NUMBER OF DUPLEX RACEWAY. PREFIX DENOTES THE FOLLOWING: GF - GROUND FAULT CIRCUIT INTERRUPTER PROTECTION 29 - CIRCUIT NUMBER | | | | | | |
| | | | CONDUIT TERMINATED AND CAPPED | | | | | | |
| | | | WIRING OR CONDUIT CONCEALED IN WALL OR CEILING | | | | | | |
| | | | FLEXIBLE CONDUIT | | | | | | |
| | | | CONDUIT OR MC CABLE HOMERUN TO PNL BRD. TEXT INDICATES ELECTRICAL PNL DESIGNATION AND CIRCUIT NUMBERS. | | | | | | |
| | | | HASH MARKS ON CONDUIT INDICATE # OF #12 CURRENT CARRYING CONDUCTORS CONTAINED THEREIN. TWO #12 AND ONE #12 GROUND WIRE ARE INDICATED WHEN HASH MARKS ARE NOT SHOWN. NUMERALS ADJACENT TO HASH MARKS ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12. | | | | | | |
| | | | 2#12, 3#12, 4#12, 5#12, 6#12, 7#12. | | | | | | |
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- 1 DISCONNECT AND REMOVE EXISTING CONDUIT FROM ROOF PANEL TO AC-8.
- 2 EXISTING TO REMAIN.

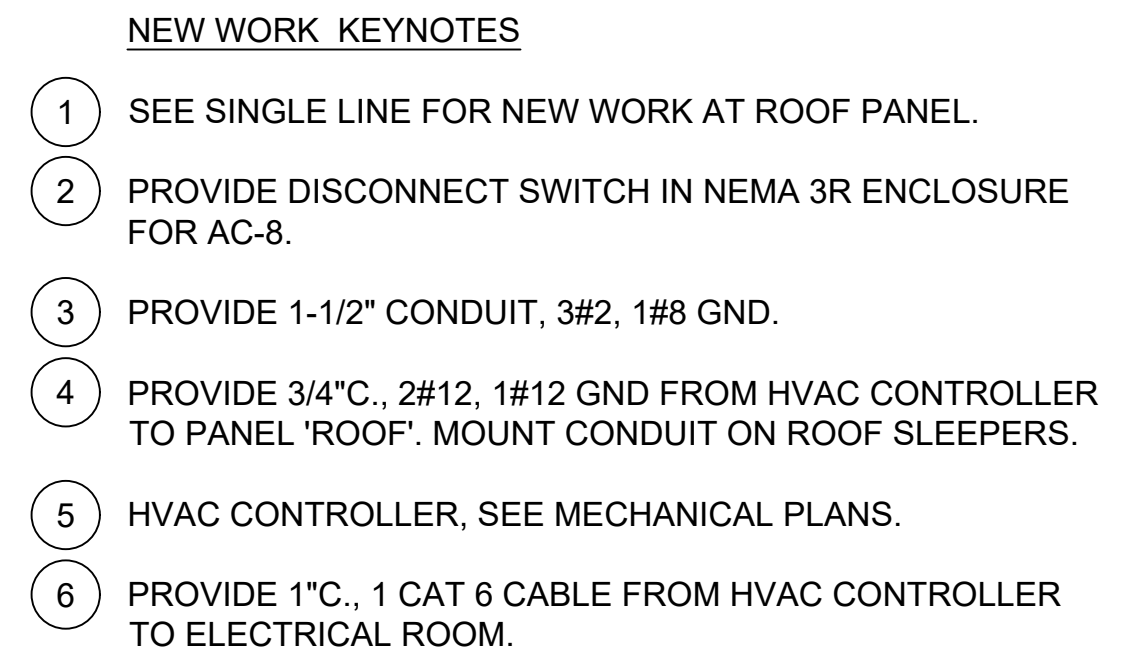


A diagram of a building footprint. The main structure is labeled "ORIGINAL BUILDING". To its right are two smaller rectangular additions labeled "ADDITION #1" and "ADDITION #2". A hatched rectangular area on the left side of the original building is indicated by an arrow and labeled "AREA OF WORK".

EPI PROJECT #: 120-486E

ELECTRICAL ROOF
PLAN - DEMOLITION

E101



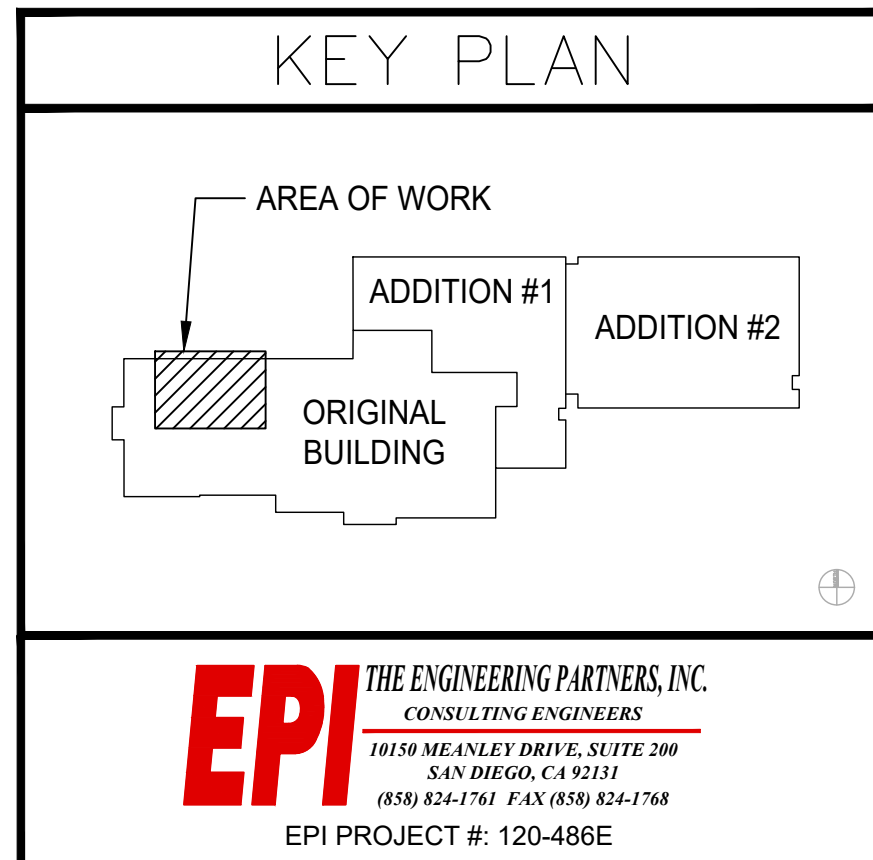
IMPERIAL COUNTY HEALTH CLINIC
AC UNIT REPLACEMENT

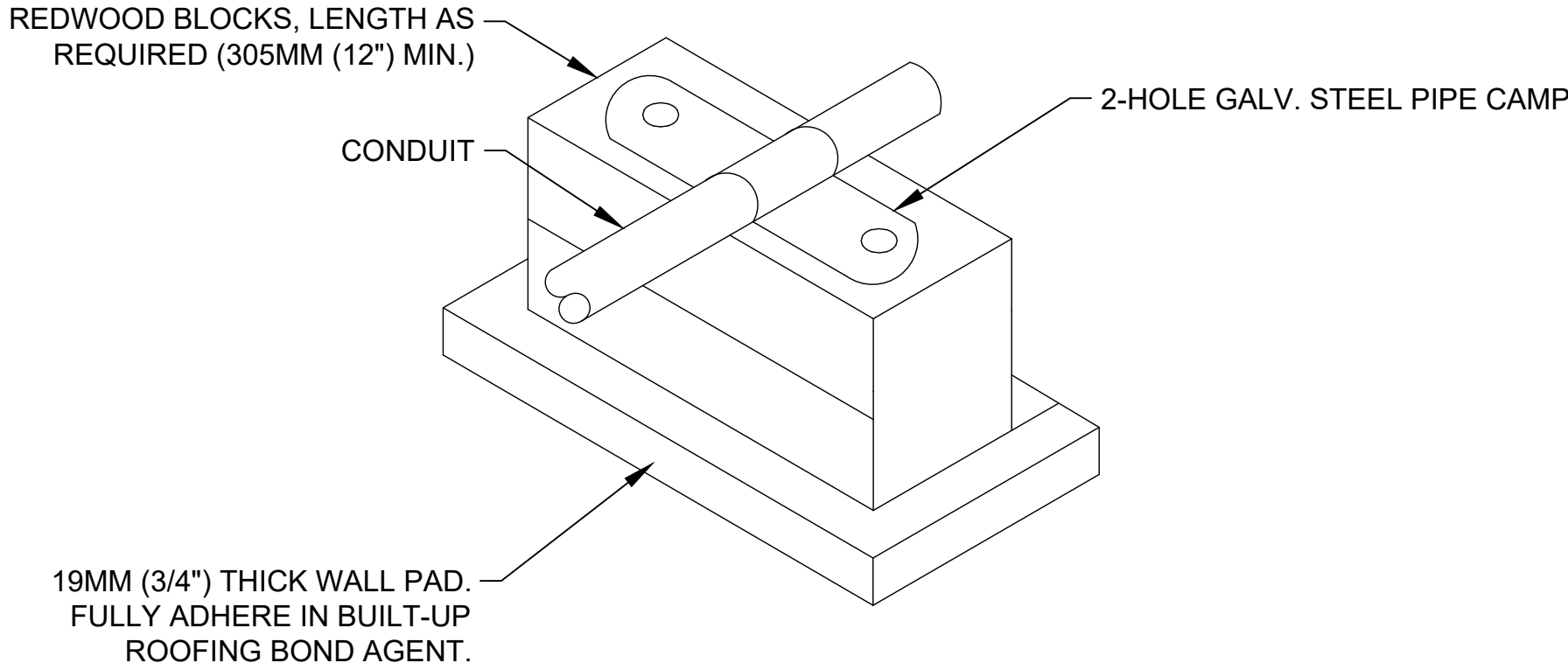
935 BROADWAY STREET
EL CENTRO, CA

ELECTRICAL ROOF
PLAN - NEW WORK

SHEET NO.

E102





1

E401

ROOF MOUNTED CONDUIT SUPPORT

SCALE: NOT TO SCALE



IMPERIAL COUNTY HEALTH CLINIC

AC UNIT REPLACEMENT

935 BROADWAY STREET

EL CENTRO, CA

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DRAWING TITLE

ELECTRICAL DETAILS

SHEET NO.

E401

NAILING SCHEDULE

061000-0001
(UNLESS OTHERWISE NOTED ON PLANS)

COMMON NAILS SHALL BE USED FOR NAILING AT TYPICAL CONNECTIONS NOTED BELOW (UNO).

| CONNECTION, NAIL TYPE | NAILING |
|--|--|
| JOISTS TO SILL OR GIRDER, TOENAIL | (3) 8d |
| JOISTS TO RIM JOIST, FACE NAIL | (3) 16d |
| BRIDGING TO JOIST, TOENAIL EACH END | (2) 8d |
| BLOCKING BETWEEN JOISTS/RAFTERS TO TOP PLATE, TOENAIL | (3) 8d |
| 1" x 6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL | (2) 8d |
| WIDER THAN 1" x 6" SUBFLOOR TO EACH JOIST, BLIND & FACE NAIL | (3) 8d |
| 2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL | (2) 16d |
| SILL PLATE TO JOIST OR BLOCKING, FACE NAIL | 16d @ 16" OC |
| TOP PLATE TO STUD, END NAIL | (2) 16d, TYP. UNO (4) 16d @ 2x10 STUDS |
| STUD TO SILL PLATE | (4) 8d TOENAIL OR (2) 16d END NAIL, TYP. UNO (7) 8d TOENAIL OR (4) 16d END NAIL @ 2x10 STUDS (2) 20 END NAIL @ 3x SILL PLATE |
| DOUBLE STUDS, FACE NAIL | 16d @ 24" OC |
| DOUBLE TOP PLATES, FACE NAIL | 16d @ 16"OC |
| TOP PLATES, LAPS, FACE NAIL | (8) 16d UNO (18) 16d @ SHEARWALL LOCATIONS, UNO |
| TOP PLATES AT INTERSECTIONS, FACE NAIL | (2) 16d |
| CONTINUOUS HEADER, TWO PIECES | 16d @ 16"OC ALONG EA EDGE |
| CEILING JOISTS TO PLATE, TOENAIL | (3) 8d |
| CONTINUOUS HEADER TO STUD, TOENAIL | (4) 8d |
| CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL | (3) 16d |
| CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL | (3) 16d |
| RAFTER TO PLATE, TOENAIL | (3) 8d |
| RIM JOIST TO TOP PLATE, TOENAIL | 8d @ 6" OC |
| JACK RAFTER TO HIP, FACE NAIL | (2) 16d |
| 1" BRACE TO EACH STUD & PLATE, FACE NAIL | (2) 8d |
| ROOF RAFTER TO 2x RIDGE BEAM, FACE NAIL | (2) 16d |
| 1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL | (3) 8d |
| WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL | (3) 8d |
| 2" PLANKS | 16d @ EA BEARING |
| BUILT-UP CORNER STUDS | 16d @ 24" OC |
| BUILT-UP GIRDERS AND BEAMS | 20d @ 32"OC @ TOP & BOTT & STGRD (2) 20d @ ENDS & @ EA SPLICE (2) 16 @ EA BEARING |

| NAIL SCHEDULE (COMMON NAILS) | | |
|------------------------------|---------------|-------------|
| SIZE | DIAMETER (IN) | LENGTH (IN) |
| 8d | 0.131 | 2 1/2 |
| 10d | 0.148 | 3 |
| 12d | 0.148 | 3 1/4 |
| 16d | 0.162 | 3 1/2 |
| 20d | 0.192 | 4 |

ROUGH CARPENTRY / WOOD

01000-0002

- ALL GRADES SPECIFIED ARE MINIMUM GRADES REQUIRED. DOUGLAS FIR-LARCH SHALL BE GRADED BY A GRADING AGENCY CERTIFIED BY THE ALSG TO THE WCLIB OR WWPA GRADING RULES, CONFORMING TO DOC PS 20. REDWOOD SHALL BE GRADED BY THE CALIFORNIA REDWOOD ASSOCIATION, REDWOOD INSPECTION SERVICE.
- WOOD SPECIES SPECIFICATIONS ("DP" INDICATES DOUGLAS FIR-LARCH CONFORMING TO DOC PS20):

| | |
|---|-------------|
| NON-LOAD-BEARING STUDS, TOP PLATES, BLOCKING, FURRING AND BRACING | DF #2 |
| JOISTS, RAFTERS, PURLINS, BEAMS & POSTS | DF #1 (UNO) |
| LOAD-BEARING STUDS (UNO) | |
| HEIGHT NOT EXCEEDING 15' | DF #2 |
| HEIGHT EXCEEDING 15' | DF #1 |
- MOISTURE CONTENT OF SAWN LUMBER SHALL NOT EXCEED 19% WHEN FRAMING STARTS OR SHEATHING IS APPLIED. ANY NONCOMPLIANT WORK SHALL BE REJECTED AND REFRAMED WITH ACCEPTABLE LUMBER.
- ARCHITECTURALLY EXPOSED TIMBERS 4" NOMINAL IN THE LEAST DIMENSION SHALL NOT CONTAIN BOXED HEART.
- PROVIDE FIRE-RETARDANT-TREATED (FRT) LUMBER AND WOOD STRUCTURAL PANELS PER CBC SECTION 2303.2 WHERE INDICATED BY ARCHITECT.
- WOOD MEMBERS SHALL BE PRESERVATIVE-TREATED (PT) OR NATURALLY DURABLE (WITH APPROVAL OF EOR) WHERE EXPOSED TO WEATHER AND IN ACCORDANCE WITH CBC SECTION 2304.12. SILL PLATES SHALL BE PRESERVATIVE-TREATED DOUGLAS FIR #2. END CUTS AND HOLES IN PT SILL PLATES SHALL BE TREATED.
- FASTENERS, INCLUDING NUTS AND WASHERS, FOR PRESERVATIVE-TREATED WOOD, WOOD EXPOSED TO WEATHER, AND FIRE-RETARDANT-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHTS FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A153. EXCEPTIONS: FASTENERS OTHER THAN NAILS, TIMBER RIVETS, WOOD SCREWS AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B695, CLASS 55 MINIMUM, AND PLAIN CARBON STEEL FASTENERS, INCLUDING NUTS AND WASHERS, IN SBX/DOT AND ZINC-BORATE PRESERVATIVE-TREATED WOOD IN AN INTERIOR, DRY ENVIRONMENT SHALL BE PERMITTED.
- UNLESS NOTED OTHERWISE, SILL FASTENERS FOR INTERIOR NON-STRUCTURAL WALLS MAY BE 0.157" DIAMETER x 1 1/4" EMBED PDF's AT 16"OC.
- SILL PLATES SHALL BE BOLTED TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS AT 48" OC MAX. UNO, WITH A BOLT BETWEEN 7 x BOLT DIAMETER (4 3/8" MIN) AND 12" FROM THE END OF EACH PIECE OF SILL (2 BOLTS MIN EACH PIECE). PIECE OF SILL SHALL BE CONSIDERED ENDED WHERE PLATE IS CUT OVER ONE-THIRD OF CROSS-SECTION.
- ANCHOR BOLTS FOR BEARING WALLS SHALL HAVE 9" EMBEDMENT (UNO) MEASURED FROM TOP OF SLAB.
- ALL BOLTS IN WOOD SHALL BE ASTM A307 STANDARD BOLTS, UNO. BOLTS AND SCREWS SHALL BE TIGHTENED AT TIME OF ERECTION AND RETIGHTENED BEFORE CLOSING IN OR AT THE COMPLETION OF THE JOB. HOLES IN WOOD AND STEEL MEMBERS FOR BOLTS SHALL BE THE NOMINAL BOLT DIAMETER PLUS 1/16".
- NAIL SPACING SHALL NOT BE LESS THAN THE REQUIRED PENETRATION. EDGE DISTANCES AND END DISTANCES SHALL NOT BE LESS THAN HALF OF THE REQUIRED PENETRATION. ALL NAIL SPACING, EDGE DISTANCES, AND END DISTANCES SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD. HOLES FOR NAILS, WHERE NECESSARY TO PREVENT SPLITTING, SHALL BE BORED OF A DIAMETER SMALLER THAN THAT OF THE NAILS.
- HOLES IN WOOD FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME DIAMETER AND DEPTH AS THE SHANK. HOLES FOR THE THREADED PORTION SHALL BE BORED WITH A BIT DIAMETER EQUAL TO 40% TO 70% OF THE SHANK DIAMETER IN DOUGLAS FIR. FOR OTHER WOOD SPECIES, REFER TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS).
- LAG SCREWS AND SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
- STANDARD CUT STEEL WASHERS SHALL BE PROVIDED UNDER HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS WHICH BEAR ON WOOD. SEE SHEAR WALL SCHEDULE FOR WASHER REQUIREMENTS AT SHEAR WALL SILL BOLTS WHERE OCCUR.
- STUD BEARING WALLS AND PARTITIONS SHALL HAVE DOUBLE TOP PLATES LAPPED AT INTERSECTIONS. JOINTS IN UPPER AND LOWER MEMBERS OF DOUBLE TOP PLATES SHALL BE STAGGERED AT LEAST 4'-0".
- NOTCHING AND HOLES SHALL NOT BE ALLOWED EXCEPT AS DETAILED ON THESE PLANS OR AS APPROVED BY THE EOR.
- INSTALL WINDOWS AND DOORS IN STUD WALLS AFTER DEAD LOADS ARE APPLIED, AND PROVIDE A 1/2" SHIM SPACE AT THE HEAD CONDITION.
- STRUCTURAL FLOOR, ROOF AND WALL SHEATHING SHALL BE APA-RATED AND SHALL CONFORM TO DOC PS1 OR PS2.
- EXTERIOR STUD WALLS SHALL BE COMPLETELY SHEATHED WITH 15/32" SHEATHING, EXPOSURE-1 (32/16), TYPICAL, UNO.
- INTERIOR BEARING WALLS SHALL BE SHEATHED WITH 1/2" GYP BOARD EACH SIDE, FULL HEIGHT, UNO.
- ALL STRUCTURAL WALL SHEATHING SHALL BE SPLICED ON 2" NOMINAL BLOCKING AT HORIZONTAL JOINTS, UNO.
- AT FLOOR FRAMING, PROVIDE BRIDGING OR FULL-HEIGHT BLOCKING AS REQUIRED BY THE BUILDING CODE.
- STRUCTURAL FLOOR AND ROOF SHEATHING SHALL BE APA-RATED EXPOSURE-1, 1/8" GAP SHALL BE PROVIDED BETWEEN ADJACENT SHEATHING PANELS. PANELS WITH GRADE STAMP INDICATION "SIZED FOR SPACING" MAY BE USED TO FACILITATE THIS REQUIREMENT. SHEATHING AT EXTERIOR DECKS SHALL BE EXTERIOR RATED PLYWOOD.

STATEMENT OF SPECIAL INSPECTIONS

01000-0003

- THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- AT A MINIMUM, ALL SPECIAL INSPECTIONS REQUIRED BY THE BUILDING CODE SHALL BE PROVIDED.
- SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVED FABRICATORS MUST SUBMIT A CERTIFICATE OF COMPLIANCE FOR OFFSITE FABRICATIONS SUCH AS STRUCTURAL STEEL, PRECAST CONCRETE, GLUED LAMINATED TIMBER, ETC.
- ALL INSPECTIONS SHALL BE PERFORMED BY INDEPENDENT SPECIAL INSPECTORS. JOB SITE VISITS BY THE STRUCTURAL ENGINEER OR BUILDING OFFICIAL DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTIONS BY A SPECIAL INSPECTOR.
- ALL INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND EOR. THE FINAL REPORTS BY THE SPECIAL INSPECTOR(S) MUST CERTIFY THAT THE STRUCTURAL SYSTEM COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS.
- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT THESE INSPECTIONS ARE PERFORMED.
- WORK REQUIRING SPECIAL INSPECTION SHALL BE INSPECTED BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS PERFORMED AND AT THE COMPLETION OF WORK. CONTINUOUS (CONT.) INSPECTION CONSISTS OF FULL-TIME INSPECTION; PERIODIC INSPECTION CONSISTS OF PART-TIME OR INTERMITTENT INSPECTION.
- THE FOLLOWING SPECIAL INSPECTIONS ARE IN ADDITION TO INSPECTIONS BY THE BUILDING OFFICIAL. THIS LIST IS NOT INTENDED TO BE ALL INCLUSIVE.

STRUCTURAL CONCRETE

PERIODIC: POST-INSTALLED AND ADHESIVE ANCHORS

EXCLUDED ITEMS (DESIGN BUILD) MEP SUPPORTS

000000-0000

THE SUPPORT AND BRACING OF MEP SYSTEM IS DESIGN BUILD BY CONTRACTOR. ALL BLOCKING / SISTERING / ETC. TO SUPPORT THE SYSTEM IS BY SUBCONTRACTOR. LOADS FROM SUPPORTS AS DETERMINED BY CONTRACTOR WILL REQUIRE STRENGTHENING OF THE ROOF IF THEY EXCEED 2 PSF OVER THE AREA SUPPORTED BY THE ROOF MEMBER UNDER CONSIDERATION. SEE --S-- FOR HANGER FROM TYPICAL BLOCKING.

GENERAL

01000-0004

- REFER TO THE TYPICAL DETAIL SHEETS FOR TYPICAL DETAILS OF CONSTRUCTION. TYPICAL DETAILS APPLY TO ALL CONSTRUCTION UNLESS SPECIFICALLY NOTED OR SHOWN OTHERWISE. WHERE CONDITIONS REQUIRE MODIFICATIONS OF A TYPICAL DETAIL, THE CONTRACTOR SHALL SUBMIT MODIFIED DETAIL FOR APPROVAL BY THE ENGINEER OF RECORD PRIOR TO FABRICATION AND INSTALLATION. DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE OF SAME NATURE AS THOSE SHOWN FOR SIMILAR CONSTRUCTION.
- CONTRACTOR SHALL CONSIDER THE PROJECT SPECIFICATIONS AS PART OF THE CONTRACT DOCUMENTS. WHERE INFORMATION IS CONFLICTING, SPECIFIC DETAILS SHALL GOVERN OVER TYPICAL DETAILS WHICH SHALL GOVERN OVER GENERAL NOTES WHICH SHALL GOVERN OVER SPECIFICATIONS.
- ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL DIMENSIONS. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE OMITTED OR NOT CLEAR, CONTACT THE ARCHITECT OF RECORD OR SEOR. ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. DIMENSIONS ARE TO THE FACE OF STUDS, AND TO THE CENTERLINE OF COLUMNS UNO.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE EOR OF ANY CONFLICTS BETWEEN THE STRUCTURAL DRAWINGS AND OTHER DRAWINGS, OR EXISTING CONDITIONS NOT SHOWN OR DIFFERENT FROM THOSE SHOWN ON DRAWINGS, PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL NOT ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE SCOPE THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.
- THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE CONSTRUCTION AND ALL ADJACENT PROPERTIES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR EOR SHALL NOT INCLUDE OBSERVATION OF THE ABOVE ITEMS.
- SUBSTITUTION REQUESTS FOR MATERIALS AND PRODUCTS SPECIFIED ON THE STRUCTURAL DRAWINGS MAY BE CONSIDERED WITH MATERIALS AND PRODUCTS HAVING EQUIVALENT OR GREATER CAPACITY AND PERFORMANCE. CURRENT EVALUATION REPORTS AND PRODUCT INFORMATION SHALL BE PROVIDED TO THE SEOR DEMONSTRATING THE REQUIRED CAPACITY AND PERFORMANCE OF THE MATERIAL TO BE SUBSTITUTED. WRITTEN APPROVAL FROM THE EOR SHALL BE OBTAINED PRIOR TO THE SUBSTITUTION OF ANY MATERIAL OR PRODUCT SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT. THE ARCHITECT, SEOR, AND THE OWNER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
- ALL WORK IS NEW (N) UNLESS INDICATED AS EXISTING (E).
- CONSTRUCTION MATERIALS SHALL BE DISTRIBUTED WHEN PLACED ON THE STRUCTURE SUCH THAT LOADS DO NOT EXCEED DESIGN LIVE LOADS OR RESULT IN AN UNBALANCED CONDITION.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE SEOR FOR REVIEW PRIOR TO FABRICATION. REFER TO THE PROJECT SPECIFICATIONS FOR SHOP DRAWING REQUIREMENTS AND SUBMITTALS. REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE SEOR IS FOR GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS. THE CONTRACTOR WILL REMAIN RESPONSIBLE FOR ALL ERRORS OF DETAILING AND FABRICATION, AND FOR CORRECT FITTING OF ALL STRUCTURAL MEMBERS, INCLUDING COORDINATION WITH OTHER TRADES. SHOP DRAWINGS AND SUBMITTALS DO NOT CONSTITUTE CHANGE ORDERS. ANY PROPOSED CHANGES TO THE STRUCTURAL DOCUMENTS MUST BE SUBMITTED IN WRITING AS A REQUEST FOR SUBSTITUTION TO THE ARCHITECT AND EOR FOR APPROVAL.
- CORE DRILLS SHALL NOT CUT ANY REINFORCING. THE CONTRACTOR IS TO COORDINATE WORK OF ALL TRADES TO ENSURE COMPLIANCE. ALL CORE DRILLS ARE TO BE PRESENTED TO THE INSPECTOR OF RECORD (IOR) FOR VERIFICATION. THE IOR IS TO DOCUMENT CORES EXAMINED INDICATING AN ABSENCE OF REINFORCING.
- STRUCTURAL JOINT DIMENSIONS SHOWN ON PLANS (EXPANSION, SEISMIC, SEPARATION, ETC (WHERE OCCURS) INDICATE THE MINIMUM CLEAR DISTANCE REQUIRED. SEE PLANS, DETAILS, AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

STRUCTURAL DESIGN CRITERIA

010000-0001 (03/2017)

- CODES:
 - ALL NEW WORK SHALL BE IN CONFORMANCE WITH THE CALIFORNIA BUILDING CODE (CBC) 2022 EDITION (TITLE 24, PART 2), INCLUDING ALL AMENDMENTS. ALL STANDARDS USED SHALL BE THE LATEST VERSION APPROVED BY THE CODE ENFORCEMENT AGENCY ON THE DATE OF THE PERMIT ISSUANCE UNLESS SPECIFICALLY NOTED OTHERWISE. THE PURPOSE OF THIS CODE IS TO, IN PART, ESTABLISH THE MINIMUM REQUIREMENTS TO SAFEGUARD THE PUBLIC HEALTH, SAFETY AND GENERAL WELFARE THROUGH STRUCTURAL STRENGTH AND STABILITY. STRUCTURES DESIGNED IN ACCORDANCE WITH THE CODE ARE LIKELY TO HAVE A LOW PROBABILITY OF COLLAPSE BUT MAY SUFFER SERIOUS STRUCTURAL AND NON-STRUCTURAL DAMAGE IF SUBJECTED TO THE DESIGN EARTHQUAKE.
- GRAVITY DESIGN LOADS:

| AREA | DEAD LOADS | LIVE LOADS (REDUCIBLE, UNO) |
|------------------|------------|-----------------------------|
| a. ROOF, UNIFORM | 18 PSF | 20 PSF |
- SEISMIC DESIGN INFORMATION:

| RISK CATEGORY II | DESIGN CAT. D | SITE CLASS D-DEFAULT |
|--|--|---|
| S _s = 1.543 a _p = 1.0 | S _s = 0.600 R _p = 2.5 | F _a = 1.200 F _v =1.700 S _{0.5} =1.234 S _{1.0} =0.680 |
- WIND DESIGN INFORMATION:

| RISK CATEGORY II | EXPOSURE C |
|--|------------|
| BASIC WIND SPEED (3 SEC GUST), V ₀ = 98 MPH | |

EXISTING CONDITIONS

000000-0000

- SEE "AS BUILT" DRAWINGS FOR EXISTING BUILDING ITEMS NOT SHOWN OR NOTED.
- FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO SHOP DRAWING PRODUCTION AND FABRICATION OF STRUCTURAL ELEMENTS.
- WHERE EXISTING CONDITIONS VARY FROM THOSE SHOWN ON THESE DRAWINGS, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUED CONSTRUCTION RELATED TO SUBJECT CONDITIONS.
- SHORE ALL EXISTING CONSTRUCTION AS REQUIRED, INCLUDING WHERE WELDING TO EXISTING STEEL FRAMING. SHORING DESIGN IS BY OTHERS.
- ALL EXISTING CONCRETE SURFACES TO BE IN CONTACT WITH NEW CONCRETE SHALL BE CLEANED AND ROUGHENED TO 1/4" MINIMUM AMPLITUDE. USE THIRD PARTY EVALUATION APPROVED BONDING AGENT ON EXISTING CONCRETE PRIOR TO PLACING NEW CONCRETE.
- VERIFY LOCATION OF EXISTING REBAR BEFORE FABRICATION USING NON-DESTRUCTIVE TESTING.
- THE GENERAL CONTRACTOR SHALL COORDINATE THE WEIGHT AND SPECIFIC LOCATION OF ALL EQUIPMENT WITH THE STRUCTURAL FRAMING. IF THE EQUIPMENT DEVIATES IN WEIGHT OR LOCATION FROM THOSE INDICATED IN THE DRAWINGS, THE STRUCTURAL ENGINEER'S APPROVAL MUST BE OBTAINED PRIOR TO INSTALLATION OF THE UNITS.
- ALL EXISTING WOOD FRAMING MEMBERS SUPPORTING NEW MECHANICAL UNITS SHALL BE INSPECTED FOR DAMAGE AND DETERIORATION PRIOR TO INSTALLATION OF THE UNITS. NOTIFY THE STRUCTURAL ENGINEER IF DAMAGE OR DETERIORATION IS DISCOVERED.

miyamoto.

5550 Baltimore Dr., Suite 100
La Mesa, CA 91942
M2310179-02

T: (619) 687-3810
miyamotointernational.com



IMPERIAL COUNTY HEALTH CLINIC
NEGATIVE PRESSURE ROOM CONVERSION

935 BROADWAY STREET
EL CENTRO, CA

JOB NO. 4205

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DRAWING TITLE

GENERAL NOTES

SHEET NO.

S001



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SHEET NO.

S101

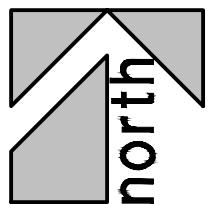
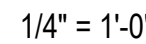
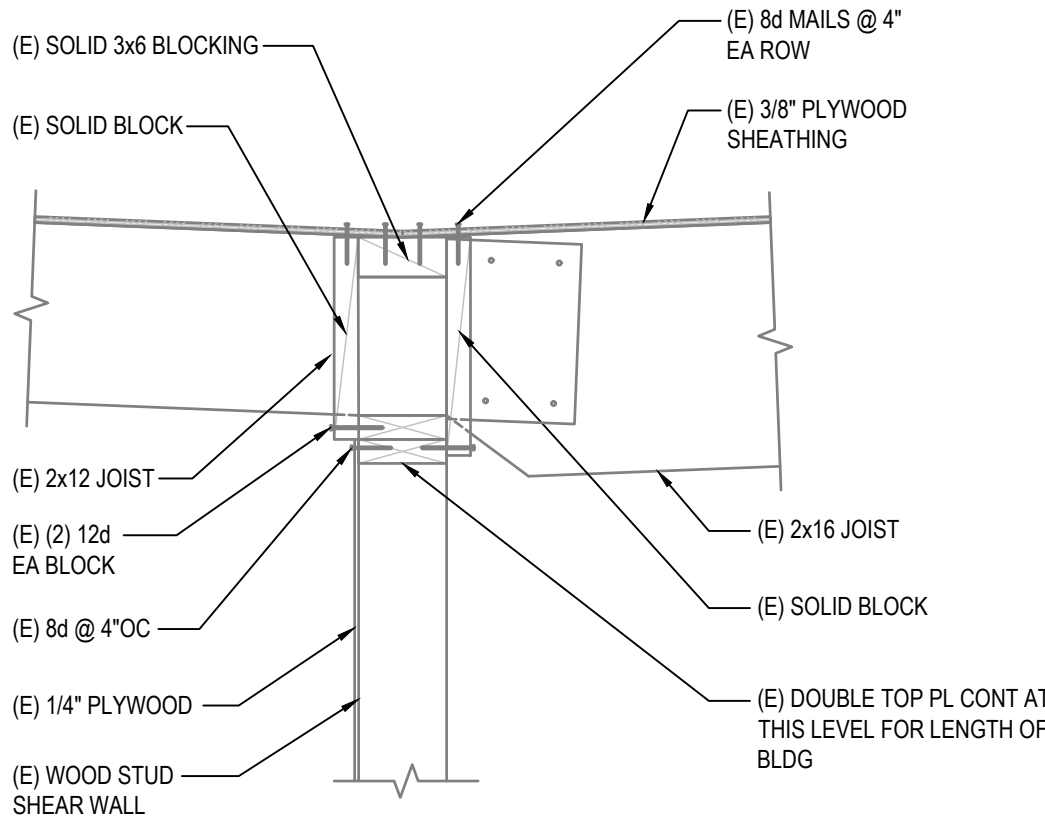


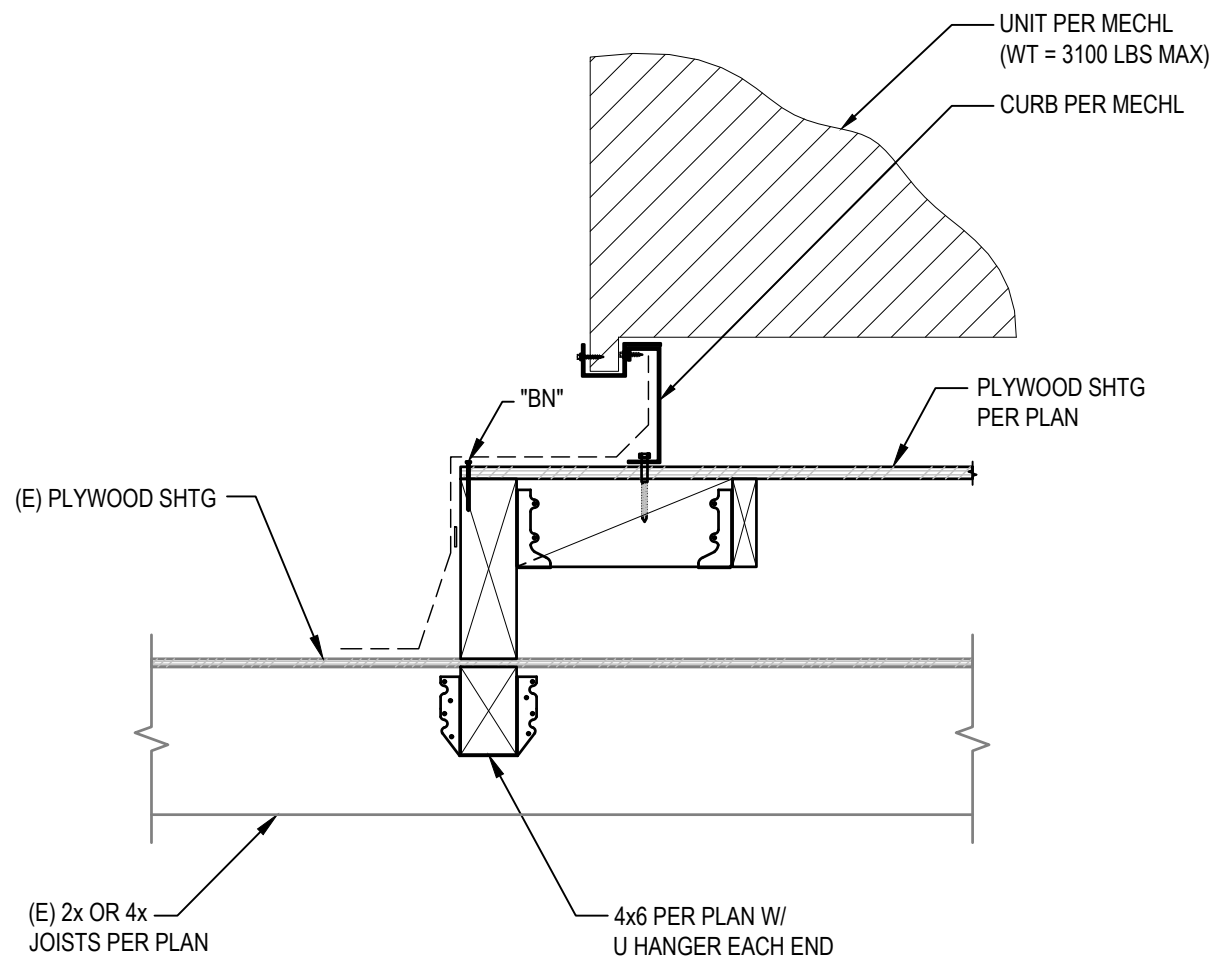
Diagram illustrating the building footprint and work area:

- AREA OF WORK:** Indicated by a hatched rectangular area on the left side of the building footprint.
- ORIGINAL BUILDING:** The central, largest section of the building footprint.
- ADDITION #1:** A rectangular section attached to the right side of the original building.
- ADDITION #2:** A rectangular section attached to the right side of Addition #1.

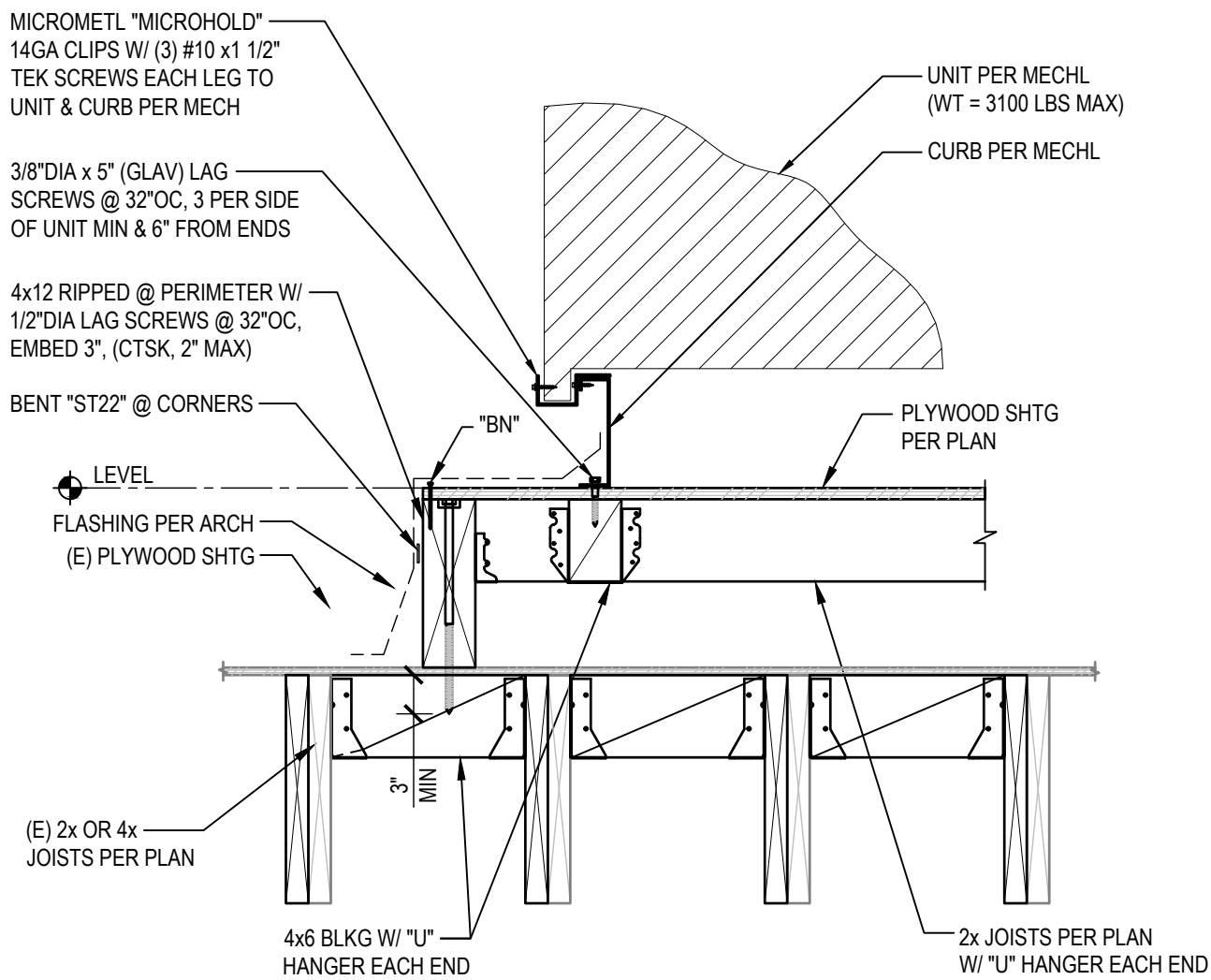




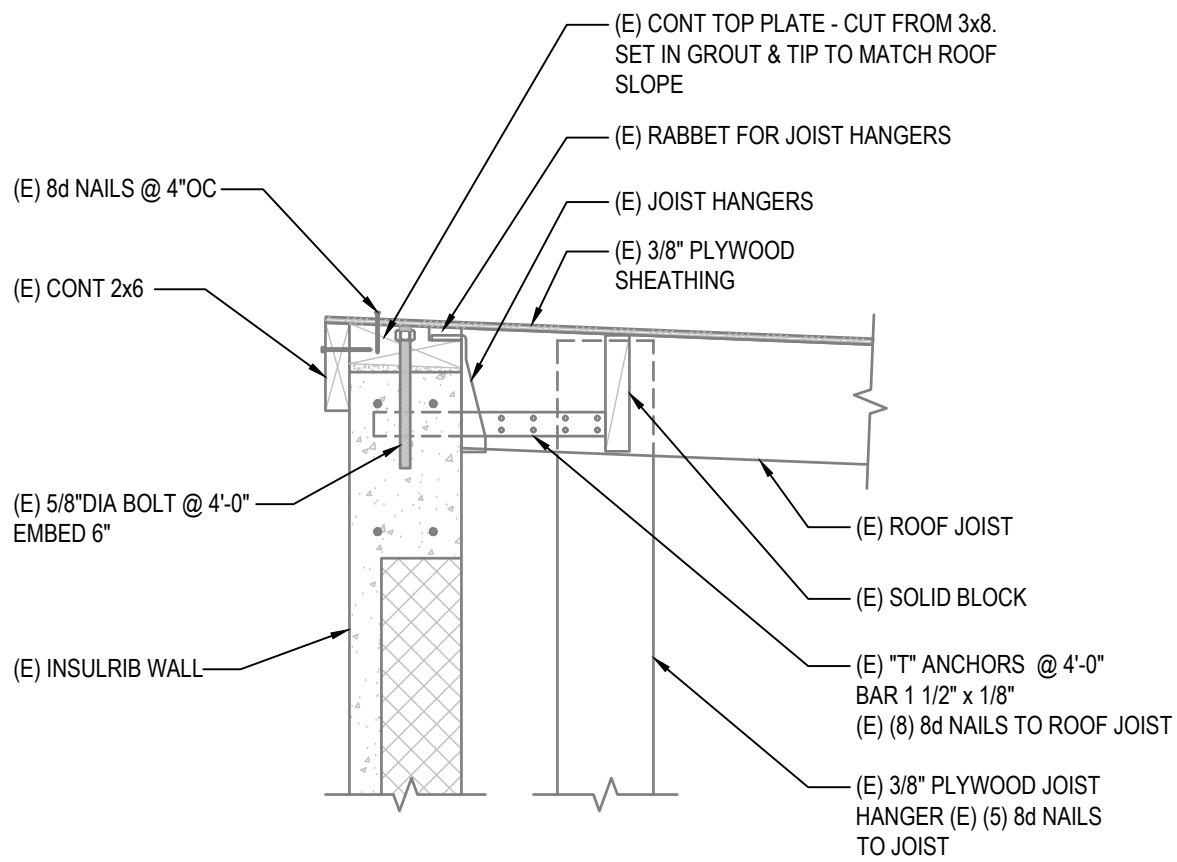
4
1"=1'-0"



1
1"=1'-0"



2
1"=1'-0"



3
1"=1'-0"

miyamoto.

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IMPERIAL COUNTY HEALTH CLINIC
NEGATIVE PRESSURE ROOM CONVERSION

935 BROADWAY STREET
EL CENTRO, CA

JOB NO. 4205

DATE: -

ISSUED

| No. | Description | Date |
|-----|-------------|------|
| 1 | - | - |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

REVISIONS

| No. | Description | Date |
|-----|-------------|------|
| △ | | |
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| △ | | |

FILE NAME: -

DRAWN BY: JM

DESIGNED BY: OG

CHECKED BY: OG

DATE: -

DRAWING TITLE

DETAILS

SHEET NO.

S501