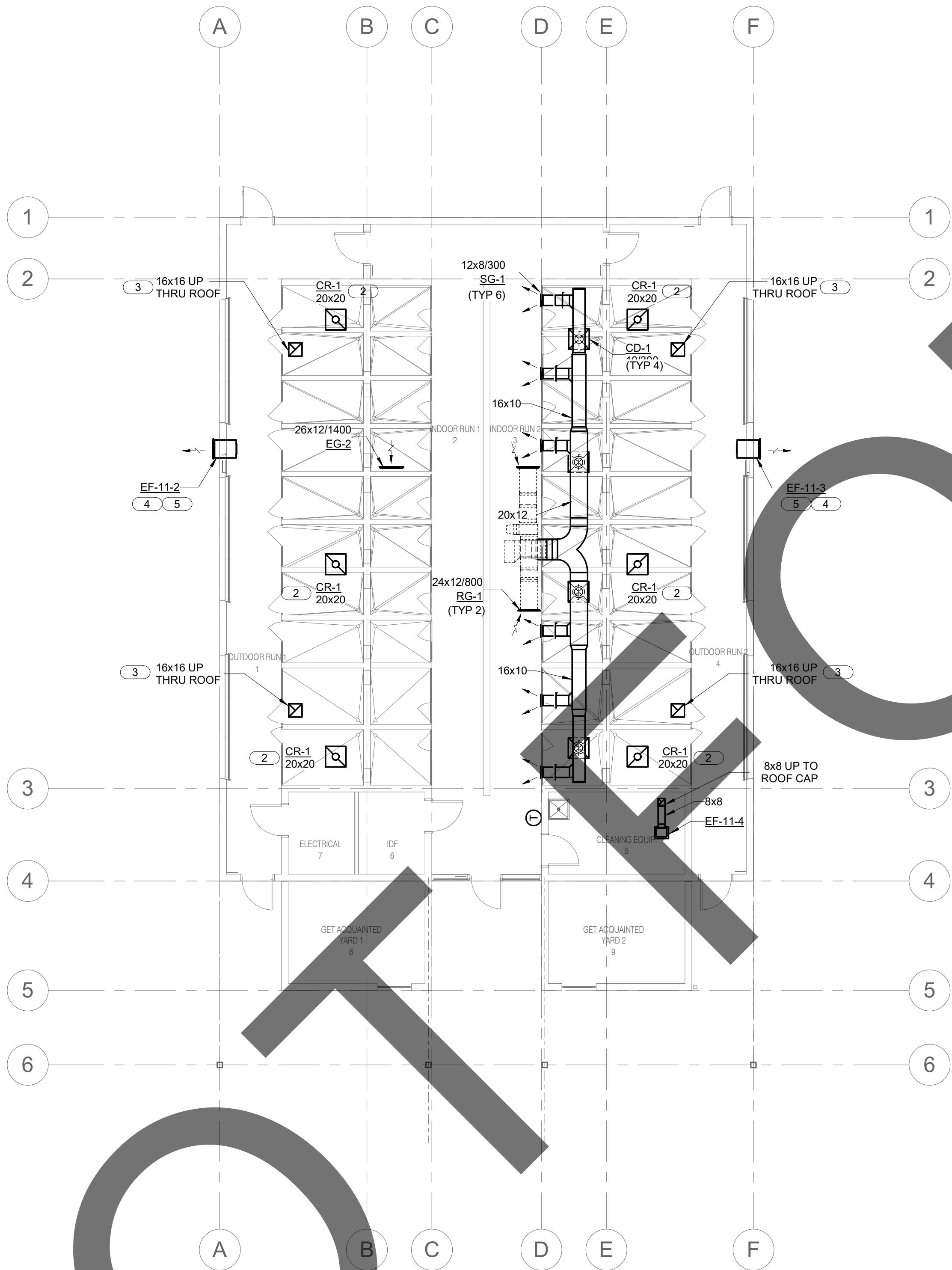
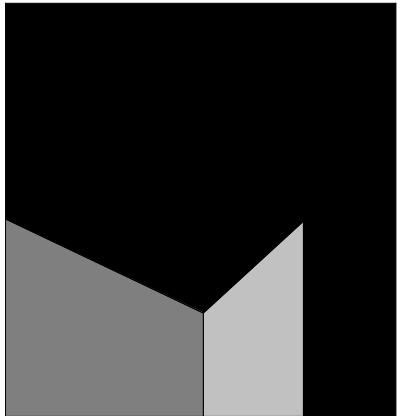




1 ADOPTION DOG BUILDING 5 MECHANICAL FLOOR PLAN
NO SCALE

KEY NOTES (#)

1. 24x24 DOOR LOUVER, SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. CEILING GRILLE OPEN TO ATTIC SPACE.
3. DUCT TO TERMINATE IN ATTIC SPACE FROM INTAKE VENTILATOR ON ROOF.
4. WALL MOUNTED EXHAUST FAN TO BE INSTALLED 6" MINIMUM BELOW CEILING.
5. COORDINATE WITH STRUCTURAL PLANS FOR OPENING DIMENSIONS IN WALL.



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#	Date	Comment
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ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number: 1227
Drawn By: Author
Checked By: PS
Issue Date: 05/17/24

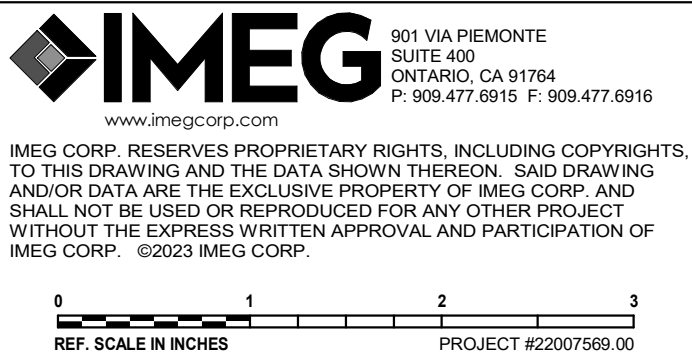
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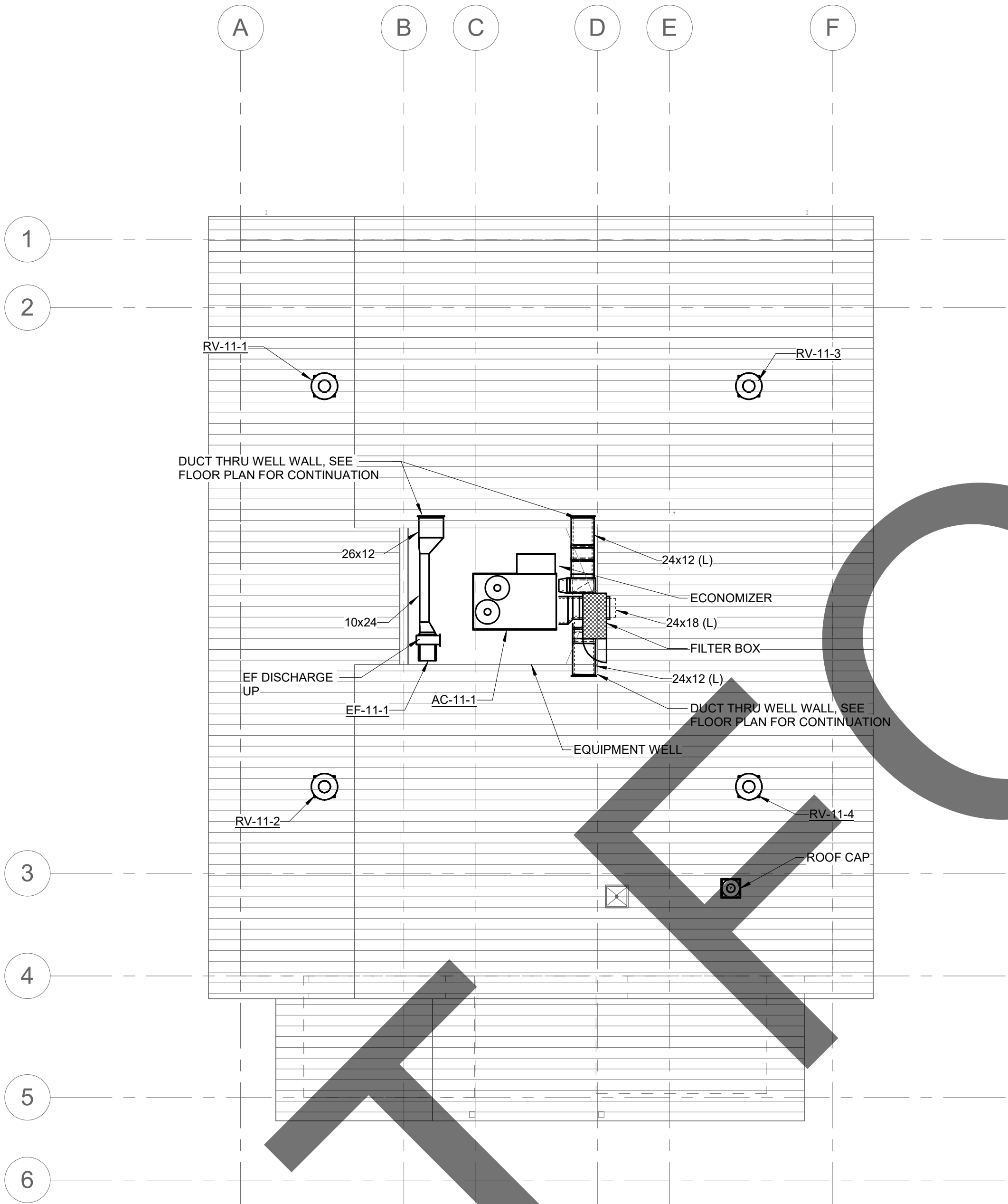
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BUILDING 5
MECHANICAL FLOOR
PLAN

sheet number

MJ-101

Sheet Of Sheets





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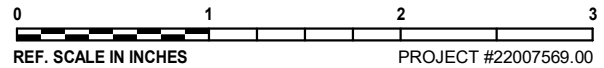
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1/8" = 1'-0"

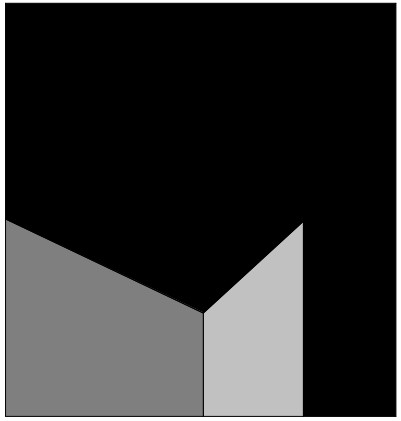


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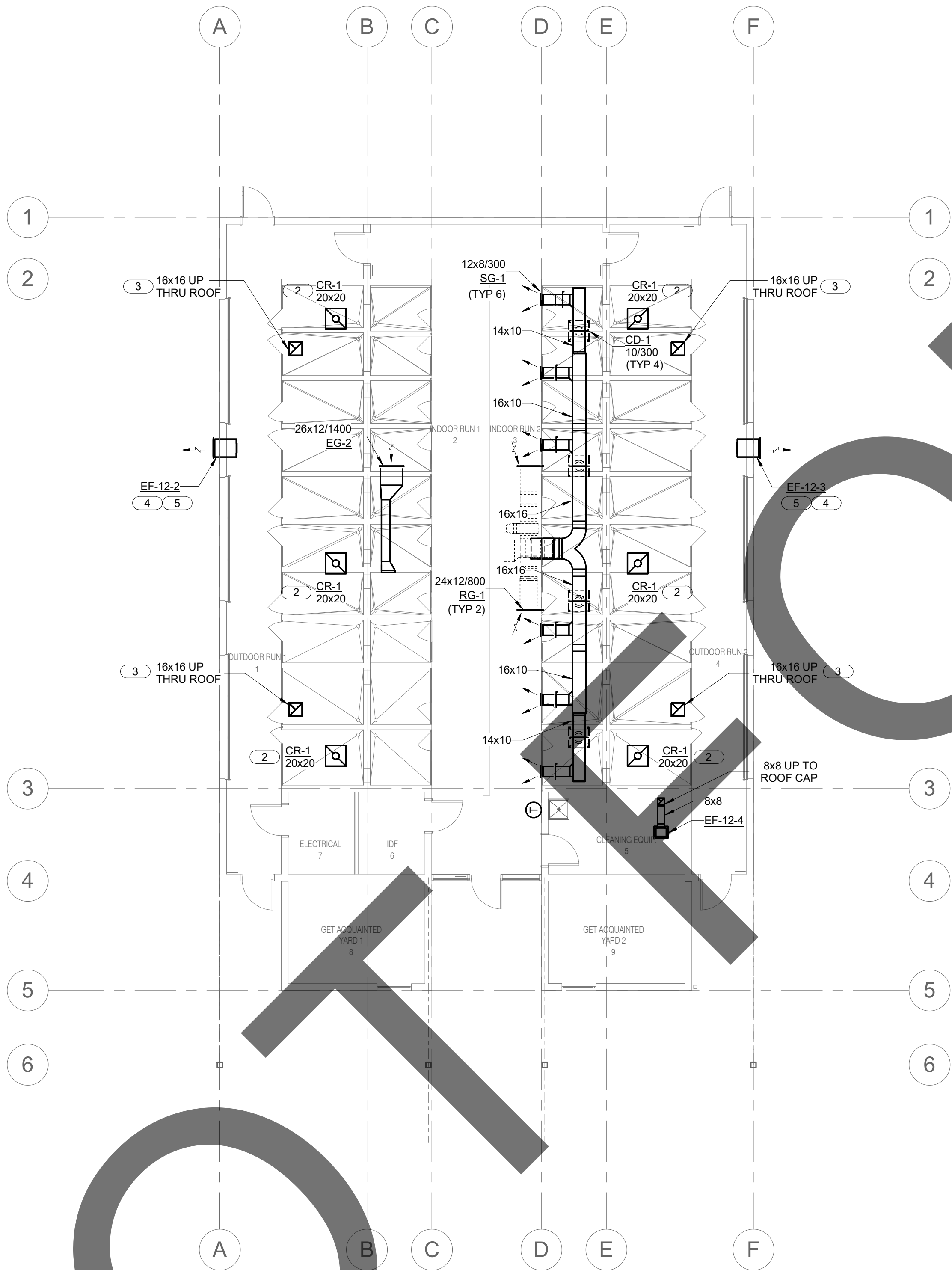
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ADOPTION DOG
BUILDING 5
MECHANICAL ROOF
PLAN

sheet number

MJ-102

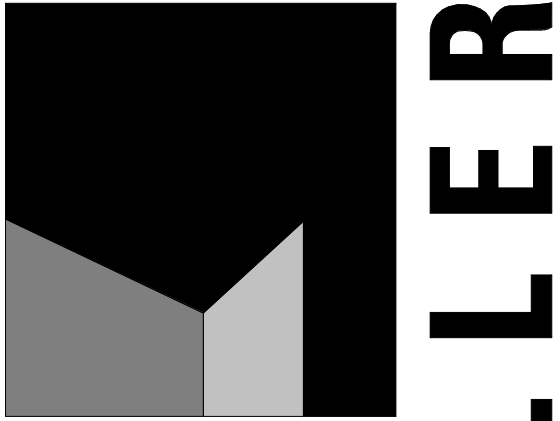
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1 ADOPTION DOG BUILDING 6 MECHANICAL FLOOR PLAN
NO SCALE

KEY NOTES (#)

1. 24x24 DOOR LOUVER, SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. CEILING GRILLE OPEN TO ATTIC SPACE.
3. DUCT TO TERMINATE IN ATTIC SPACE FROM INTAKE VENTILATOR ON ROOF.
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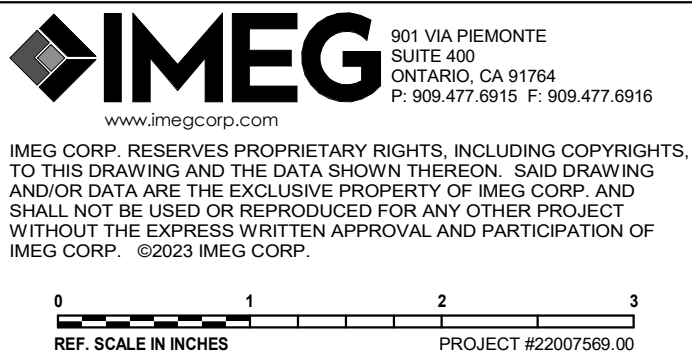
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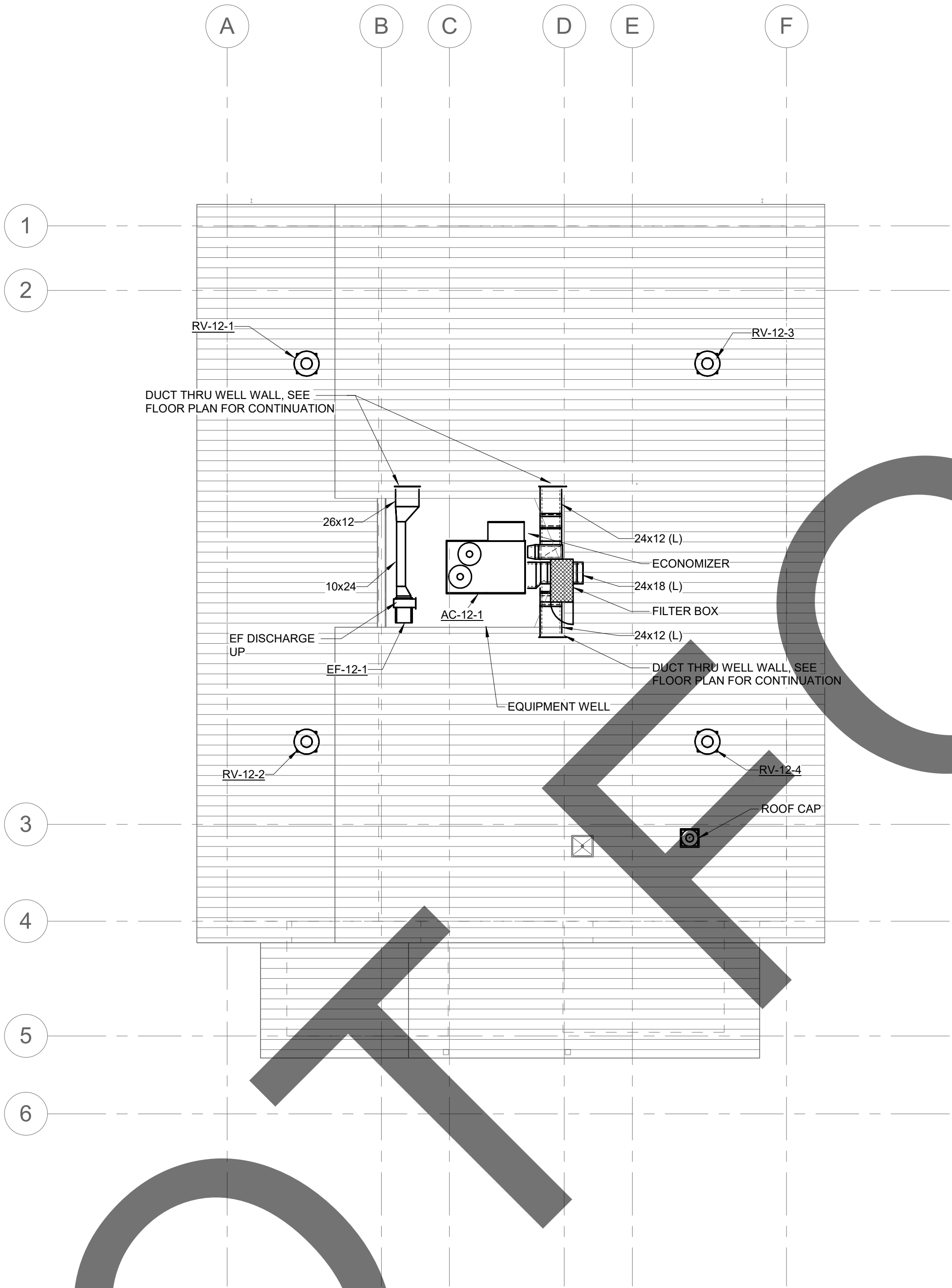
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MECHANICAL FLOOR
PLAN

sheet number

MK-101

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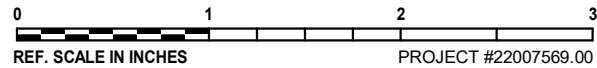
ADOPTION DOG BUILDING 6 MECHANICAL ROOF PLAN

1/8" = 1'-0"

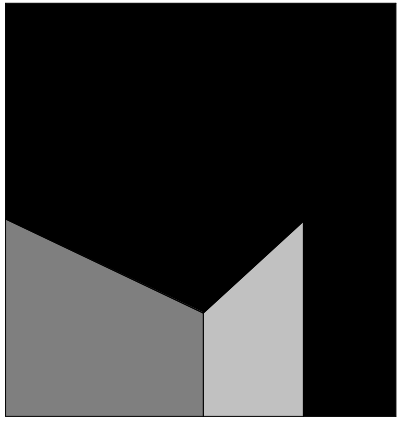


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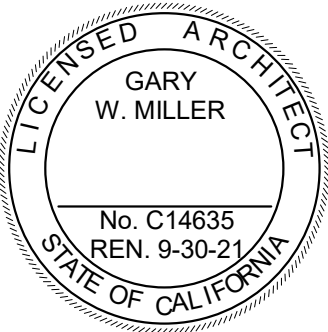


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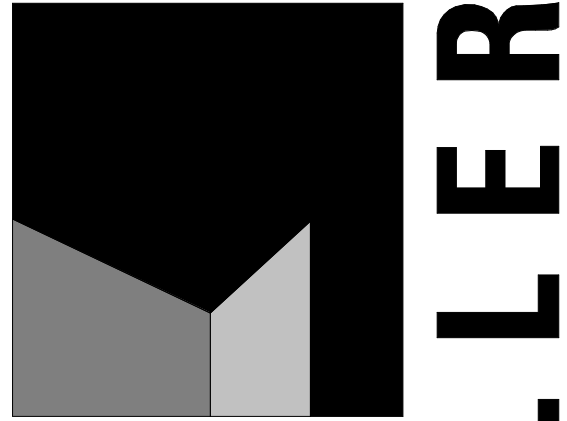
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ADOPTION DOG
BUILDING 6
MECHANICAL ROOF
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sheet name

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DETAILS

sheet number

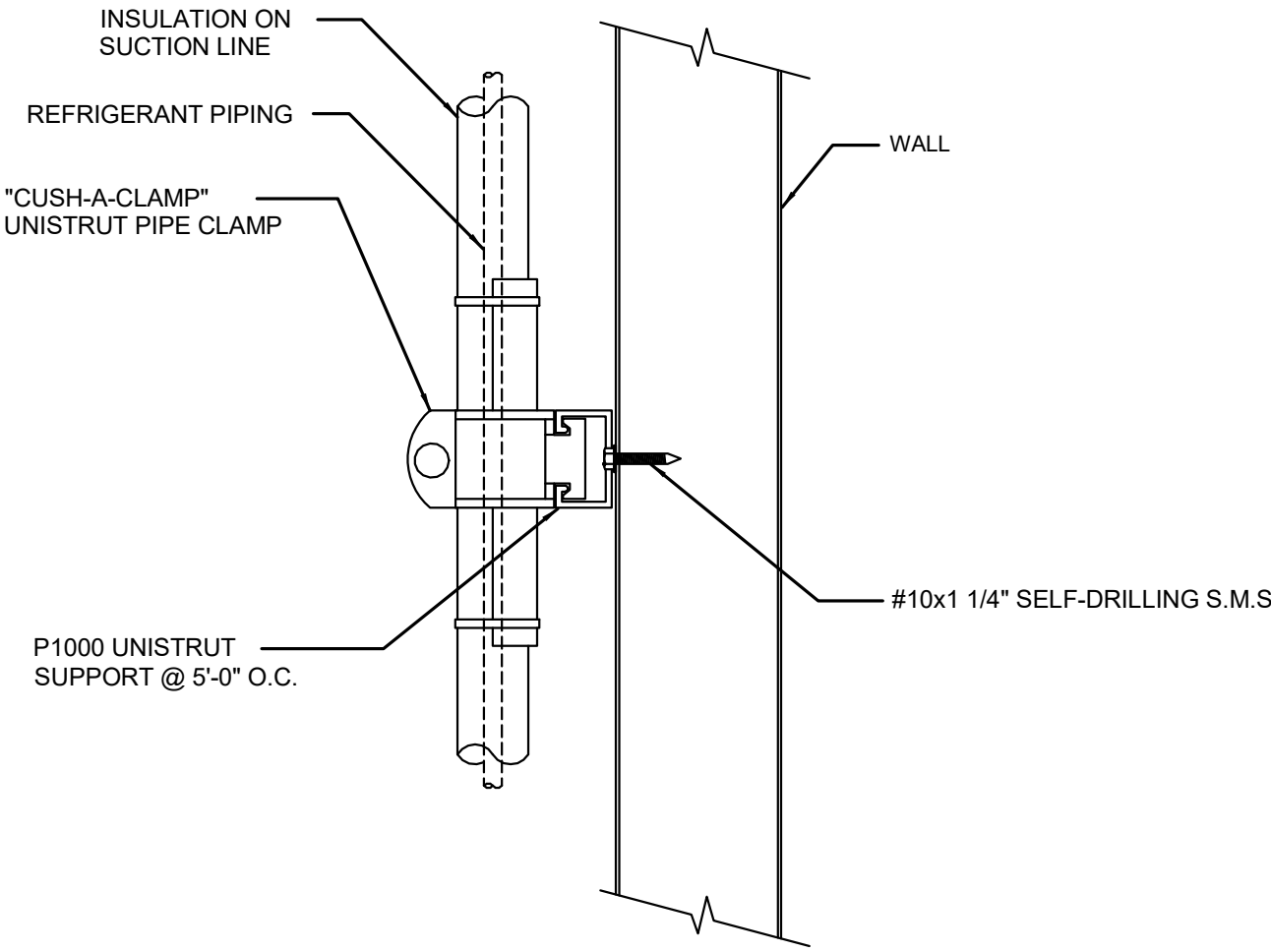
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Sheet Of Sheets

REFRIGERANT PIPE SUPPORT WALL

NTS

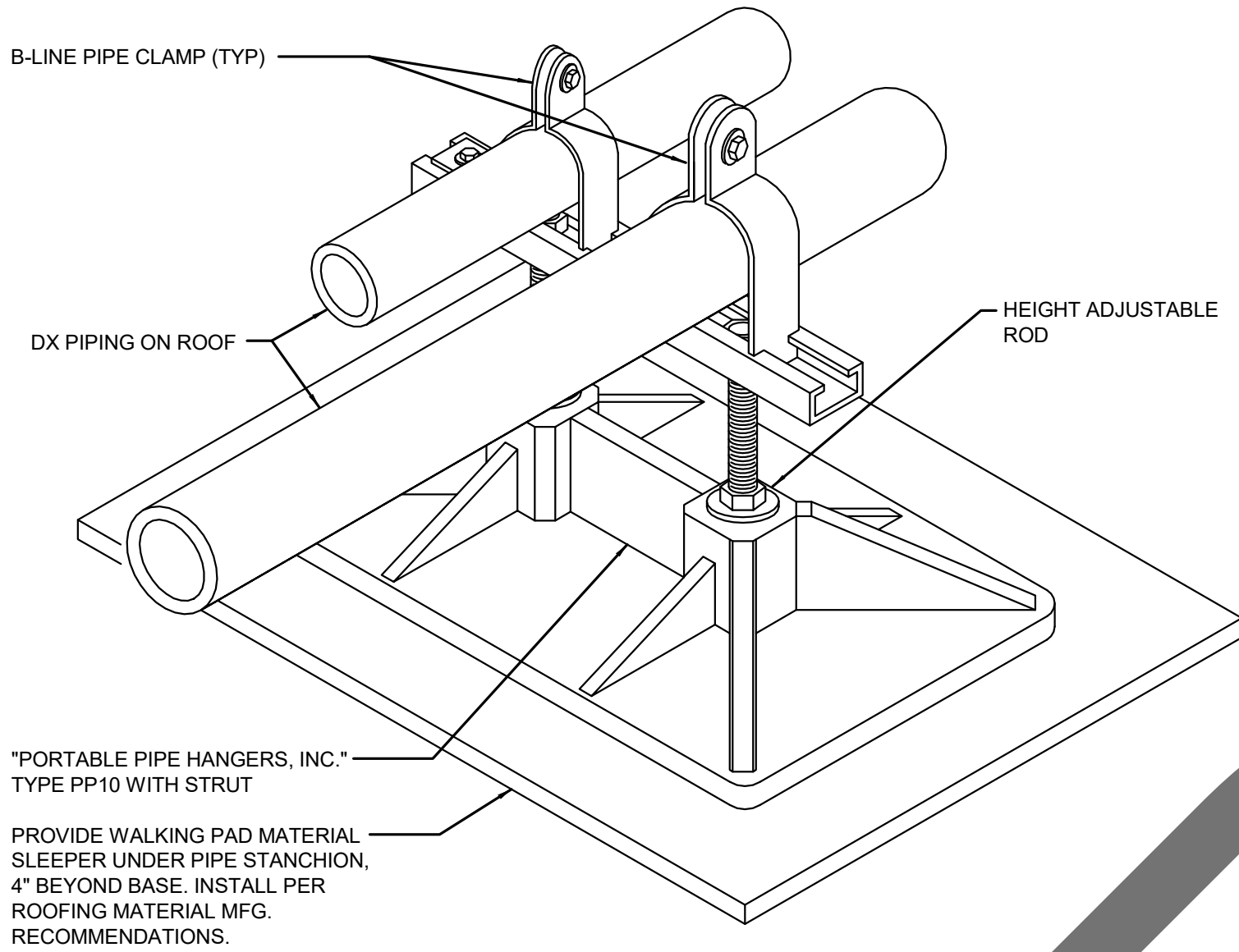
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REFRIGERANT PIPE SUPPORT ON ROOF

NTS

2

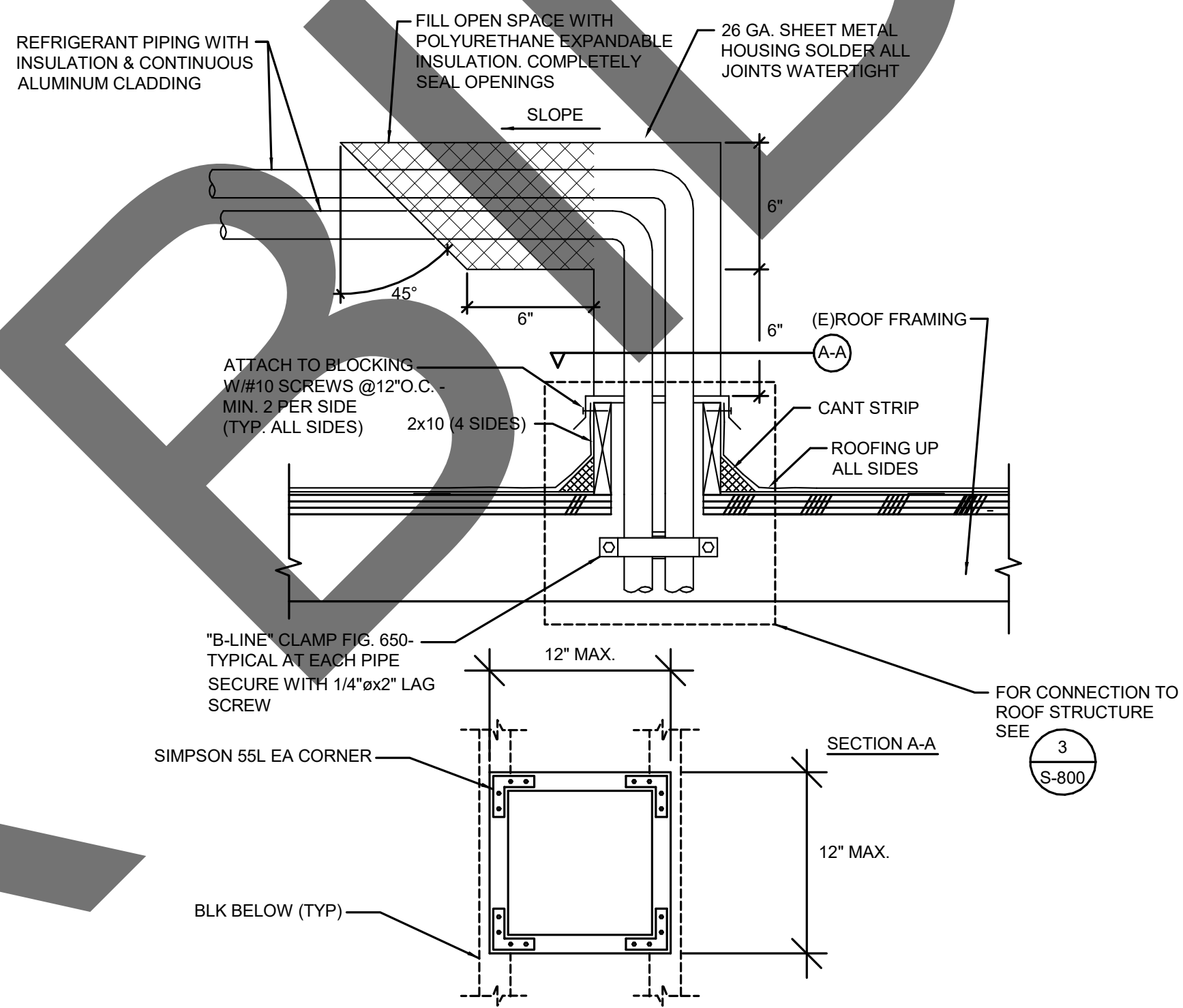


NOTE:
DETAIL SHALL NOT BE USED FOR
PIPES CONTAINING GAS OR OTHER
HAZARDOUS MATERIALS

REFRIGERANT PIPE THRU ROOF

NTS

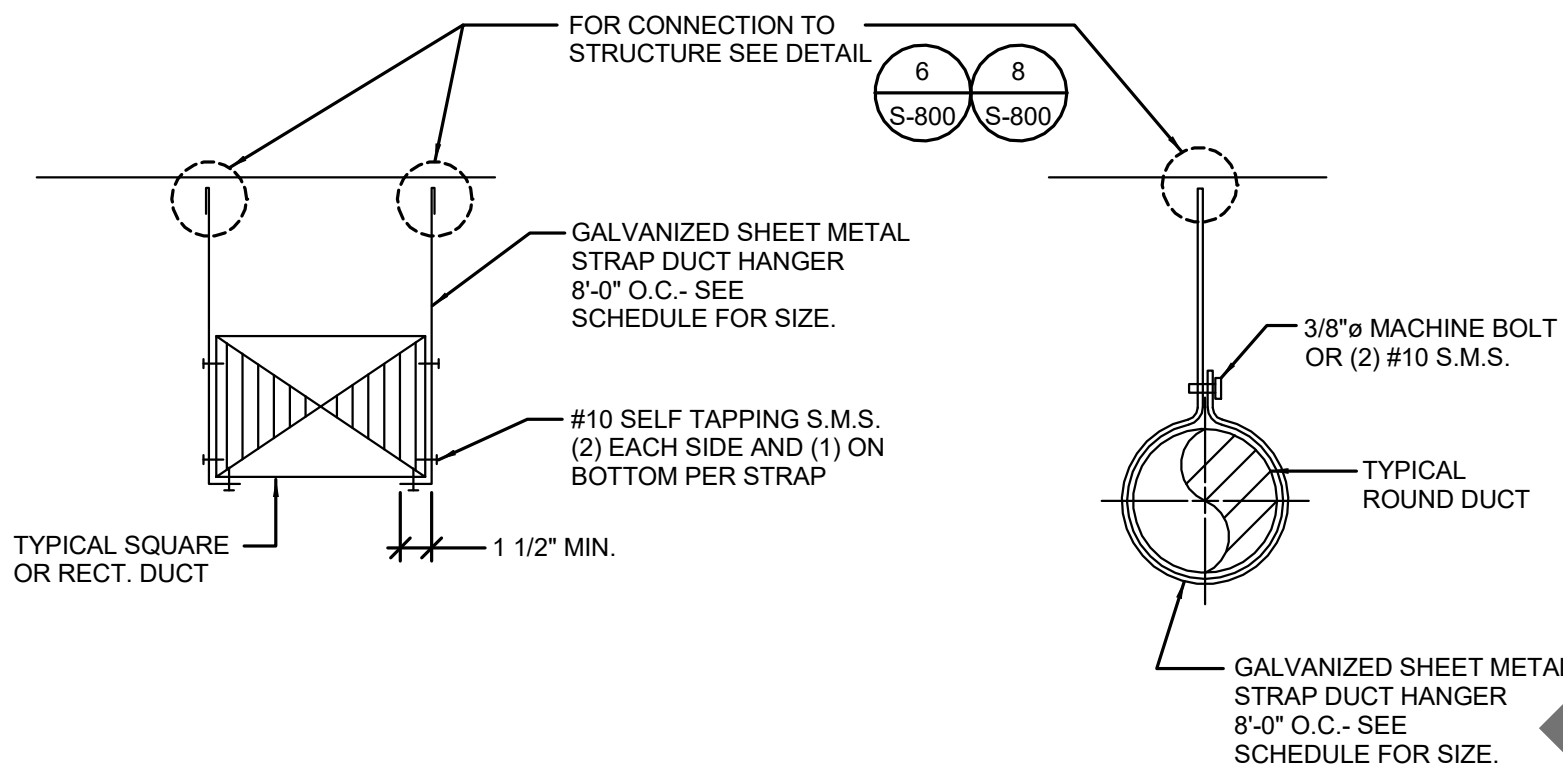
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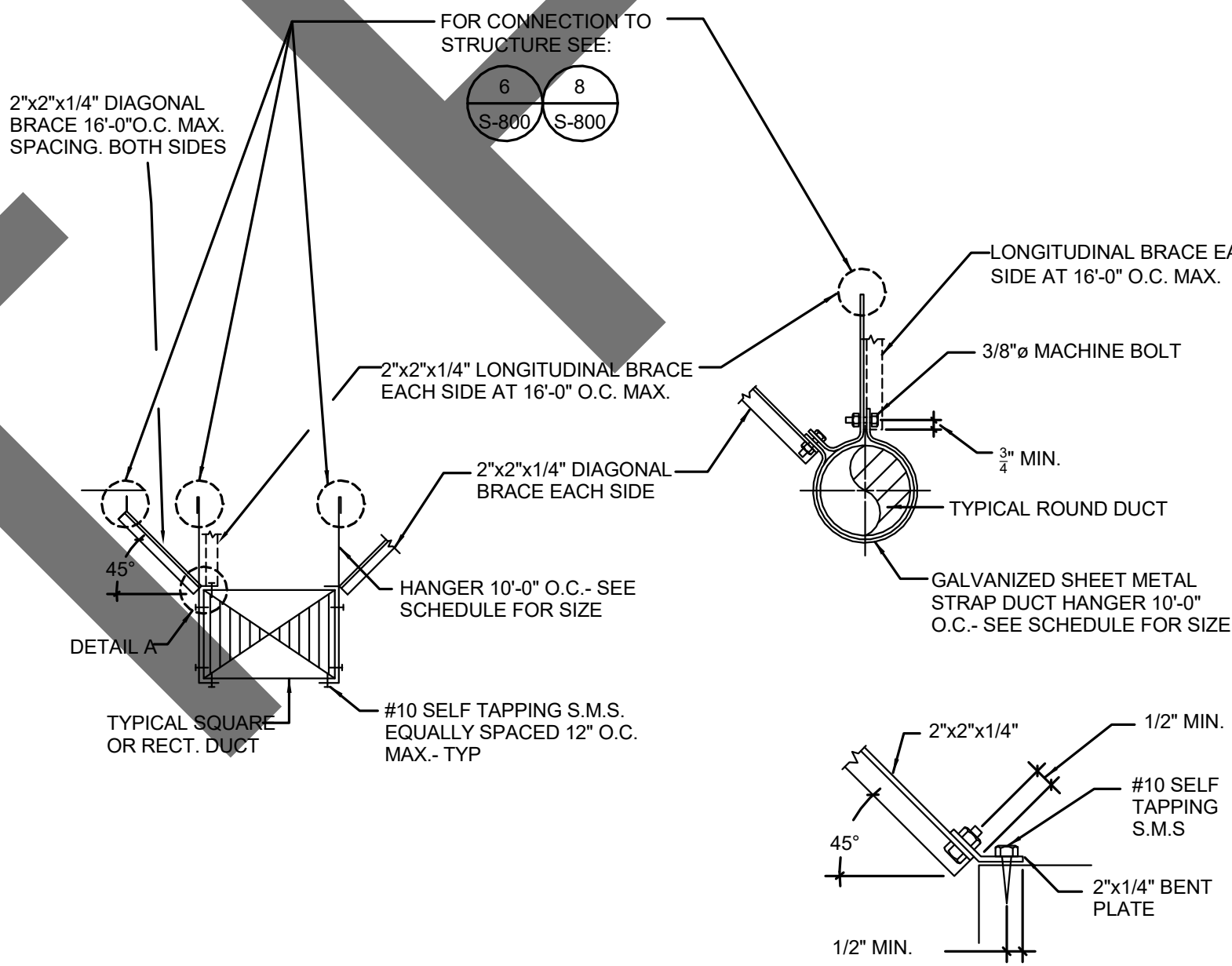
DUCTWORK SUPPORT

NTS

4



RECTANGULAR DUCT			ROUND DUCT		
MAX. OF HALF OF DUCT PERIMETER	HANGER STRAP	MAX. LOAD EACH HANGER/LBS.	DIAMETER	HANGER STRAP	MAX. LOAD EACH HANGER/LBS.
P/2 = 30"	1"x 22 GA.	100	UP TO 24"	1"x 22 GA.	100
P/2 < 59"	1"x 20 GA.	100	25" TO 33"	1"x 20 GA.	100



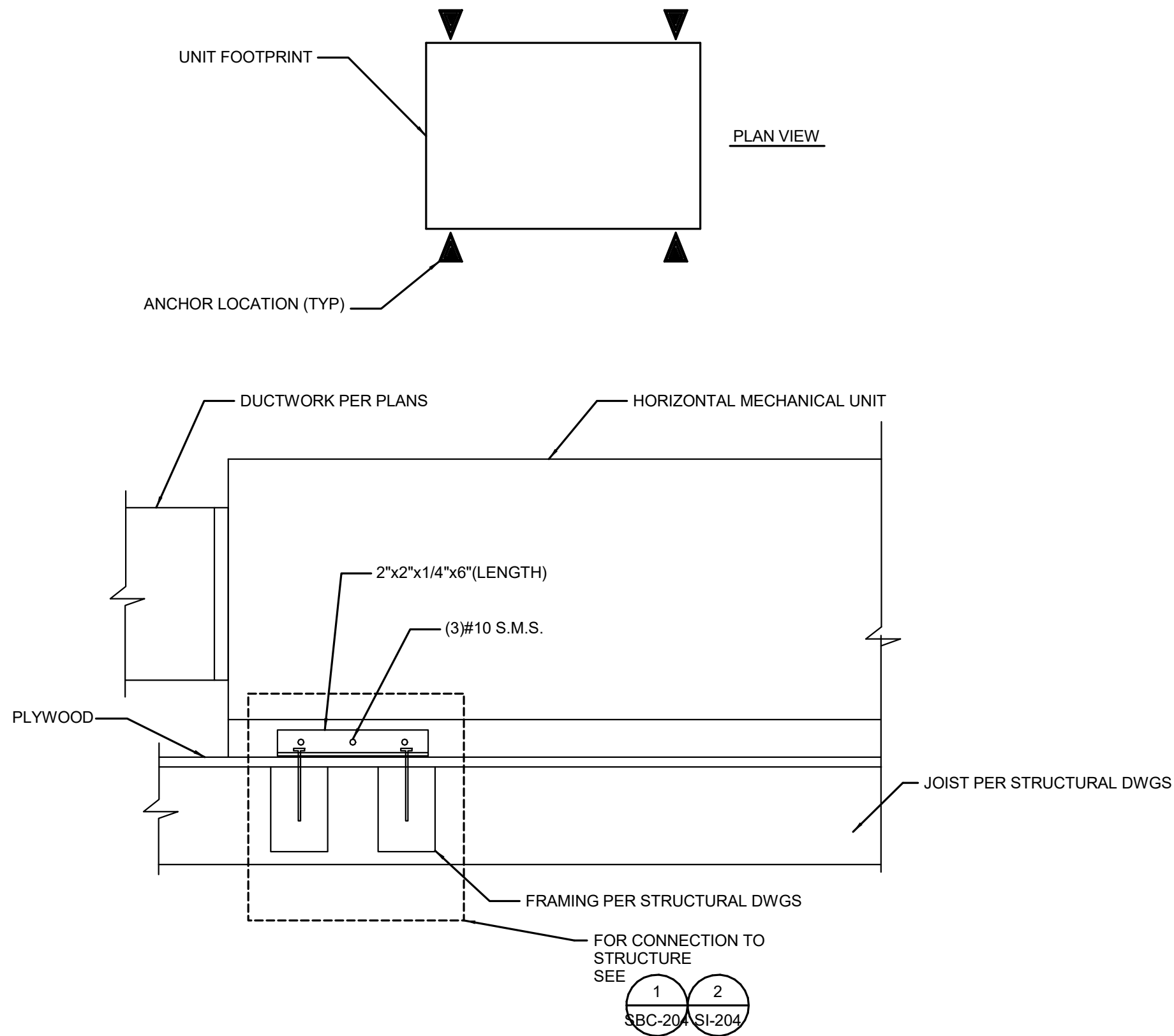
RECTANGULAR DUCT			ROUND DUCT		
MAX. OF DUCT PERIMETER/IN.	STRAP	MAX. LOAD EACH HANGER/LBS.	DIAMETER /INCHES	STRAP	MAX. LOAD EACH HANGER/LBS.
P/2 =72	1"x 20 GA.	20	UP TO 20"	1"x 20 GA.	20
P/2 =96	1"x 18 GA.	30	21" TO 36"	1"x 18 GA.	30

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

AIR HANDLER ON MEZZANINE DECK

NTS

5



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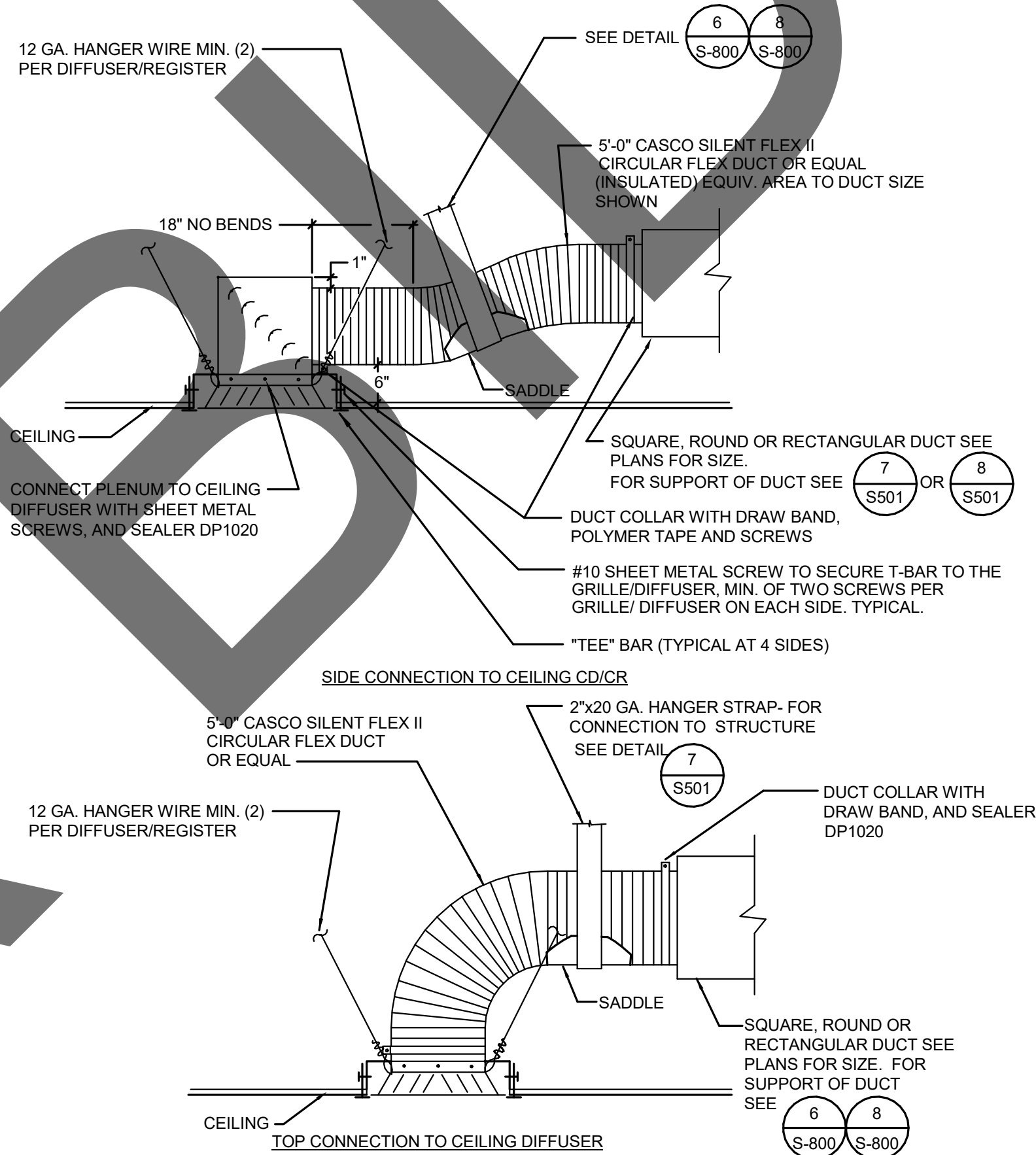
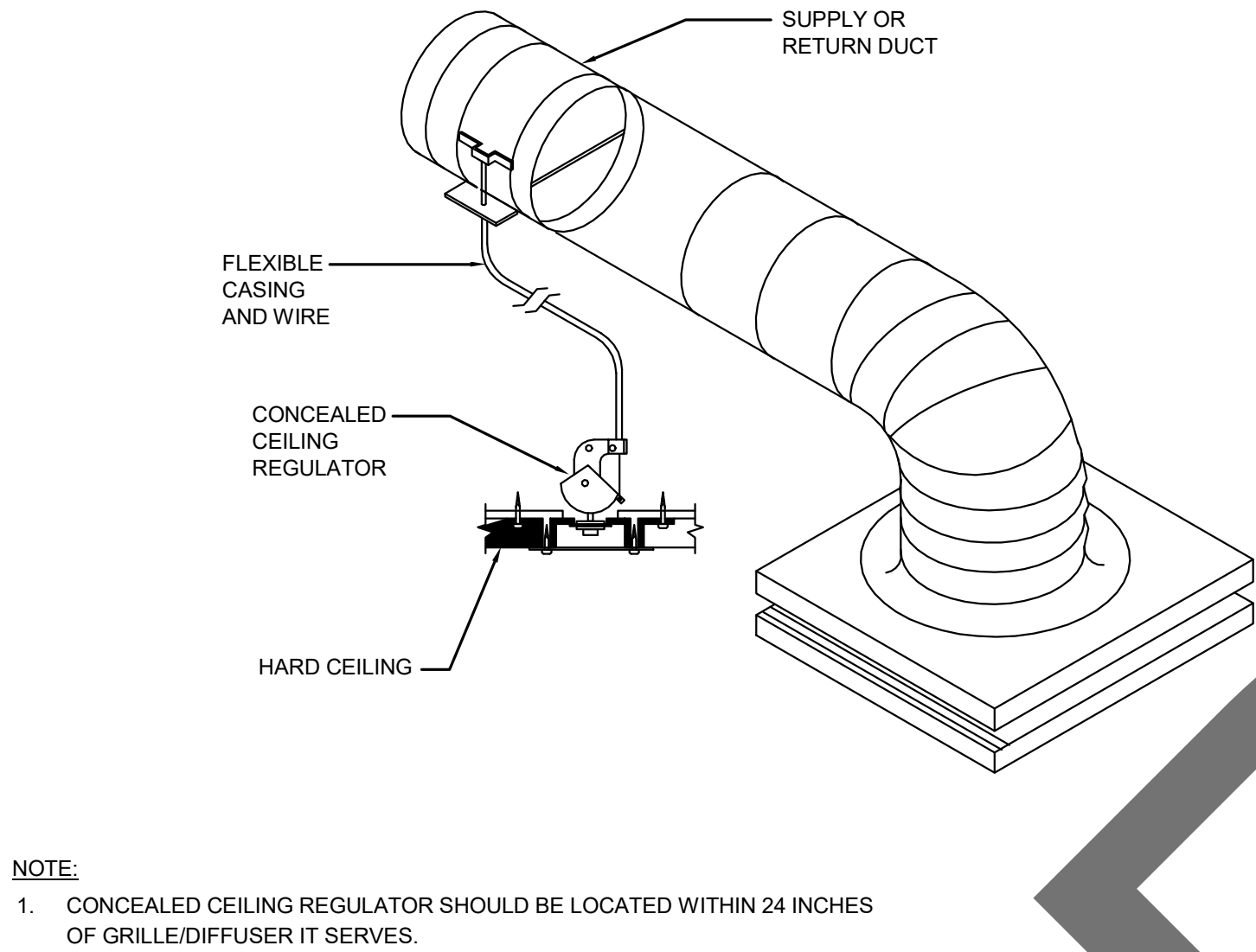
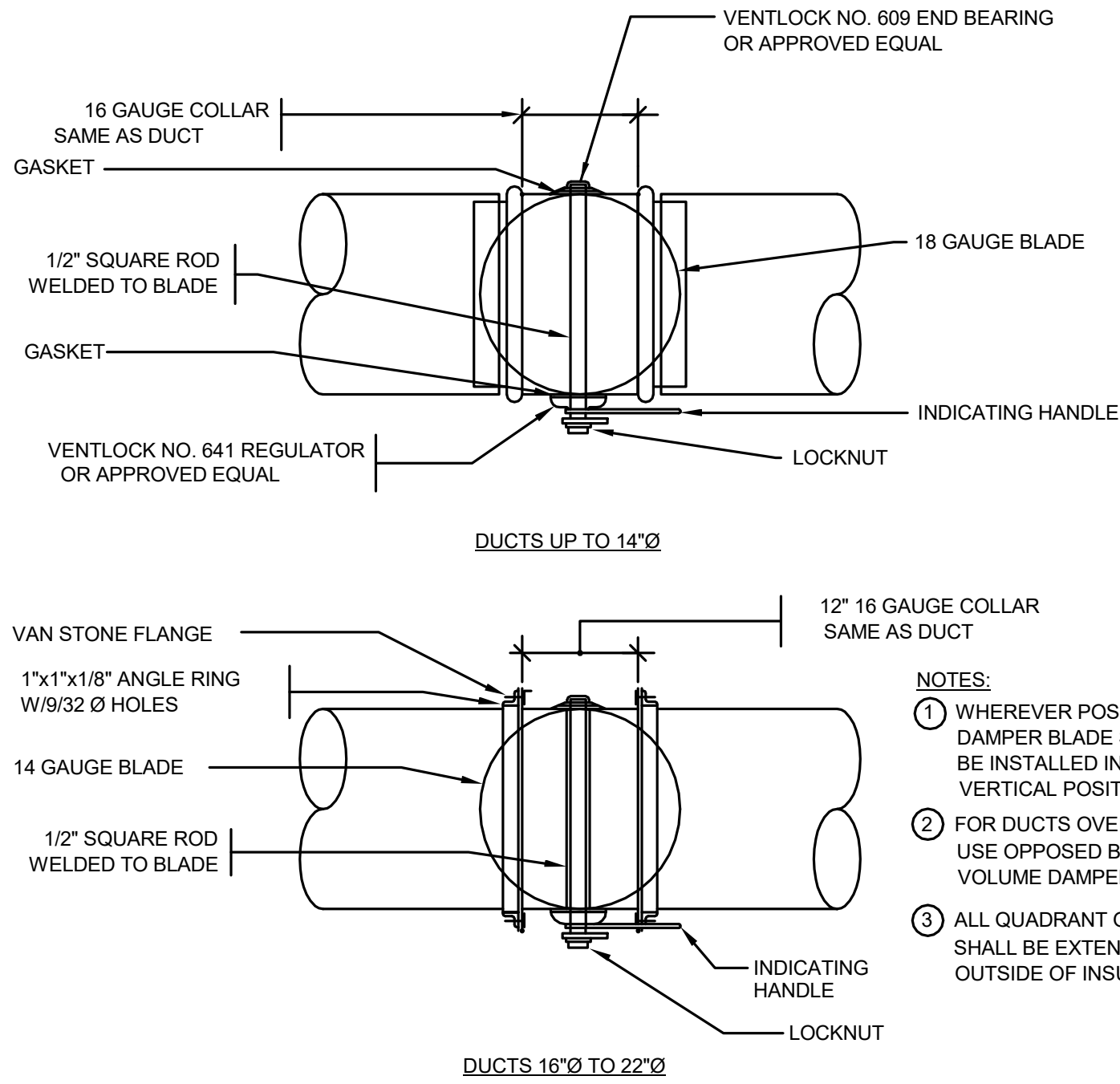
MECHANICAL

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DUCTWORK SUPPORT

NTS

4



VOLUME DAMPER DETAIL

NTS

1

VOLUME DAMPER DETAIL FOR HARD CEILING

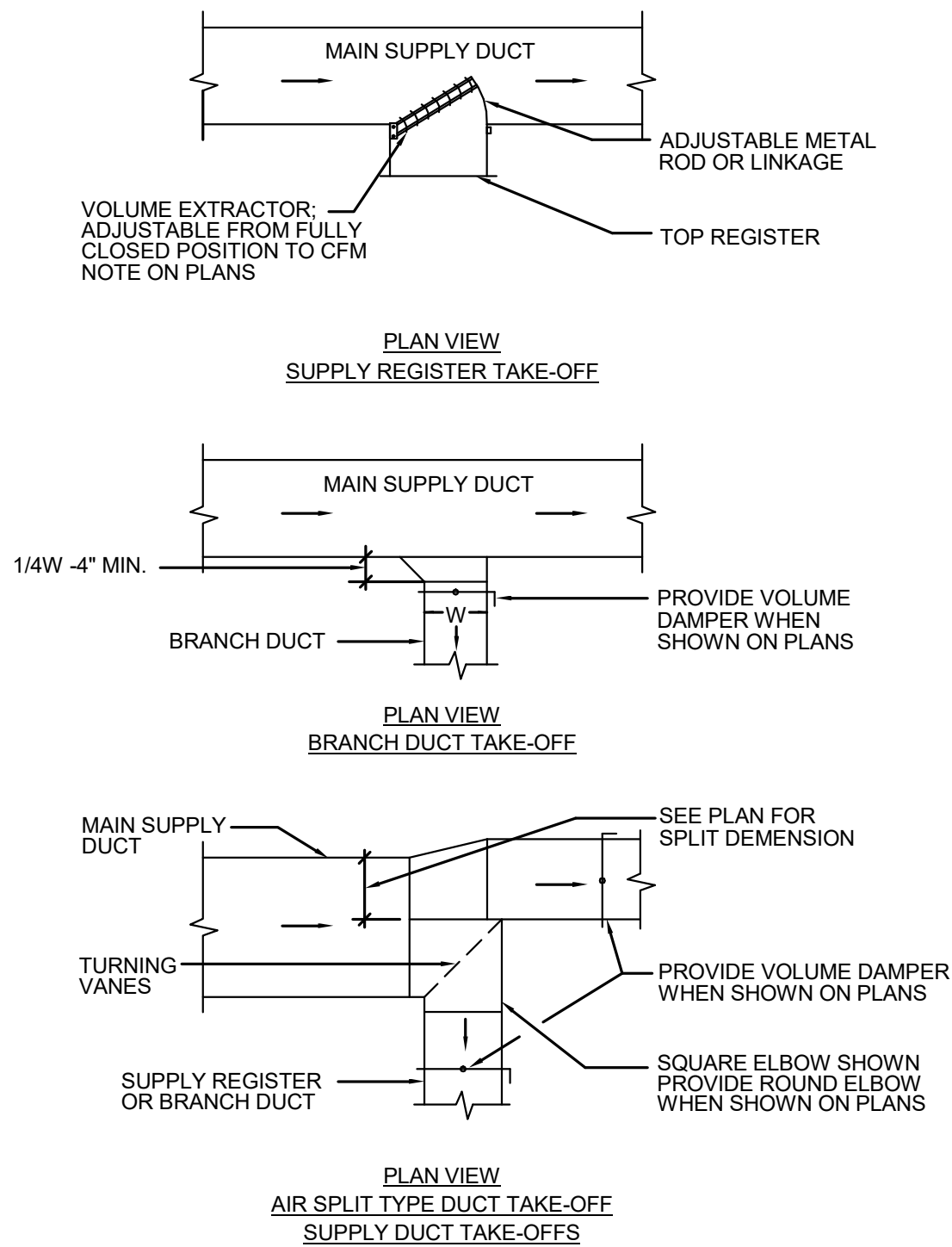
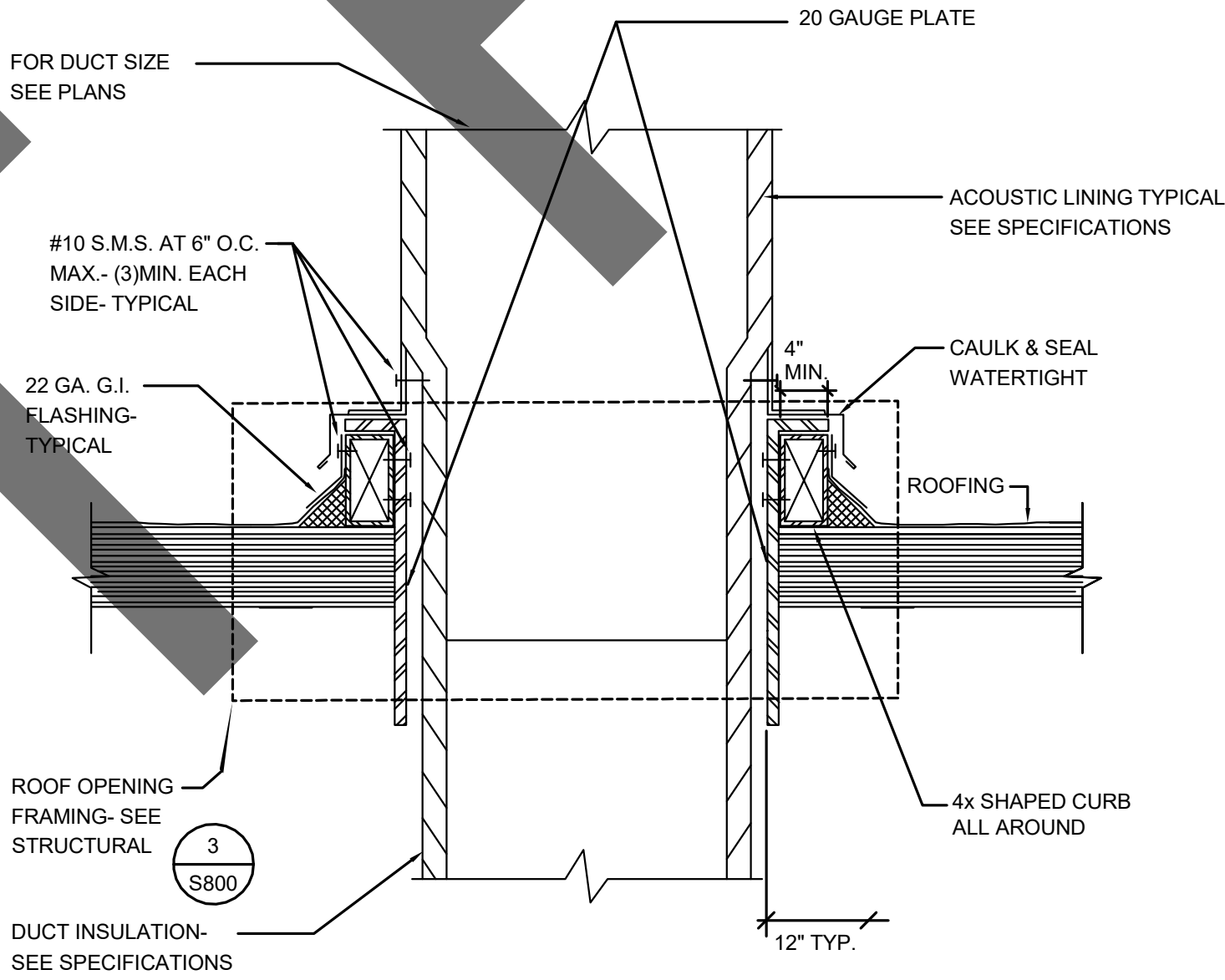
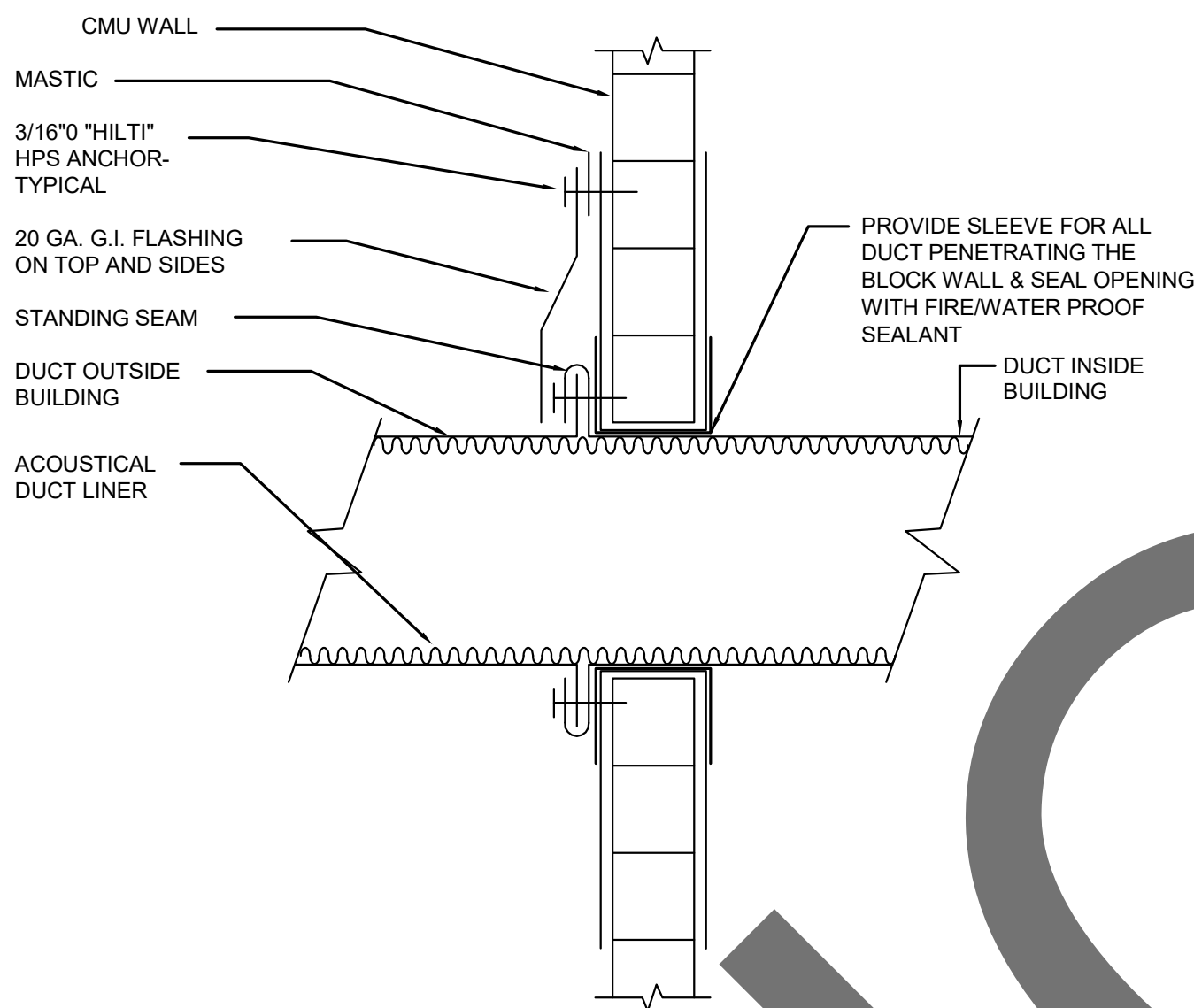
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2

FLEX DUCT CONNECTION TO DIFFUSER

NTS

3



DUCT BRACH CONNECTION

NTS

5

DUCT THROUGH WALL

NTS

4

DUCT THROUGH ROOF

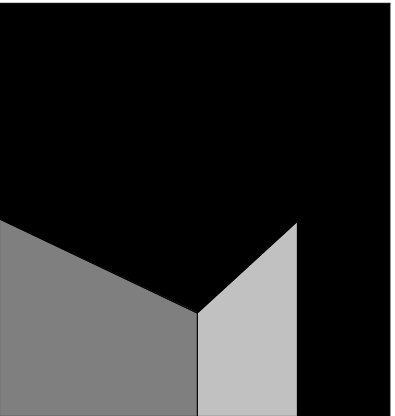
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5

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ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number: 1227
Drawn By: Author
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Issue Date: 05/17/24

sheet name

MECHANICAL
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sheet number

M-203

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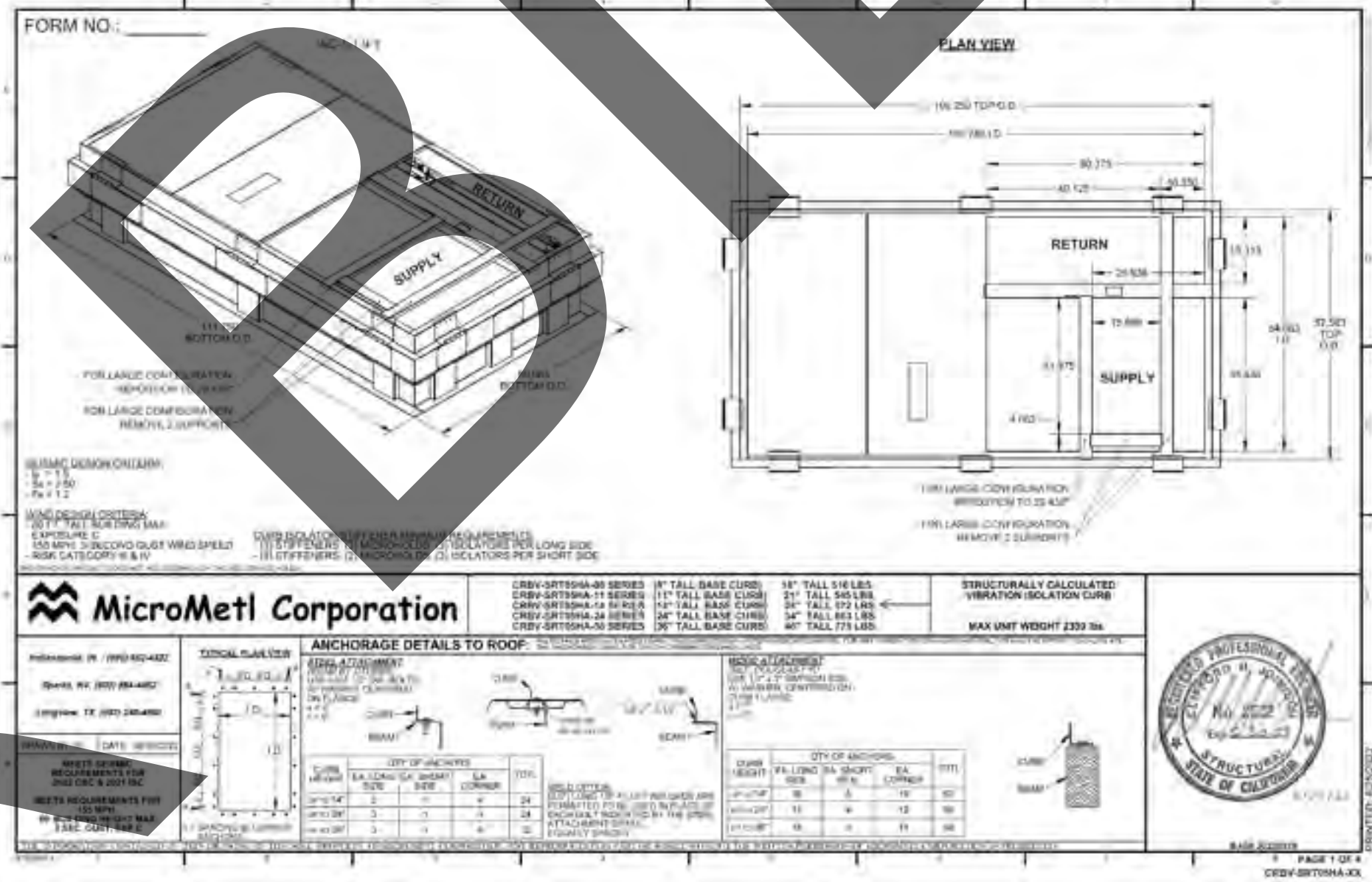
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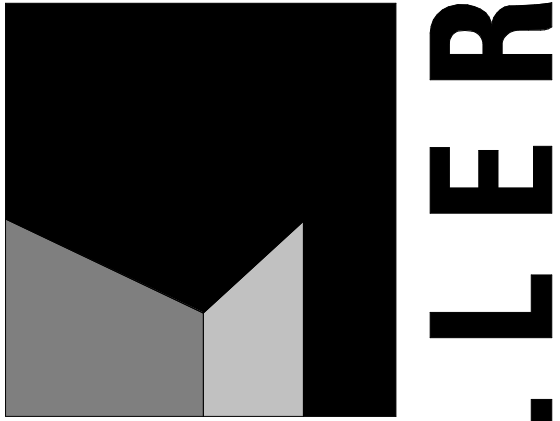
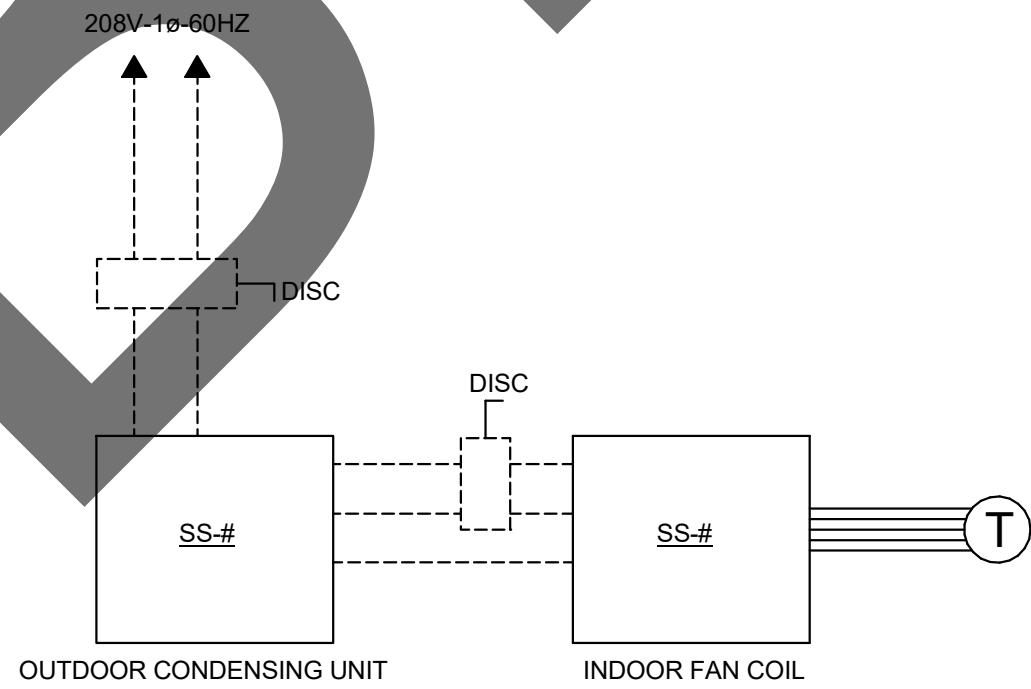
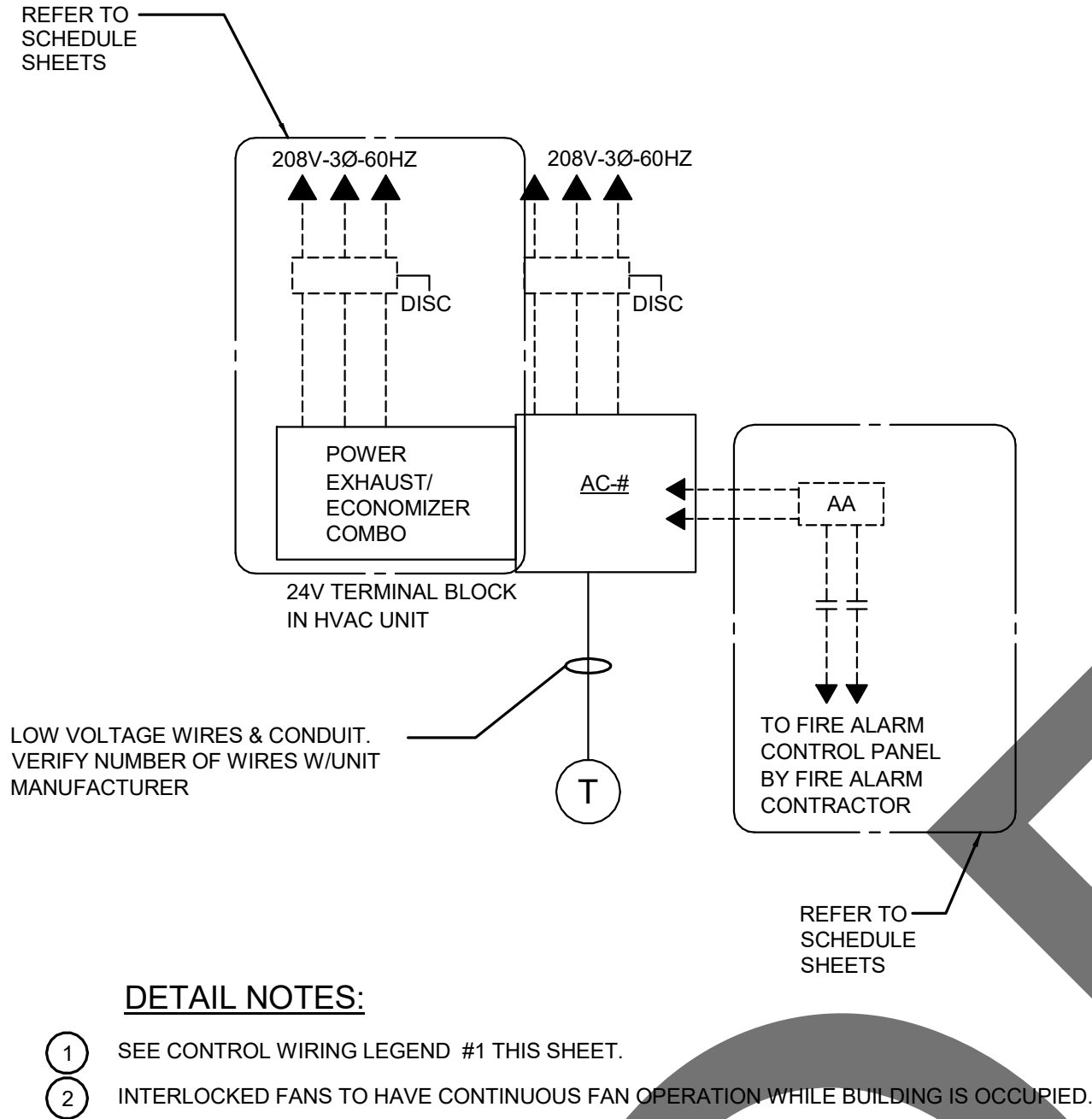
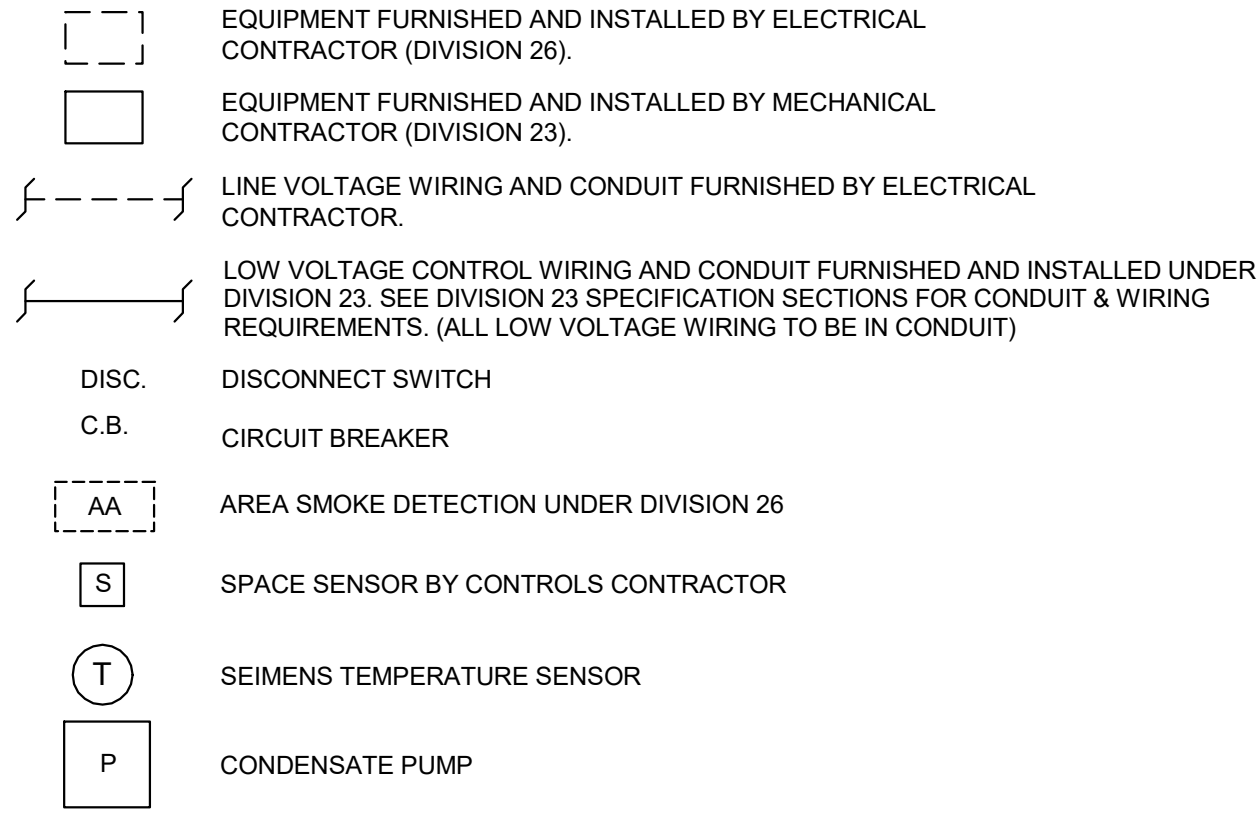
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M-204

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WIRING DIAGRAMS

sheet number

M-205

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CONTROL WIRING LEGEND

NTS

1

AC UNIT CONTROL WIRING DIAGRAM

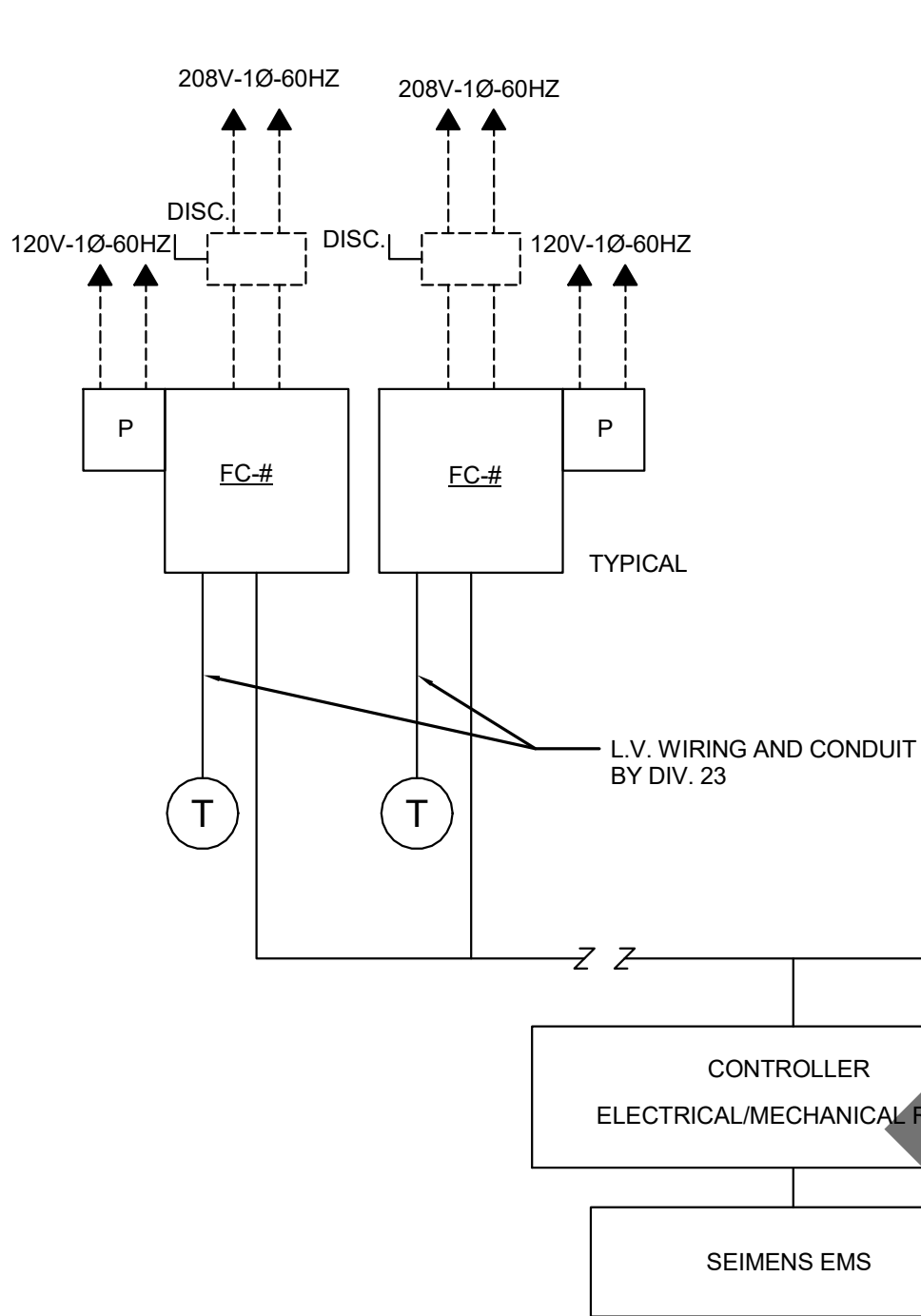
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2

SPLIT SYSTEM CONTROL WIRING DIAGRAM

NTS

3



VRF WIRING DIAGRAM

NTS

4

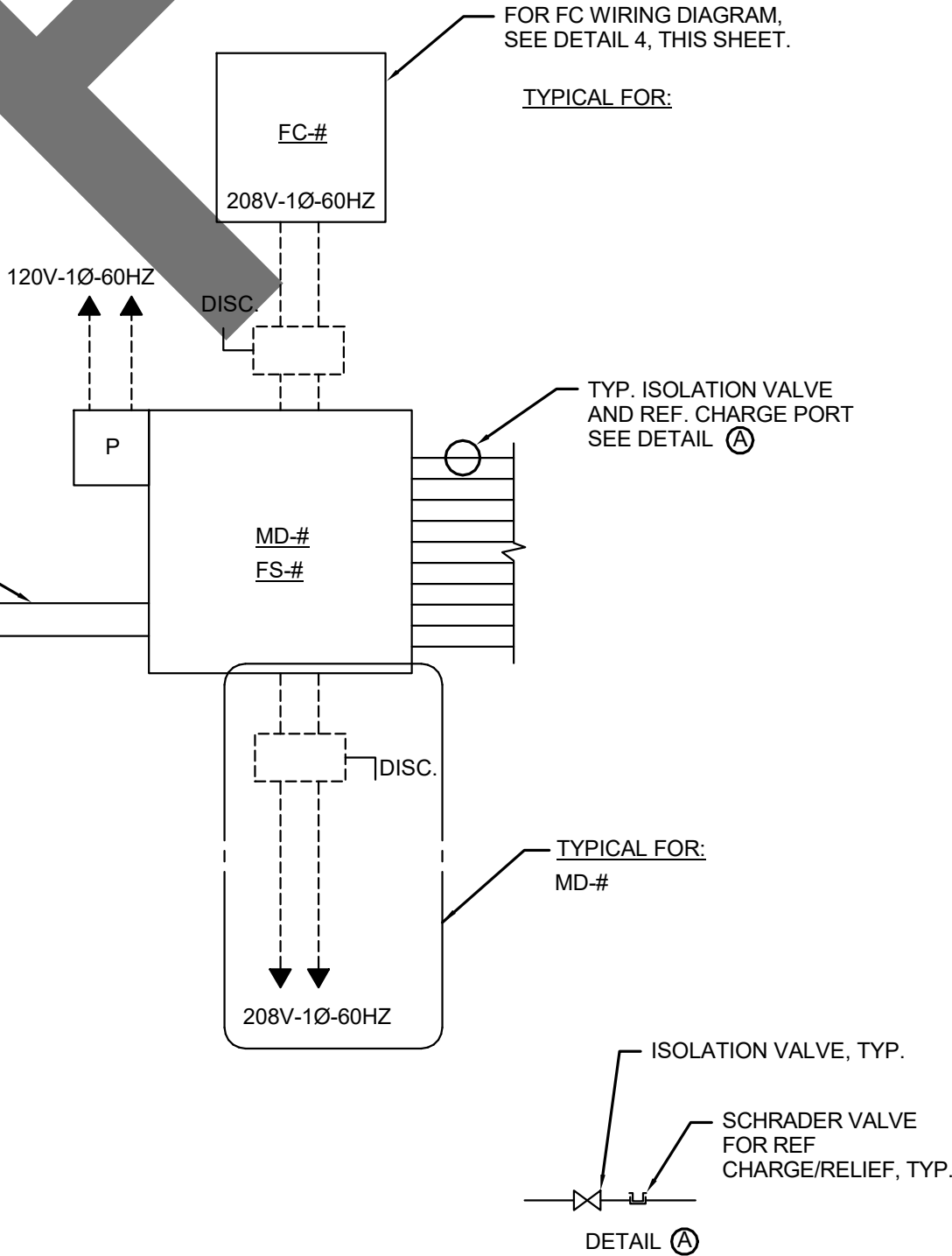
MULTIPOINT CONTROLLER REF. PIPING & WIRING DIAGRAM

NTS

5

NOTES:

1. FOR WIRING NOTES, SEE LEGEND #1 ON THIS SHEET



NOT USED

NTS

5

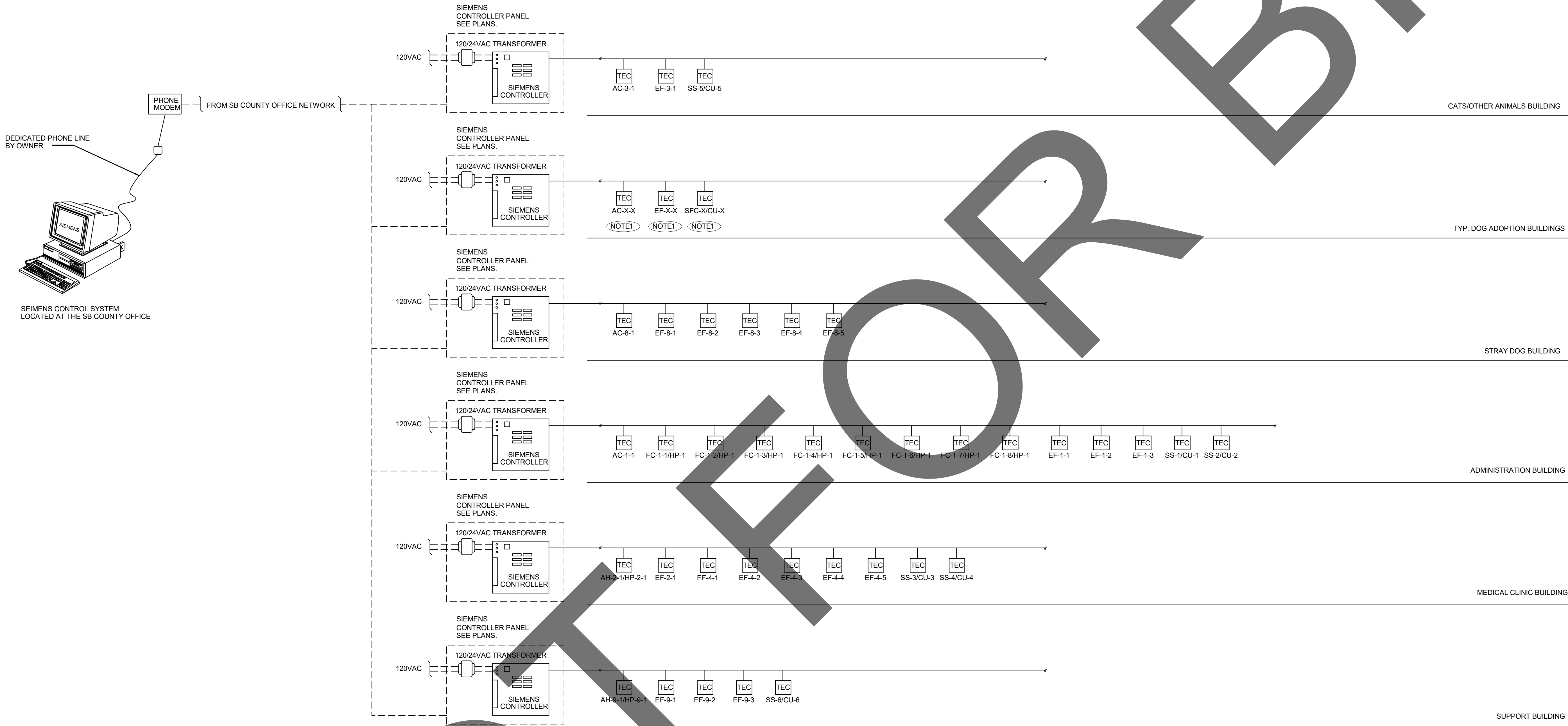


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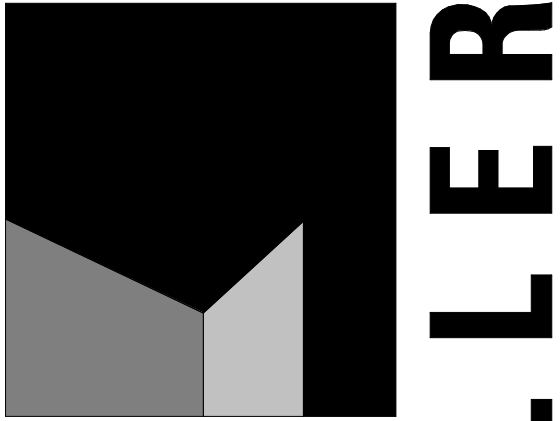
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NOTE:
TYPICAL POINTS TO BE CONTROLLED
AS FOLLOWS:
INDOOR BLOWER
COMPRESSOR
DISCHARGE AIR TEMPERATURE
LOW PRESSURE SWITCH



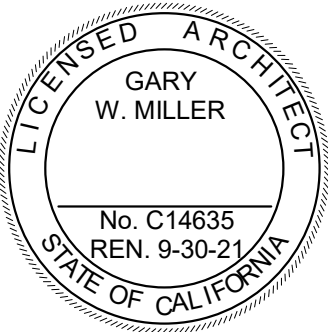
GENERAL NOTES:
• COMM. RISER FOR GENERAL INTENT ONLY- CONTRACTOR TO VERIFY ACTUAL INSTALLATION REQUIREMENTS.
DRAWING NOTES:
1. CONTRACTOR TO COORDINATE WITH EACH DOG ADOPTION BUILDING ON EXACT NUMBER OF UNITS.



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Project Number:	1227
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CONTROLS

sheet number

M-300

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SIEMENS BAS NETWORK COMMUNICATION RISER DIAGRAM

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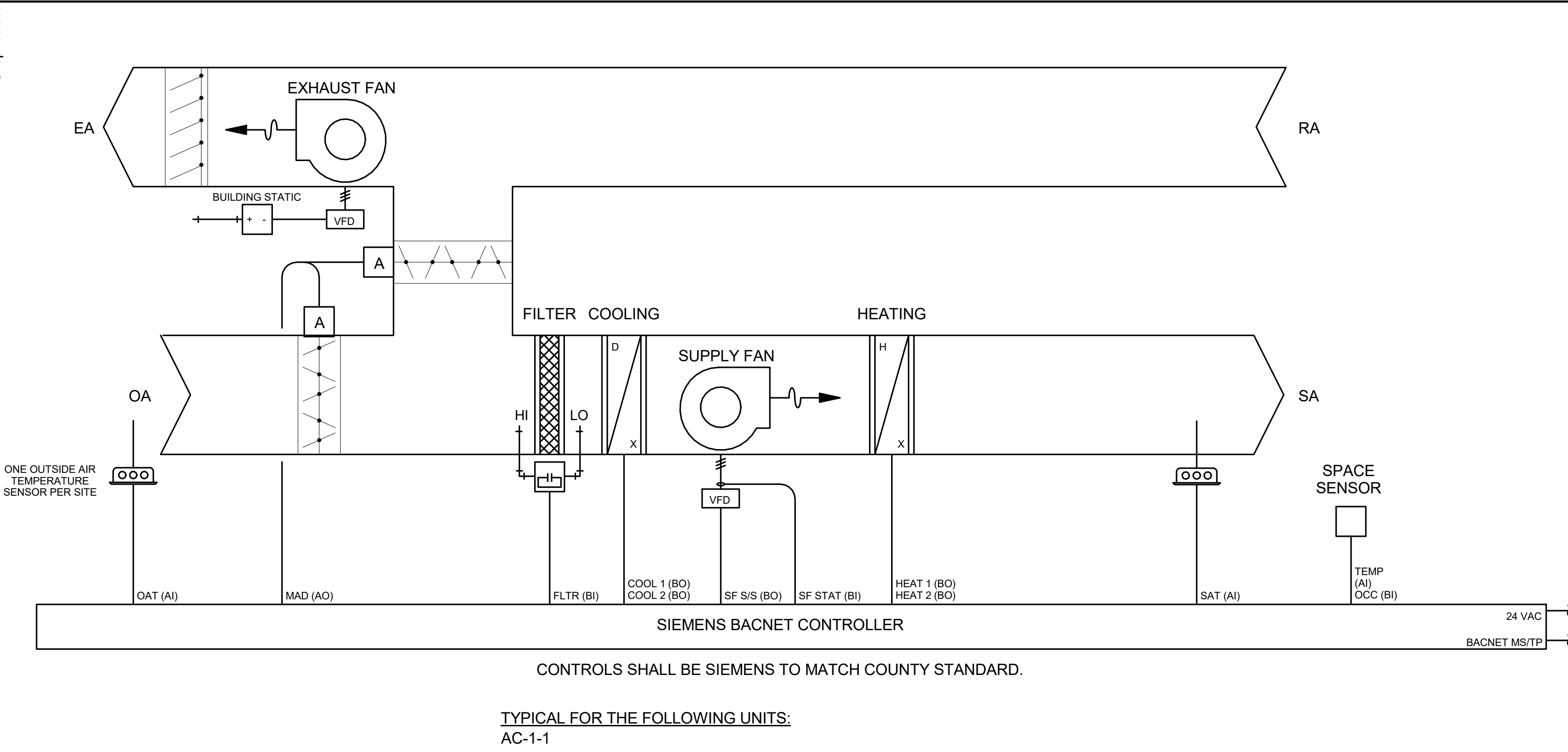
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SEQUENCE OF OPERATION:
THE TCC SHALL EXTEND THE FMCS NETWORK TO THE RTU UNITARY CONTROLLER PER THE PROTOCOL SPECIFIED IN SECTION 23 09 00. THE TCC SHALL PROVIDE ALL ADDITIONAL CONTROL COMPONENTS REQUIRED TO ACCOMPLISH THE SEQUENCE OF OPERATION LISTED BELOW.

WHEN RTU IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR:
SUPPLY FAN SHALL BE ENABLED TO RUN. WHEN THE SUPPLY FAN HAS STARTED THE INTERLOCKED EXHAUST FANS SHALL START AS SHOWN IN THE FAN INTERLOCK SCHEDULE.

BUILDING OCCUPANCY SCHEDULING:
FMCS SHALL BE PROGRAMMED WITH THE FOLLOWING TENTATIVE OCCUPANCY SCHEDULE. COORDINATE SPECIFIC SCHEDULE WITH OWNER.

MORNING START-UP MODE:	MONDAY THROUGH FRIDAY	6:00AM-7:00AM (ADJ)
OCCUPIED MODE:	MONDAY THROUGH FRIDAY	7:00AM-5:00PM (ADJ)
UNOCCUPIED MODE:	MONDAY THROUGH FRIDAY	5:00PM-6:00AM (ADJ)
	SATURDAY THROUGH SUNDAY	ALL DAY

SUPPLY FAN CONTROL:
DURING OCCUPIED MODE THE SUPPLY FAN SHALL MODULATE WITH THE HEATING AND COOLING AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AND ENSURE PROPER AIRFLOW ACROSS COIL. DURING UNOCCUPIED MODE THE SUPPLY FAN SHALL BE OFF.

VENTILATION AIR CONTROL:
DURING OCCUPIED MODE THE OUTSIDE AIR DAMPER SHALL BE OPEN TO MAINTAIN THE MINIMUM SCHEDULED OUTSIDE AIR.

DEMAND CONTROL VENTILATION:
DURING OCCUPIED MODE, THE MINIMUM OA FLOW RATE SHALL NOT FALL BELOW THE SCHEDULED DCV MIN OA RATE.
IF THE SPACE HAS A CO2 CONCENTRATION ABOVE SETPOINT, THE MINIMUM OA SETPOINT SHALL INCREASE UNTIL THE CO2 SETPOINT IS SATISFIED OR UNTIL THE SCHEDULED DESIGN MIN OA IS REACHED.
IF THE CO2 CONCENTRATION DROPS BELOW SETPOINT, THE MINIMUM OA SHALL BE RESET LOWER UNTIL THE CO2 CONCENTRATION REACHES SETPOINT OR UNTIL THE UNIT OA FLOW RATE REACHES THE SCHEDULED DCV OA RATE.
THE CO2 CONCENTRATION SETPOINT SHALL BE 1000 PPM (ADJ).

OCCUPANCY SENSOR:
WHEN THE OCCUPANCY SENSOR DETECTS THE SPACE IS UNOCCUPIED THE FOLLOWING SHALL OCCUR:
SPACE TEMPERATURE SETPOINT SHALL SETBACK BY 2°F.

COOLING MODE:
THE COOLING SETPOINT SHALL BE 74°F (ADJ). IF SPACE TEMPERATURE RISES ABOVE SETPOINT ENABLE STAGES OF COOLING TO SATISFY SETPOINT.

HEATING MODE:
THE HEATING SETPOINT SHALL BE 70°F (ADJ). IF SPACE TEMPERATURE FALLS BELOW SETPOINT ENABLE STAGES OF HEATING TO SATISFY SETPOINT.

ECONOMIZER:
WHEN THE OA DRY BULB TEMPERATURE LESS THAN 74°F (ADJ) THE FMCS SHALL ENABLE ECONOMIZER CONTROLS. WHEN THE OA DRY BULB TEMPERATURE IS ABOVE 74°F (ADJ) FOR 10 MINUTES THE FMCS SHALL DISABLE ECONOMIZER CONTROLS AND SHALL RETURN THE UNIT TO MINIMUM OUTSIDE AIR MODE. ONCE ECONOMIZER CONTROLS HAVE BEEN ENABLED OR DISABLED, THE UNIT SHALL CONTINUE TO OPERATE IN THAT MODE FOR A MINIMUM OF 10 MINUTES (ADJ) BEFORE BEING ALLOWED TO SWITCH BACK (TO PREVENT SHORT CYCLING).

POWER EXHAUST:
WHEN THE RTU IS ENABLED TO RUN THE POWER EXHAUST SHALL MODULATE AS REQUIRED TO MAINTAIN +0.05" (ADJ) W.C. BUILDING PRESSURE.

MORNING START-UP OPERATION:
THE FMCS SHALL MEASURE THE SPACE TEMPERATURE AND OUTSIDE AIR TEMPERATURE TO DETERMINE THE MINIMUM RUNTIME TO WARM/COOL THE SPACES TO THEIR SETPOINT. WHEN THE COMPUTED START TIME IS REACHED THE FMCS SHALL ENABLE THE RTU.

ALARMS, INTERLOCKS, AND SAFETIES:
THE FOLLOWING SAFETIES SHALL BE INSTALLED BY THE TCC IN THE FIELD:
FIRE ALARM RELAY
SUPPLY FAN FAULT
RELIEF FAN FAULT
DIRTY FILTERS (WHEN FILTER PRESSURE DROP EXCEEDS 0.6" W.C. (ADJ)
IF DISCHARGE AIR TEMPERATURE IS MORE THAN 10°F (ADJ) ABOVE OR BELOW SETPOINT
IF THE FIRE ALARM SYSTEM IS ACTIVATED

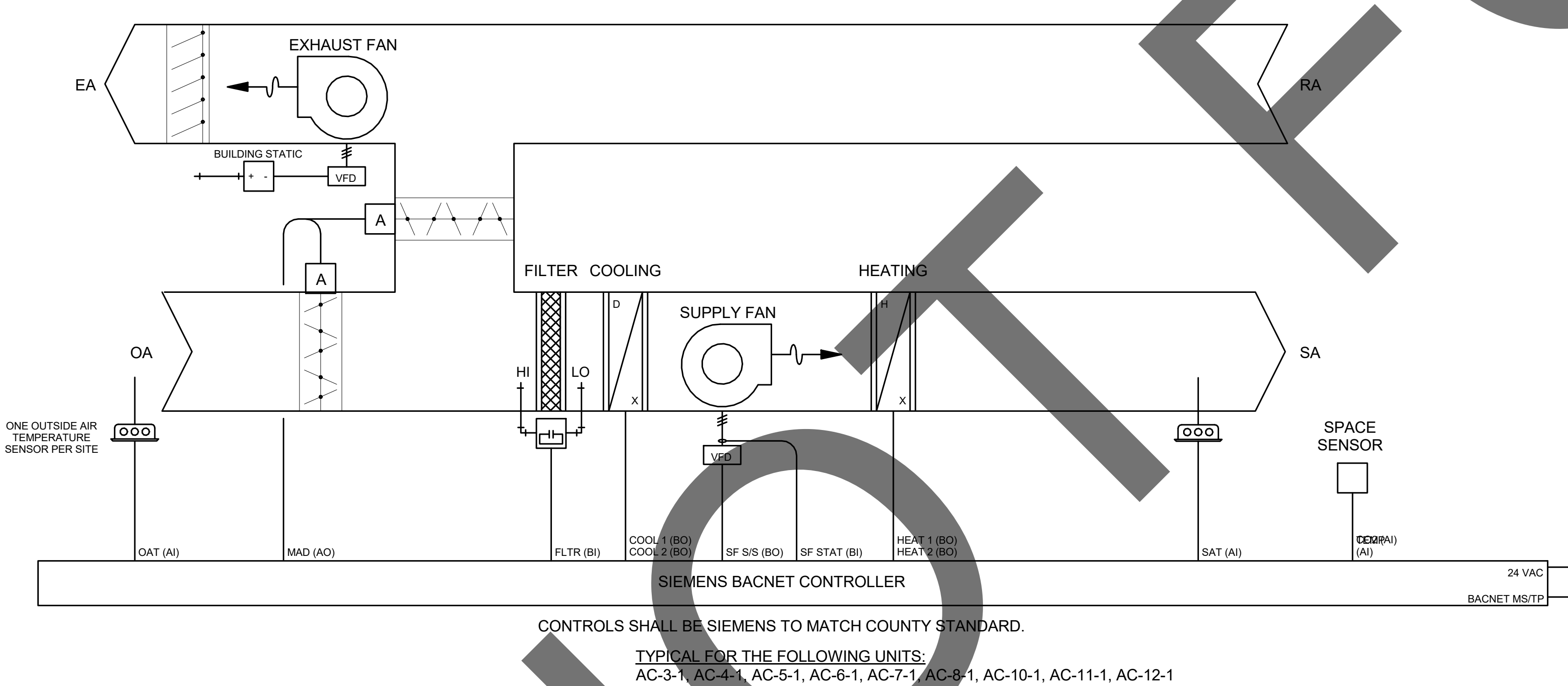
ANY ASSOCIATED INTERLOCKED EXHAUST FANS SHALL OPERATE WHEN THE RTU IS OCCUPIED PER THE ABOVE BUILDING SCHEDULE.

GRAPHICAL DISPLAY:
DISPLAY THE GLOBAL OA TEMPERATURE AND HUMIDITY ON GRAPHIC PAGE. DISPLAY GRAPHICS OF EACH RTU USING INFORMATION RECEIVED FROM BACNET INTERFACE AND PROVIDED SENSORS. INFORMATION SHALL INCLUDE COOLING STATUS, HEATING STATUS, FAN STATUS, UNIT STATUS, SPACE TEMPERATURE, SUPPLY AIR TEMPERATURE, FAULT CODE, FILTER STATUS, OCCUPANCY, SPACE PRESSURE, AND GENERAL ALARM.

STAGED ROOFTOP UNIT DETAIL (W/ POWER EXHAUST, W/ ECONOMIZER, W/OCC SENSOR, W/ DCV)

NTS

1



SEQUENCE OF OPERATION:
THE TCC SHALL EXTEND THE FMCS NETWORK TO THE RTU UNITARY CONTROLLER. THE TCC SHALL PROVIDE ALL ADDITIONAL CONTROL COMPONENTS REQUIRED TO ACCOMPLISH THE SEQUENCE OF OPERATION LISTED BELOW.

WHEN RTU IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR:
SUPPLY FAN SHALL BE ENABLED TO RUN. WHEN THE SUPPLY FAN HAS STARTED THE INTERLOCKED EXHAUST FANS SHALL START AS SHOWN IN THE FAN INTERLOCK SCHEDULE.

BUILDING OCCUPANCY SCHEDULING:
FMCS SHALL BE PROGRAMMED WITH THE FOLLOWING TENTATIVE OCCUPANCY SCHEDULE. COORDINATE SPECIFIC SCHEDULE WITH OWNER.

MORNING START-UP MODE:	MONDAY THROUGH FRIDAY	6:00AM-7:00AM (ADJ)
OCCUPIED MODE:	MONDAY THROUGH FRIDAY	7:00AM-5:00PM (ADJ)
UNOCCUPIED MODE:	MONDAY THROUGH FRIDAY	5:00PM-6:00AM (ADJ)
	SATURDAY THROUGH SUNDAY	ALL DAY

SUPPLY FAN CONTROL:
DURING OCCUPIED MODE THE SUPPLY FAN SHALL MODULATE WITH THE HEATING AND COOLING AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AND ENSURE PROPER AIRFLOW ACROSS COIL. DURING UNOCCUPIED MODE THE SUPPLY FAN SHALL BE OFF.

VENTILATION AIR CONTROL:
DURING OCCUPIED MODE THE OUTSIDE AIR DAMPER SHALL BE OPEN TO MAINTAIN THE MINIMUM SCHEDULED OUTSIDE AIR.

COOLING MODE:
THE COOLING SETPOINT SHALL BE 74°F (ADJ). IF SPACE TEMPERATURE RISES ABOVE SETPOINT ENABLE STAGES OF COOLING TO SATISFY SETPOINT.

HEATING MODE:
THE HEATING SETPOINT SHALL BE 70°F (ADJ). IF SPACE TEMPERATURE FALLS BELOW SETPOINT ENABLE STAGES OF HEATING TO SATISFY SETPOINT.

ECONOMIZER:
WHEN THE OA DRY BULB TEMPERATURE LESS THAN 74°F (ADJ) THE FMCS SHALL ENABLE ECONOMIZER CONTROLS. WHEN THE OA DRY BULB TEMPERATURE IS ABOVE 74°F (ADJ) FOR 10 MINUTES THE FMCS SHALL DISABLE ECONOMIZER CONTROLS AND SHALL RETURN THE UNIT TO MINIMUM OUTSIDE AIR MODE. ONCE ECONOMIZER CONTROLS HAVE BEEN ENABLED OR DISABLED, THE UNIT SHALL CONTINUE TO OPERATE IN THAT MODE FOR A MINIMUM OF 10 MINUTES (ADJ) BEFORE BEING ALLOWED TO SWITCH BACK (TO PREVENT SHORT CYCLING).

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ALARMS, INTERLOCKS, AND SAFETIES:
THE FOLLOWING SAFETIES SHALL BE INSTALLED BY THE TCC IN THE FIELD:
FIRE ALARM RELAY
SUPPLY FAN FAULT
RELIEF FAN FAULT
DIRTY FILTERS (WHEN FILTER PRESSURE DROP EXCEEDS 0.6" W.C. (ADJ)
IF DISCHARGE AIR TEMPERATURE IS MORE THAN 10°F (ADJ) ABOVE OR BELOW SETPOINT
IF THE FIRE ALARM SYSTEM IS ACTIVATED

ANY ASSOCIATED INTERLOCKED EXHAUST FANS SHALL OPERATE WHEN THE RTU IS OCCUPIED PER THE ABOVE BUILDING SCHEDULE.

GRAPHICAL DISPLAY:
DISPLAY THE GLOBAL OA TEMPERATURE AND HUMIDITY ON GRAPHIC PAGE. DISPLAY GRAPHICS OF EACH RTU USING INFORMATION RECEIVED FROM BACNET INTERFACE AND PROVIDED SENSORS. INFORMATION SHALL INCLUDE COOLING STATUS, HEATING STATUS, FAN STATUS, UNIT STATUS, SPACE TEMPERATURE, SUPPLY AIR TEMPERATURE, FAULT CODE, FILTER STATUS, OCCUPANCY, SPACE PRESSURE, AND GENERAL ALARM.

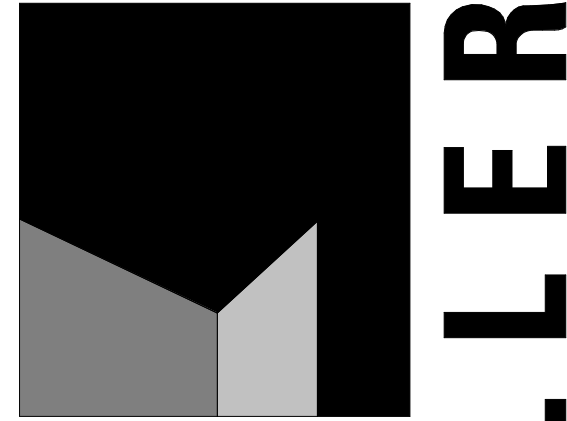
STAGED ROOFTOP UNIT DETAIL (W/ POWER EXHAUST, W/ ECONOMIZER, W/O DCV)

NTS

2

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architecture
interiors
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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment
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ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number: 1227
Drawn By: Author
Checked By: PS
Issue Date: 05/17/24

sheet name

CONTROLS

sheet number

M-301

Sheet Of Sheets

VIEW KEY

NAME

LEVEL NAME

10'-0"

HEIGHT ABOVE PROJECT 0'-0"

1

INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

1/8" = 1'-0"

PLAN OR DETAIL SCALE

VIEW NAME

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

SHEET DETAIL IS LOCATED ON

T101

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

NEW

NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

TAG

UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

SYMBOL:	DESCRIPTION:
	GROUND BUS
	INTERSYSTEM BONDING TERMINATION
	ELECTRICAL CONNECTION
	JUNCTION BOX
	FLOOR BOX OR POKE THROUGH
	PANELBOARD - RECESS MOUNT
	PANELBOARD - SURFACE MOUNT
	TRANSFORMER. REFER TO TRANSFORMER SCHEDULE
	BUSS PLUG - COMBINATION STARTER. REFER TO DISC/STA SCHEDULE
	BUSS PLUG - FUSIBLE DISCONNECT. REFER TO DISC/STA SCHEDULE
	DUPLEX RECEPTACLE CONTROLLED BY OCCUPANCY SENSORE.
	DUPLEX RECEPTACLE, 125V
	DUPLEX GFI WEATHERPROOF RECEPTACLE 125V REC AFCI, GFCI, TAMPER RESISTANT
	TIME SWITCH
	LIGHTING CONTROL LCD STATION
	SWITCH - SINGLE POLE
	SWITCH - WEATHERPROOF
	DIMMER - LED
	DIMMER - WALL DIMMER
	OCCUPANCY SENSOR
	DAYLIGHT LEVEL SENSOR
	OCCUPANCY SENSOR - DUAL TECHNOLOGY
	OCCUPANCY SENSOR - DUAL TECHNOLOGY - WALL MOUNTED
	OCCUPANCY SENSOR - HIGH BAY AISLE COVERAGE
	OCCUPANCY SENSOR - HIGH BAY
	SWITCH - OCCUPANCY SENSOR
	WALL SWITCH
	3 WAY SWITCH - SINGLE POLE
	TIME SWITCH
	LINEAR LUMINAIRES
	TROFFER
	WALL SCONCE LUMINAIRE
	DOWNLIGHT LUMINAIRE
	WALL WASH DOWN LIGHT LUMINAIRE
	INDUSTRIAL LUMINAIRE
	WALL BRACKET LUMINAIRE
	POLE MOUNTED LUMINAIRE
	SINGLE AND DOUBLE FACE EXIT SIGN
	WALL/CEILING EMERGENCY EXIT SIGN

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SV	SOLENOID VALVE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

SYMBOL:	DESCRIPTION:
	NORMAL BRANCH LUMINAIRE
	EMERGENCY FIXTURE WITH INTERIAL EMERGENCY BATTERY BACK

TYPICAL NEW CONSTRUCTION:

- REFER TO [3/E502] FOR EXTERIOR LIGHTING CONTROL DETAIL.
- COORDINATE LUMINAIRE IN MECHANICAL ROOMS WITH DUCTWORK, PIPING AND ANY MECHANICAL EQUIPMENT. PROVIDE LUMINAIRE WITH CHAINS OR HANGER KIT WHERE REQUIRED. COORDINATE MOUNTING PRIOR TO ORDERING LUMINAIRES.
- THREE-WAY SWITCH CONTROLS LUMINAIRE LOCATED IN THE ELEVATOR SHAFT. REFER TO SHEET EA-101 FOR CORRESPONDING SWITCH.
- COORDINATE ALL LUMINAIRE LOCATIONS WITH STRUCTURAL TRUSS AND BEAMS PRIOR TO ROUGH-IN.
- PROVIDE SEPARATE BRANCH CIRCUIT TO SUPPLY POWER TO THE HOIST WAY PIT LIGHTING. LIGHTING SHALL NOT BE CONNECTED TO THE LOAD SIDE OF ANY GFCI DEVICE. MOUNT PIT LUMINAIRES VERTICALLY 48" FROM TOP OF PIT OR BELOW PIT CEILING. REFER TO ELEVATOR MANUFACTURER FOR EXACT LOCATION. **REFER TO ELEVATOR DESIGN GUIDE AND LOCAL ADOPTED CODES FOR LIGHTING REQUIREMENTS**
- EXTERIOR/INTERIOR** LUMINAIRES SHALL BE TARGETED AND ADJUSTED BY THE CONTRACTOR UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS OF THE ENGINEER. ALL LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT SHALL BE INCLUDED.

TYPICAL NEW CONSTRUCTION:

- HALF SHADED FIXTURE INDICATE UNSWITCHED LUMINAIRES FOR NIGHT LIGHTING CONNECTED TO PANEL. AS NOTED.
- FULLY SHADED FIXTURES INDICATE EMERGENCY LUMINAIRES THAT ARE TO BE CONNECTED VIA AN EMERGENCY TRANSFER DEVICE (ETD) TO TURN LIGHTS ON UPON LOSS OF POWER. THE THIRD LEG OF THE ETD IS CONNECTED TO THE EMERGENCY LIGHTING PANEL.
- SITE HAS UNDERGROUND UTILITIES, STEAM, WATER, ELECTRIC AND VAULTS. POLE LOCATIONS HAVE BEEN COORDINATED WITH CIVIL PLANS. CONTRACTOR SHALL FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING ALL LIGHT POLES. HAND EXCAVATE IF NECESSARY, TO ASCERTAIN EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO INSTALLING ANY POLE.
- WHERE LUMINAIRE QUANTITIES OR LAYOUT DIFFER BETWEEN ELECTRICAL LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS, HIGHER QUANTITY SHALL TAKE PRECEDENCE. CONTRACTOR SHALL CONFIRM QUANTITY AND LAYOUT WITH DESIGN TEAM.
- #B PUSH BUTTON REFERS TO SCENE QUANTITY. COORDINATE NUMBER OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER. CONTROL SHALL BE CAPABLE OF DIMMING UP/DOWN AND SWITCHING ON/OFF FOR MULTIPLE ZONES AS INDICATED AND PER LIGHTING SEQUENCE OF OPERATIONS.
- Z## INDICATES ZONING AND REFLECTS A LIGHTING CONTROL GROUP. PROVIDE RELAYS AS REQUIRED TO ALLOW LUMINAIRES WITHIN THE DEFINED ZONE TO FUNCTION TOGETHER DURING NORMAL POWER.
- ALL ADJUSTABLE LUMINAIRES SHALL BE AIMED BY THE CONTRACTOR UNDER THE OBSERVATION AND DIRECTION OF THE ENGINEER, LIGHTING DESIGNER, AND ARCHITECT. ALL DIMMING LUMINAIRES OR COLOR CHANGING LUMINAIRES CONTROLLED BY A NETWORK SYSTEM FOR SCENE SELECTION SHALL BE OPTIMIZED BY THE CONTRACTOR MANUFACTURER'S TECHNICIAN UNDER THE OBSERVATION AND DIRECTION OF THE ENGINEER, LIGHTING DESIGNER, AND ARCHITECT. OPTIMIZATION SETTINGS AND SECTIONS SHALL BE COMPLETED BOTH DURING THE DAY AND AFTER SUNSET. ALL AIMING AND OPTIMIZATION SHALL BE APPROVED BY OWNERSHIP. ALLOW FOR ONE ADDITIONAL AIMING AND OPTIMIZATION SECESSION TO RECTIFY ANY CONCERNS BY OWNERSHIP FOR THEIR FINAL APPROVAL. ALL LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT SHALL BE INCLUDED. COORDINATE AIMING AND TUNING SECESSIONS WITH THE DESIGN TEAM AND OWNERSHIP AT LEAST 10 DAYS PRIOR TO THE PROPOSED DATE.

ADA GUIDELINES - FRONT ACCESS

ADA GUIDELINES - SIDE ACCESS

ADA STANDARDS FOR ACCESSIBLE DESIGN

ELECTRICAL INSTALLATION NOTES:

- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
- CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- EMERGENCY, LEGALLY REQUIRED, OPTIONAL STANDBY** BRANCH WIRING FOR FEEDERS AND BRANCH CIRCUITS SHALL BE ROUTED IN SEPARATE RACEWAY, JUNCTION BOXES, PULL BOXES, AND CABINETS. WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER BRANCHES, INCLUDING THE NORMAL BRANCH.
- FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. DEVICES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
- FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE.
- ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRETOPS. REFER TO **26 05 03** FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
- CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.
- MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.
- INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
- ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

APPLICABLE CODES AND STANDARDS:

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1

2022 CALIFORNIA BUILDING CODE (CBC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2
(2021 INTERNATIONAL BUILDING CODE (IBC) W/ 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ELECTRICAL CODE (CEC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3
(2020 NATIONAL ELECTRICAL CODE (NEC) W/ 2022 CALIFORNIA AMENDMENTS)

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

2022 CALIFORNIA FIRE CODE (CFC)
CALIFORNIA CODES OF REGULATIONS (CRR) TITLE 24, PART 9
(2021 INTERNATIONAL FIRE CODE (IFC) W/ 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA EXISTING BUILDING CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 10
(2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC))

2022 CALIFORNIA REFERENCES STANDARDS CODE
CALIFORNIA DOE OF REGULATIONS (CCR) TITLE 24, PART 12

AMERICANS WITH DISABILITIES ACT (ADA)
TITLE II - ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAG)
1990 STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO DATE

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE
ACCESSIBILITY STANDARDS CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24 PART 11

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EA-203	ADMINISTRATION BUILDING POWER ROOF PLAN
EA-211	ADMINISTRATION BUILDING MECHANICAL EQUIPMENT POWER FIRST FLOOR PLAN
EA-212	ADMINISTRATION BUILDING MECHANICAL EQUIPMENT POWER SECOND FLOOR PLAN
EBC-101	MEDICAL CLINIC LIGHTING FLOOR PLAN
EBC-201	MEDICAL CLINIC POWER FLOOR PLAN
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ED-101	CAT & OTHER ANIMALS BUILDING LIGHTING FLOOR PLAN
ED-201	CAT & OTHER ANIMALS BUILDING POWER FLOOR PLAN
ED-202	CAT & OTHER ANIMALS BUILDING POWER ROOF PLAN
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EE-201	ADOPTION DOG BUILDING 1 POWER FLOOR PLAN
EE-202	ADOPTION DOG BUILDING 1 POWER ROOF PLAN
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EF-201	ADOPTION DOG BUILDING 2 POWER FLOOR PLAN
EF-202	ADOPTION DOG BUILDING 2 POWER ROOF PLAN
EG-101	ADOPTION DOG BUILDING 3 LIGHTING FLOOR PLAN
EG-201	ADOPTION DOG BUILDING 3 POWER FLOOR PLAN
EG-202	ADOPTION DOG BUILDING 3 POWER ROOF PLAN
EH-101	STRAY DOG BUILDING LIGHTING FLOOR PLAN
EH-201	STRAY DOG BUILDING POWER FLOOR PLAN
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EJ-201	SUPPORT BUILDING POWER FLOOR PLAN
EJ-101	ADOPTION DOG BUILDING 5 LIGHTING FLOOR PLAN
EJ-201	ADOPTION DOG BUILDING 5 POWER FLOOR PLAN
EJ-202	ADOPTION DOG BUILDING 5 POWER ROOF PLAN
EK-101	ADOPTION DOG BUILDING 6 LIGHTING FLOOR PLAN
EK-201	ADOPTION DOG BUILDING 6 POWER FLOOR PLAN
EK-202	ADOPTION DOG BUILDING 6 POWER ROOF PLAN
E-300	DETAILS
E-301	DETAILS
E-302	DETAILS
E-400	ELECTRICAL ENLARGED PLANS
GRAND TOTAL: 56	

ELECTRICAL GENERAL NOTES:

- {L##} INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET **E-102**.
- "SE" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM **EMERGENCY CIRCUIT** UPON LOSS OF POWER.
- SHADED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN EMERGENCY CIRCUIT.
- REFER TO SHEET **E-102** FOR LUMINAIRE SCHEDULE.
- {L##} DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE. REFER TO SHEET **E-102**.
- OCCUPANCY SENSOR LAYOUT: SENSORS ARE SHOWN ON THE PLANS FOR DESIGN INTENT AND MAY NOT REPRESENT EVERY DEVICE. PROVIDE MANUFACTURER SPECIFIC FLOOR PLAN LAYOUTS SHOWING LOCATION, ORIENTATION, AND COVERAGE AREA OF EACH CONTROL DEVICE, SENSOR, AND CONTROLLER/INTERFACE. AREAS REQUIRING MULTIPLE SENSOR DEVICES FOR APPROPRIATE COVERAGE, SUBMIT SPECIFIC MANUFACTURER-APPROVED SENSOR LAYOUT AS AN OVERLAY DIRECTLY ON THE PROJECT DRAWINGS, EITHER IN PRINT OR APPROVED ELECTRONIC FORM.

LUMINAIRE KEY:

F1 = FIXTURE TAG
 T = CIRCUIT NUMBER
 a = SWITCH DESIGNATION
 NL = SUBSCRIPT (IF APPLICABLE)
 Z = ZONE DESIGNATION

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / T / a / NL

DEVICE KEY:

A = MOUNTING (IF APPLICABLE)
 1 = CIRCUIT NUMBER

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:

MOUNT AT +42" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
 C MOUNT AT CEILING
 H MOUNT ORIENTED HORIZONTALLY
 L MOUNT IN CASEWORK
 M MOUNT IN MODULAR FURNITURE
 R MOUNT IN SURFACE RACEWAY
 EWC ELECTRIC WATER COOLER

901 VIA PIEMONTE
SUITE 400
ONTARIO, CA 91764
P: 909-477-8915 F: 909-477-6916

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REF. SCALE IN INCHES PROJECT #22007569.00

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architecture
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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment
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ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number: 1227
Drawn By: TIEN NG
Checked By: PS
Issue Date: 05/17/24

sheet name

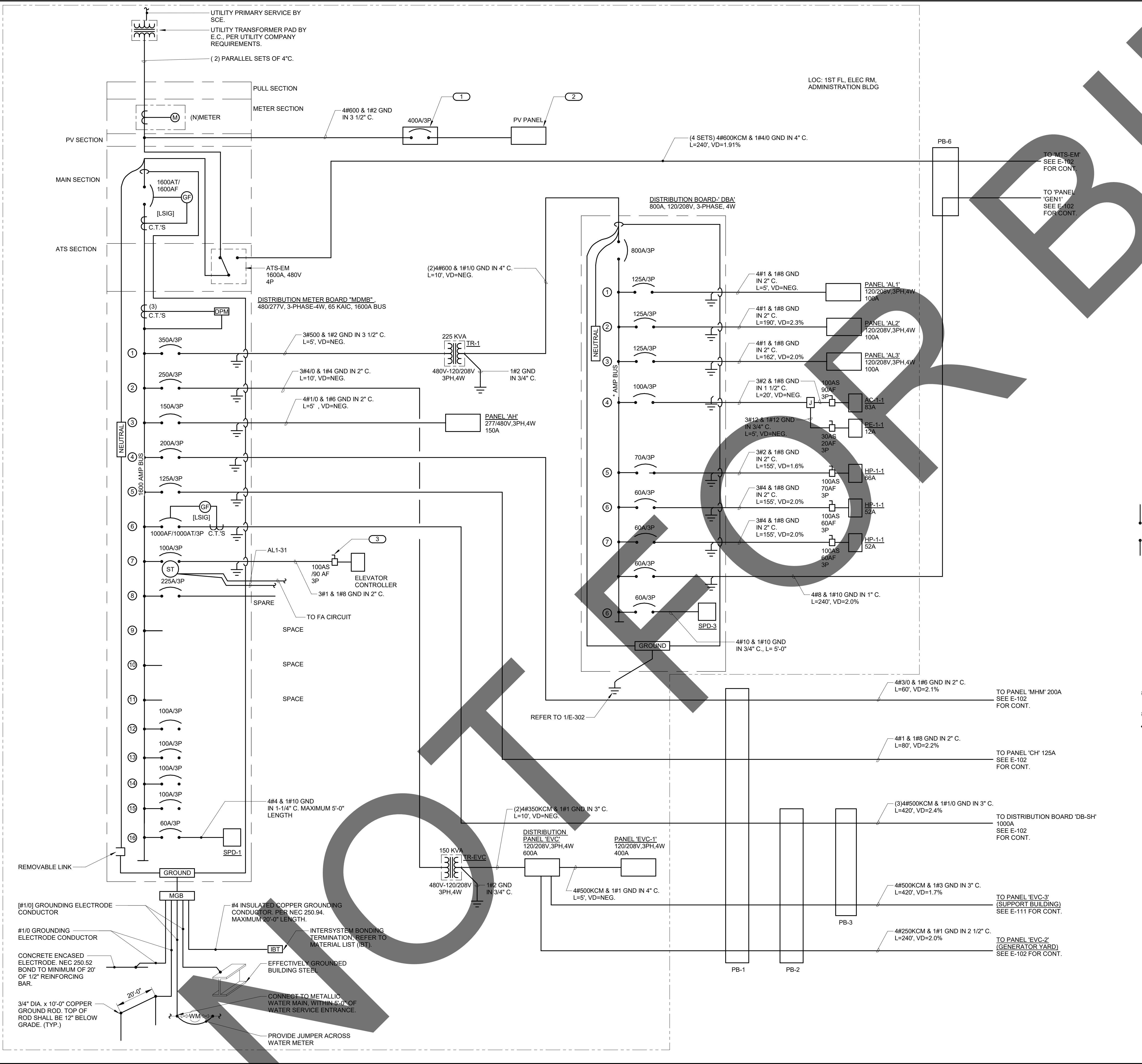
ELECTRICAL
COVERSHEET

sheet number

E-100

Sheet Of Sheets

ELECTRICAL CONNECTION SCHEDULE																						
	ITEM	LOCATION	VOLTAGE	LOAD CLASS.	MOTOR	MOTORS								APPARENT LOAD	FLA	MCA	MOCP	CIRCUIT NUMBER	WIRE AND RACEWAY	COMMENTS		
AH	AC-1-1		480 V, 3Ø	Power	No	QTY	@	HP	QTY	@	HP	QTY	@	HP								
AL1															30.77 kVA	82.4 A	94.9 A	200 A	10,12,14		3#3 & 1#6 EGC IN 1" C.	
	EF-1-1		120 V, 1Ø	Power	Yes	1	@	0.25	0	-	0	0	-	0	0.70 kVA	5.8 A	7.3 A	15 A	18		2#10 & 1#10 EGC IN 3/4" C.	
	EF-1-2		120 V, 1Ø	Power	Yes	1	@	0.17	0	-	0	0	-	0	0.53 kVA	4.4 A	5.5 A	15 A	32		2#10 & 1#10 EGC IN 3/4" C.	
	EF-1-3		120 V, 1Ø	Power	Yes	1	@	0.17	0	-	0	0	-	0	0.53 kVA	4.4 A	5.5 A	15 A	18		2#10 & 1#10 EGC IN 3/4" C.	
	FC-1-1		208 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	0.96 kVA	4.6 A	5.7 A	15 A	19,21		2#12 & 1#12 EGC IN 3/4" C.	
	FC-1-2		208 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	0.96 kVA	4.6 A	5.7 A	15 A	23,25		2#12 & 1#12 EGC IN 3/4" C.	
	FC-1-3		208 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	0.64 kVA	3.1 A	3.9 A	15 A	23,25		2#12 & 1#12 EGC IN 3/4" C.	
	FC-1-4		208 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	0.96 kVA	4.6 A	5.7 A	15 A	27,29		2#12 & 1#12 EGC IN 3/4" C.	
	FC-1-5		208 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	0.64 kVA	3.1 A	3.9 A	15 A	27,29		2#12 & 1#12 EGC IN 3/4" C.	
	FC-1-6		208 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	0.57 kVA	2.8 A	3.4 A	15 A	24,26		2#10 & 1#10 EGC IN 3/4" C.	
	FC-1-7		208 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	0.72 kVA	3.5 A	4.3 A	15 A	24,26		2#10 & 1#10 EGC IN 3/4" C.	
	FC-1-8		208 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	0.64 kVA	3.1 A	3.9 A	15 A	24,26		2#10 & 1#10 EGC IN 3/4" C.	
	SS-1		208 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	5.82 kVA	0 A	28 A	35 A	20,22		3#8 & 1#8 EGC IN 3/4" C.	
	SS-2		208 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	5.82 kVA	0 A	28 A	35 A	28,30		3#8 & 1#8 EGC IN 3/4" C.	
AL2																						
	WH-4		208 V, 3Ø	Power	No	0	-	0	0	-	0	0	-	0	9.00 kVA	0 A	0 A	35 A	19,21,23		3#8 & 1#10 EGC IN 3/4" C.	
CL																						
	AC-3-1		208 V, 3Ø	Power	No	0	-	0	0	-	0	0	-	0	26.91 kVA	72.9 A	83 A	90 A	24,26,28		3#1 & 1#8 EGC IN 1 1/4" C.	
	EF-3-1		120 V, 1Ø	Power	Yes	1	@	0.5	0	-	0	0	-	0	0.37 kVA	0 A	12.3 A	20 A	9		2#12 & 1#12 EGC IN 3/4" C.	
	SS-5		208 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	5.82 kVA	0 A	0 A	35 A	20,22		2#8 & 1#10 EGC IN 3/4" C.	
	WH-2		208 V, 3Ø	Power	No	0	-	0	0	-	0	0	-	0	9.00 kVA	0 A	0 A	35 A	13,15,17		3#8 & 1#10 EGC IN 3/4" C.	
DLM1																						
	AC-5-1		208 V, 3Ø	Power	No	0	-	0	0	-	0	0	-	0	26.91 kVA	72.9 A	83 A	90 A	15,17,19		3#1 & 1#4 EGC IN 1 1/4" C.	
	EF-5-1		120 V, 1Ø	Power	Yes	1	@	0.5	0	-	0	0	-	0	0.37 kVA	0 A	12.3 A	20 A	13		2#12 & 1#12 EGC IN 3/4" C.	
	EF-5-2		120 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	0.13 kVA	0 A	0 A	0 A	21		2#10 & 1#10 EGC IN 3/4" C.	
	EF-5-3		120 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	0.13 kVA	0 A	0 A	0 A	21		2#10 & 1#10 EGC IN 3/4" C.	
	EF-5-4		120 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	0.13 kVA	0 A	0 A	0 A	21		2#10 & 1#10 EGC IN 3/4" C.	
	EF-5-5		120 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	0.13 kVA	0 A	0 A	0 A	21		2#10 & 1#10 EGC IN 3/4" C.	
	WH-1		208 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	4.80 kVA	0 A	0 A	30 A	26,28		2#10 & 1#10 EGC IN 3/4" C.	
	WH-5		208 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	3.00 kVA	12.3 A	15.4 A	30 A	18,20		2#12 & 1#12 EGC IN 3/4" C.	
DLM2																						
	AC-6-1		208 V, 3Ø	Power	No	0	-	0	0	-	0	0	-	0	26.26 kVA	72.9 A	83 A	90 A	19,21,23		3#2 & 1#8 EGC IN 1 1/4" C.	
	EF-6-1		120 V, 1Ø	Power	Yes	1	@	0.5	0	-	0	0	-	0	1.18 kVA	9.8 A	12.3 A	20 A	16		2#12 & 1#12 EGC IN 3/4" C.	
	EF-6-2		120 V, 1Ø	Power	Yes	1	@	0.17	0	-	0	0	-	0	0.53 kVA	4.4 A	5.5 A	15 A	24		2#6 & 1#6 EGC IN 3/4" C.	
	EF-6-3		120 V, 1Ø	Power	Yes	1	@	0.17	0	-	0	0	-	0	0.53 kVA	4.4 A	5.5 A	15 A	24		2#6 & 1#6 EGC IN 3/4" C.	
	EF-6-4		120 V, 1Ø	Power	Yes	1	@	0.17	0	-	0	0	-	0	0.53 kVA	4.4 A	5.5 A	15 A	24		2#6 & 1#6 EGC IN 3/4" C.	
	EF-6-5		120 V, 1Ø	Power	Yes	1	@	0.17	0	-	0	0	-	0	0.53 kVA	4.4 A	5.5 A	15 A	24		2#6 & 1#6 EGC IN 3/4" C.	
	WH-1		208 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	4.80 kVA	0 A	0 A	30 A	25,27		2#10 & 1#10 EGC IN 3/4" C.	
	WH-5		208 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	3.00 kVA	12.3 A	15.4 A	30 A	18,20		2#12 & 1#12 EGC IN 3/4" C.	
DLM3																						
	AC-7-1		208 V, 3Ø	Power	No	0	-	0	0	-	0	0	-	0	26.91 kVA	72.9 A	83 A	90 A	16,18,20		3#2 & 1#8 EGC IN 1 1/4" C.	
	EF-7-1		120 V, 1Ø	Power	Yes	1	@	0.5	0	-	0	0	-	0	0.28 kVA	9.8 A	12.3 A	20 A	21		2#12 & 1#12 EGC IN 3/4" C.	
	EF-7-2		120 V, 1Ø	Power	Yes	1	@	0.17	0	-	0	0	-	0	0.53 kVA	4.4 A	5.5 A	15 A	15		2#6 & 1#6 EGC IN 3/4" C.	
	EF-7-3		120 V, 1Ø	Power	Yes	1	@	0.17	0	-	0	0	-	0	0.53 kVA	4.4 A	5.5 A	15 A	15		2#6 & 1#6 EGC IN 3/4" C.	
	EF-7-4		120 V, 1Ø	Power	Yes	1	@	0.17	0	-	0	0	-	0	0.53 kVA	4.4 A	5.5 A	15 A	15		2#6 & 1#6 EGC IN 3/4" C.	
	EF-7-5		120 V, 1Ø	Power	Yes	1	@	0.17	0	-	0	0	-	0	0.53 kVA	4.4 A	5.5 A	15 A	15		2#6 & 1#6 EGC IN 3/4" C.	
	WH-1		120 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	4.80 kVA	0 A	20 A	50 A	9		2#6 & 1#10 EGC IN 3/4" C.	
	WH-5		208 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	3.00 kVA	12.3 A	15.4 A	30 A	23,25		2#12 & 1#12 EGC IN 3/4" C.	
DLM4																						
	AC-8-1		208 V, 3Ø	Power	No	0	-	0	0	-	0	0	-	0	26.91 kVA	72.9 A	83 A	90 A	18,20,22		3#4 & 1#8 EGC IN 1" C.	
	EF-8-1		120 V, 1Ø	Power	Yes	1	@	0.5	0	-	0	0	-	0	1.18 kVA	9.8 A	12.3 A	20 A	21		2#12 & 1#12 EGC IN 3/4" C.	
	EF-8-2		120 V, 1Ø	Power	Yes	1	@	0.17	0	-	0	0	-	0	0.13 kVA	0 A	5.5 A	15 A	8		2#12 & 1#12 EGC IN 3/4" C.	
	EF-8-3		120 V, 1Ø	Power	Yes	1	@	0.17	0	-	0	0	-	0	0.13 kVA	0 A	5.5 A	15 A	8		2#12 & 1#12 EGC IN 3/4" C.	
	EF-8-4		120 V, 1Ø	Power	Yes	1	@	0.17	0	-	0	0	-	0	0.13 kVA	4.4 A	5.5 A	15 A	8		2#12 & 1#12 EGC IN 3/4" C.	
	EF-8-5		120 V, 1Ø	Power	Yes	1	@	0.17	0	-	0	0	-	0	0.13 kVA	4.4 A	5.5 A	15 A	8		2#12 & 1#12 EGC IN 3/4" C.	
	WH-1		120 V, 1Ø	Power	No	0	-	0	0	-	0	0	-	0	4.80 kVA	0 A	0 A	50 A	23		2#6 & 1#10 EGC IN 3/4" C.	
	WH-5		208 V, 3Ø	Power	No	0	-	0	0	-	0	0	-	0	3.00 kVA	12.3 A	15.4 A	30 A	1,3,5		3#12 & 1#12 EGC IN 3/4" C.	
DLM5																						
	AC-10-1		208 V, 3Ø	Power	No	0	-	0	0	-	0	0	-	0	26.91 kVA	72.9 A	83 A	90 A	14,16,18		3#2 & 1#8 EGC IN 1 1/4" C.	
	EF-10-1		120 V, 1Ø	Power	Yes	1	@	0.5	0	-	0	0	-	0	1.18 kVA	0 A	12.3 A	20 A	15		2#12 & 1#12 EGC IN 3/4" C.	
	EF-10-2		120 V, 1Ø	Power	Yes	1	@	0.17	0	-	0	0	-	0	0.53 kVA	4.4 A	5.5 A	15 A	12		2#6 & 1#6 EGC IN 3/4" C.	
	EF-10-3		120 V, 1Ø	Power	Yes	1	@															



GENERAL NOTES

A. AIC RATINGS LISTED FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.

B. TRANSFER SWITCHES (SCCR) RATINGS ARE INTENDED AS WITHSTAND AND CLOSE RATINGS WCR.

C. CONDUCTOR AND CONDUIT SIZES ON THE LINE AND LOAD SIDES OF ALL NON-FUSIBLE DISCONNECT SWITCHES SHALL BE IDENTICAL UNLESS NOTED OTHERWISE.

D. SCE PROVIDE MAIN UTILITY TRANSFORMER, BUT CONTRACTOR TO PROVIDE GROUNDING AND INFRASTRUCTURE.

E. PV SOLAR ARRAY DESIGN BY OTHER.

LOC: 1ST FL. ELEC RM, ADMINISTRATION BLDG

TO 'MTS-EM' SEE E-102 FOR CONT.

TO 'PANEL GEN1' SEE E-102 FOR CONT.

KEYNOTES:

- SPECIFY FUSIBLE SWITCH WITH VIEWING GLASS.
- PROVIDED BY OTHER ON SEPARATE PERMIT.
- DISCONNECT WITH AUXILIARY CONTACTS PER ELEVATOR REQUIREMENTS.

ONE LINE DIAGRAM SYMBOLS

INDICATES DIRECT CONNECTION OF GROUND CONDUCTOR TO GROUND BUS. SUBSCRIPT 'T' INDICATES DIRECT CONNECTION OF ISOLATED GROUND CONDUCTOR TO ISOLATED GROUND BUS. SUBSCRIPT 'S' INDICATES DIRECT CONNECTION OF CONDUCTOR SHIELD TO GROUND BUS.

INDICATES O.Z. GEDNEY OR EQUAL GROUND BUSHING BONDED TO GROUND BUS WITH CONDUCTOR SIZED TO MAXIMUM FEEDER GROUND CAPACITY.

CIRCUIT BREAKER CHARACTERISTICS:

a. [AF] INDICATES MOLDED/INSULATED CASE BREAKER FRAME SIZE, FOR ADJUSTABLE TRIP BREAKERS.

b. [AT] INDICATES MOLDED/INSULATED CASE BREAKER TRIP UNIT RATING, FOR ADJUSTABLE TRIP BREAKERS.

c. [LSIG] INDICATES FEATURES PROVIDED WITH SOLID STATE CIRCUIT BREAKER. (LONG TIME (W/Delay), SHORT TIME (W/Delay), INSTANTANEOUS, GROUND FAULT).

e. [AER] INDICATES ARC ENERGY REDUCTION SYSTEM

f. [100% RATED] INDICATES MOLDED/INSULATED CASE BREAKER RATED FOR FULL CONTINUOUS CAPACITY OF CIRCUIT BREAKER NAMEPLATE.

INDICATES GROUND FAULT RELAY.

INDICATES DIGITAL POWER MONITOR.

INDICATES KILOWATT-HOUR METER AS SUPPLIED BY UTILITY COMPANY.

INDICATES CURRENT TRANSFORMER, SIZE AS SPECIFIED.

INDICATES POTENTIAL TRANSFORMER, SIZE AS SPECIFIED.

INDICATES DRAWOUT DEVICE.

INDICATES SHUNT TRIP BREAKER.

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architecture interiors planning

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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	PS
Issue Date:	05/17/24

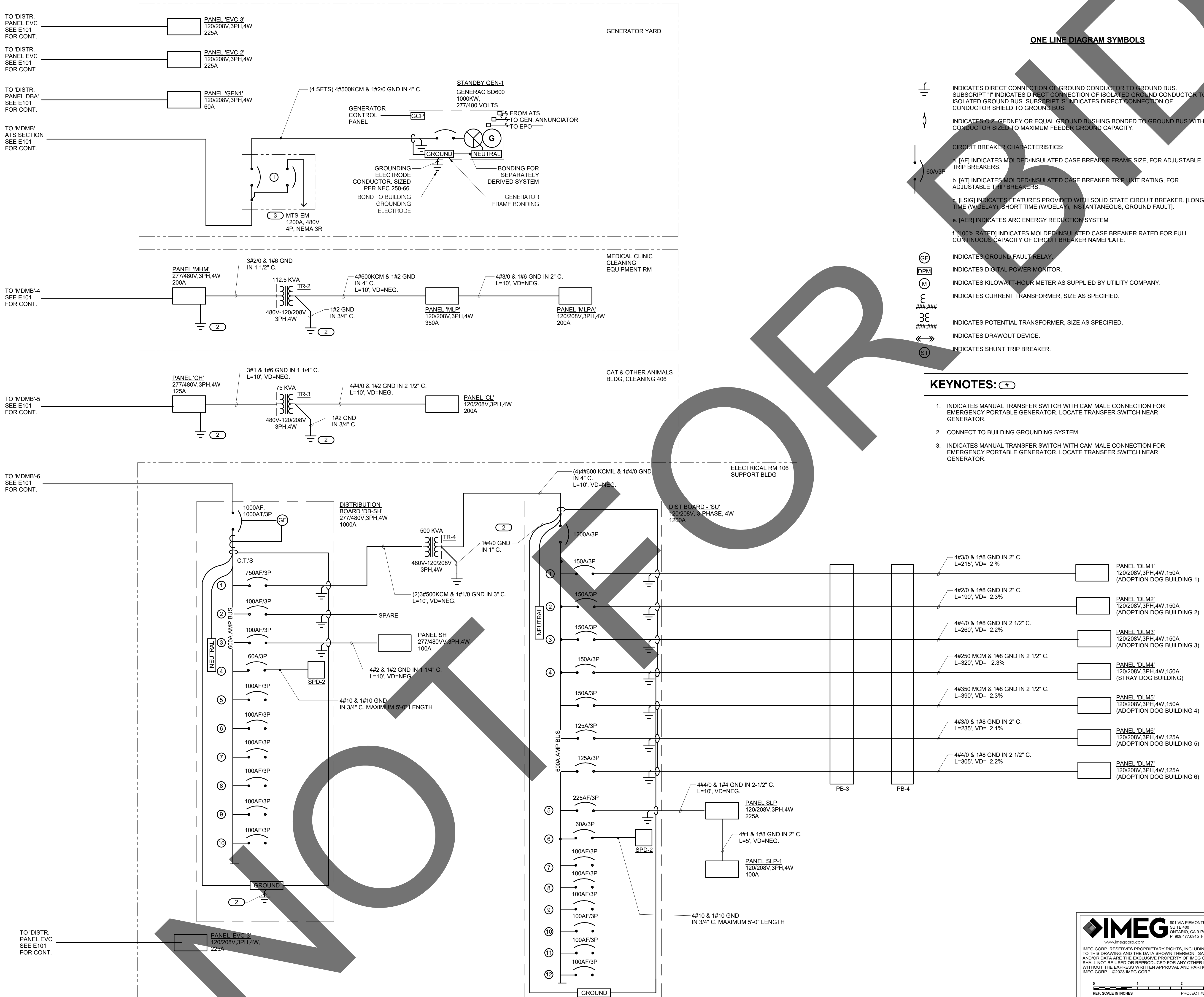
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SINGLE LINE DIAGRAM

sheet number

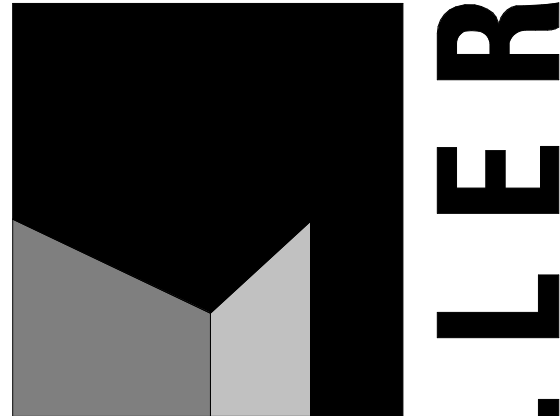
E-101

Sheet Of Sheets



ONE LINE DIAGRAM SYMBOLS

- INDICATES DIRECT CONNECTION OF GROUND CONDUCTOR TO GROUND BUS. SUBSCRIPT "1" INDICATES DIRECT CONNECTION OF ISOLATED GROUND CONDUCTOR TO ISOLATED GROUND BUS. SUBSCRIPT "S" INDICATES DIRECT CONNECTION OF CONDUCTOR SHIELD TO GROUND BUS.
- INDICATES O.Z. GEDNEY OR EQUAL GROUND BUSHING BONDED TO GROUND BUS WITH CONDUCTOR SIZED TO MAXIMUM FEEDER GROUND CAPACITY.
- CIRCUIT BREAKER CHARACTERISTICS:
- [AF] INDICATES MOLDED/INSULATED CASE BREAKER FRAME SIZE, FOR ADJUSTABLE TRIP BREAKERS.
 - [AT] INDICATES MOLDED/INSULATED CASE BREAKER TRIP UNIT RATING, FOR ADJUSTABLE TRIP BREAKERS.
 - [LSIG] INDICATES FEATURES PROVIDED WITH SOLID STATE CIRCUIT BREAKER. [LONG TIME (W/DLAY), SHORT TIME (W/DLAY), INSTANTANEOUS, GROUND FAULT].
 - [AER] INDICATES ARC ENERGY REDUCTION SYSTEM
 - [100% RATED] INDICATES MOLDED/INSULATED CASE BREAKER RATED FOR FULL CONTINUOUS CAPACITY OF CIRCUIT BREAKER NAMEPLATE.
- INDICATES GROUND FAULT RELAY.
- INDICATES DIGITAL POWER MONITOR.
- INDICATES KILOWATT-HOUR METER AS SUPPLIED BY UTILITY COMPANY.
- INDICATES CURRENT TRANSFORMER, SIZE AS SPECIFIED.
- INDICATES POTENTIAL TRANSFORMER, SIZE AS SPECIFIED.
- INDICATES DRAWOUT DEVICE.
- INDICATES SHUNT TRIP BREAKER.



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initials	date	phase

revisions/addenda

#	Date	Comment
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ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number: 1227
Drawn By: Author
Checked By: PS
Issue Date: 05/17/24

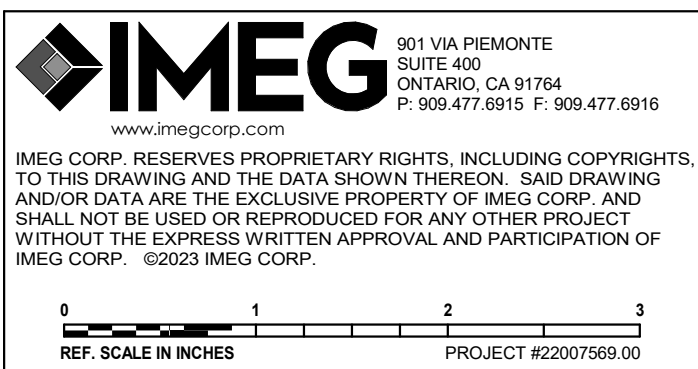
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SINGLE LINE
DIAGRAM (CONT'D)

sheet number

E-102

Sheet Of Sheets



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LED LUMINAIRE SCHEDULE

(DESC) DOOR: FA - FLAT ALUMINUM FS - FLAT STEEL RA - REGRESSED... RS - REGRESSED STEEL FINISH: PAF - PAINT AFTER... CPSA - COLOR-FINISH SELECTION BY ARCHITECT	DISTRIBUTION: II - ANSI/IES TYPE 2... III - ANSI/IES TYPE 3... IV - ANSI/IES TYPE 4... V - ANSI/IES TYPE 5... RE - RECESSED SP - SUSPENDED SU - SURFACE UC - UNDER CABINET WL - WALL O - OTHER (SEE DESCRIPTION)	BEAMWIDTH: NSP - VERY NARROW SPOT SP - SPOT MD - MEDIUM WD - WIDE VWD - VERY WIDE WW - WALL WASH	(L/L) LENS/LOUVER: A - 125" ACRYLIC B - BAFFLE/LOUVER C - CLEAR ALZAK F - FROSTED ACRYLIC G - TEMPERED GLASS K - KSH12 .125" ACRYLIC	K19 - KSH19 .156" ACRYLIC M - MATTE DIFFUSE CLEAR N - NONE P - POLYCARBONATE R - HIGH IMPACT DR ACRYLIC SS - SEMI-SPECULAR CLEAR O - OTHER (SEE DESCRIPTION) [DESIGN SPECIFIC BLANKS]
(MTG) MOUNTING: CL - CEILING SURFACE CV - COVE FR - FLANGED RECESSED P - PERIMETER PL - POLE	RE - RECESSED SP - SUSPENDED SU - SURFACE UC - UNDER CABINET WL - WALL O - OTHER (SEE DESCRIPTION)		(WATT) PER: FIX - FIXTURE, FT - FOOT, LAMP (TYPE) LED RGB - COLOR CHANGING LED LED - LIGHT EMITTING DIODE TLLED - TUBULAR LED LAMP OLED - ORGANIC LED DLED - DYNAMIC TUNABLE LED	
(TYPE) DRIVER: 0-10V - 0-10V DIMMING DALI - DIGITAL... DMX - DIGITAL MULTIPLEX	EB - ELECTRONIC ELV - ELECTRONIC LOW... EM - EMERGENCY BATTERY	HL - HIGH/LOW (100%/50%)... LINE - LINE VOLTAGE... ML - MULT-LEVEL	MV - MULTI-VOLTAGE... REM - REMOTE O - OTHER (SEE DESCRIPTION)	

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.

VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER. CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER. UNLESS INDICATED ON LIGHTING PLANS OR BELOW, REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS AND DETAILS FOR ALL...

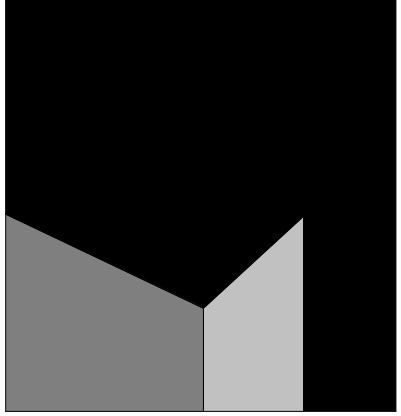
REFER TO SPECIFICATION SECTIONS LED LIGHTING 28 51 19 FOR ADDITIONAL INFORMATION AND REQUIREMENTS. INTERIOR CORRELATED COLOR TEMPERATURE 3500, 4000/4100 K, COLOR RENDERING INDEX (CRI) AT OR ABOVE [80, 85, 90], UNLESS NOTED OTHERWISE. EXTERIOR CORRELATED COLOR TEMPERATURE 3500, 4000/4100 K, COLOR RENDERING INDEX (CRI) AT OR ABOVE [80, 85, 90], UNLESS NOTED OTHERWISE.

ITEM	DESCRIPTION	WATT		TYPE	QTY	LED		DRIVER		MANUFACTURER AND MODEL
		ANSI WATTS	PER			DELIVERED LUMENS (MIN)	VOLTS	TYPE		
A	2X4 TROFFER CENTER ELEMENT LAYIN TROFFER WITH NLIGHT ENABLED OPTION AS INDICATED PER PLANS	33 W	FIX	LED	0	4257 LM	277 V	0-10V		LITHONIA STAK 2X4 4000LM 80CRI 40K COL MVOLT (NLIGHT)
A1	2X4 TROFFER CENTER ELEMENT LAYIN TROFFER WITH NLIGHT ENABLED OPTION AS INDICATED PER PLANS	33 W	FIX	LED	0	4257 LM	120 V	0-10V		LITHONIA STAK 2X4 4000LM 80CRI 40K COL MVOLT (NLIGHT)
B	2X2 TROFFER CENTER ELEMENT LAYIN TROFFER WITH NLIGHT ENABLED OPTION AS INDICATED PER PLANS	17 W	FIX	LED	0	2311 LM	277 V	0-10V		LITHONIA STAK 2X2 2000LM 80CRI 40K COL MVOLT (NLIGHT)
B1	2X2 TROFFER CENTER ELEMENT LAYIN TROFFER WITH NLIGHT ENABLED OPTION AS INDICATED PER PLANS	17 W	FIX	LED	0	2311 LM	120 V	0-10V		LITHONIA STAK 2X2 2000LM 80CRI 40K COL MVOLT (NLIGHT)
C	4" WIDE ADA COMPLIANT 1-3/8" DEEP LINEAR WALL SONE WITH TRIANGULAR WIDESPRED ILLUMINAITON LENS	14 W	FIX	LED	0	500 LM/FT	277 V	0-10V		PINNACLE ARCHITECTURAL LIGHTING V4D-A-840LO-PER PLANS-WA-U-FSD-1-0-FINISH
D	ULTRA LINEAR PENDANT MOUNTED FIXTURE, DIRECT PERFORMANCE	7 W	FT	LED	1	925 LM/FT	277 V	0-10V		A. LIGHT, ACL5-M8-LS-35-90CRI-U-HE-W-D-E C-Q-0-277V
D1	LINEAR LED SYSTEM RECESSED	5 W	FT	LED	1	LUMENS/FT	120 V	0-10V		BEGHELLI, -BX910LED2HTLOWT40120-277V
D2	ULTRA LINEAR PENDANT MOUNTED FIXTURE, DIRECT PERFORMANCE	5 W	FT	LED	1	572 LM/FT	120 V	0-10V		A. LIGHT, ACL5-M8-LS-35-90CRI-U-HE-W-D-E C-Q
D2a	ULTRA LINEAR PENDANT MOUNTED FIXTURE, DIRECT PERFORMANCE	5 W	FT	LED	1	572 LM/FT	277 V	0-10V		A. LIGHT, ACL5-M8-LS-35-90CRI-U-HE-W-D-E C-Q-0-277V
D3	ULTRA LINEAR SURFACE MOUNTED FIXTURE, DIRECT PERFORMANCE	5 W	FT	LED	1	572 LM/FT	120 V	0-10V		A. LIGHT, ACL5-M8-LS-35-90CRI-U-HE-W-D-E C-Q
E	OPEN RECESSED DOWNLIGHT, CLEAR SPECULAR PARABOLIC SELF TRIMMING REFLECTOR, DAMP LABEL.	19 W	FIX		0		277 V	EB		PORTFOLIO HD6-6701 C PRESOOLITE 1224-ST362 GOTHAM A6AR
EX	EXIT LIGHT	0 W	FIX	LED	1	L.E.D.	277 V	0-10V		LRP-W-1-GW-120/277
I	6" WIDE SURFACE MOUNTED LIENAR LIGHT WITH EXTRUDED FLAT FRAME. SURFACE MOUNTED KIT AS NEEDED PER PLANS	33 W	FIX	LED	0	1000 LM/FT	277 V	0-10V		LITHONIA LIGHTING LSIX PER PLANS 4000LM 80CRI 40K FFR SWL MIN10 ST MVOLT MW (06x PER PLANS SMKSH PAF)
I1	4FT CEILING MOUNTED LED FIXTURE	26 W	FIX	LED	0	3955	277 V	0-10V		LITHONIA LIGHTING, CLX-L48-4000LM-SEF-FDL-MVOLT-40K-80CRI.
J	<varies>	<varies>	FIX	LED	0	<varies>	277 V	0-10V		<varies>
J1	2X2 FULLY IUMINOUS NSF RATED FLAT PANEL, NLIGHT ENABLED AND SURFACE KIT AS NEEDED PER PLANS	33 W	FIX		0	4000	120 V	0-10V		LITHONIA LIGHTING EPANL 2x2 4000LM 80CRI 40K MIN10 ZT MVOLT (NLIGHT) (2X4SMKSH)
K	4" LED SURFACE MOUNTED LIGHT WITH DROP LENS	8 W	FT	LED	1	5000 LM	277 V	0-10V		3G LIGHTING , 3G-4SLI-D1250 S80 40K UNV DIM DD1 EMB
K1	4" LED SURFACE MOUNTED LIGHT WITH DROP SATIN ACRYLIC LENS	7 W	FT	LED	0	2750 LM	120 V	0-10V		CORONET US1 LED SQ 4FT 4000K MED UNV DB FINISH SM
L	3" LED WET LOCATION ROUND DOWNLIGHT, DIFFUSED LENS	14 W	FIX	LED	0	774 LM	277 V	0-10V		LEDRABRANDS, NUE3-RD-SW-10LM-30K-90-55D-DL -WH-WH
P	4" LINEAR WALLMOUNTED LED IN ELEVATOR PIT	30 W	FIX	LED	2	4375	277 V	0-10V		BS100LED-4HT-VLOWT30-120-277 V
S1	AREA LIGHT SQUARE	102 W	FIX	LED	1	LUMENS	277 V	0-10V		DSX1 LED P3 40K 70CRI BLC3
S2	AREA LIGHT SQUARE	102 W	FIX	LED	1	LUMENS	277 V	0-10V		DSX1 LED P3 40K 70CRI T9W
U	3" ROUND ADJUSTABLE WET LOCATION LENSED DOWNLIGHT WITH DIECAST BEVELED TRIM	14 W	FIX	LED	1	1350 LM	277 V	0-10V		USAI LIGHTING P23UF-15L2-UNV-D22-NCEC-HSG P3RAF-15L2-40KS-S-WH
U1	3" ROUND ADJUSTABLE WET LOCATION LENSED DOWNLIGHT WITH DIECAST BEVELED TRIM	14 W	FIX	LED	1	1350 LM	120 V	0-10V		USAI LIGHTING P23UF-15L2-UNV-B22-NCEC-HSG P3RAF-15L2-40KS-S-WH
W3	WALL PACK LUMINAIRE, PRISMATIC GLASS LENS, ALUMINUM HOUSING, POWDER COAT FINISH, GASKETED, [CUSTOM] COLOR SELECTION BY ARCHITECT FROM STANDARD COLORS, LISTED WET LOCATION.	22 W	FIX	MH	1	MH70/E17	277 V	0-10V		TWX1 LED P2 40K MVOLT
W3a	WALL PACK LUMINAIRE, PRISMATIC GLASS LENS, ALUMINUM HOUSING, POWDER COAT FINISH, GASKETED, [CUSTOM] COLOR SELECTION BY ARCHITECT FROM STANDARD COLORS, LISTED WET LOCATION.	22 W	FIX	MH	1	MH70/E17	120 V	120V		TWX1 LED P2 40K MVOLT MHWL70W-120V LITHONIA DAY-BRITE
X1	EXIT LIGHT	0 W	FIX	LED	1	L.E.D.	120 V	0-10V		LRP-W-1-GW-120/277
X2	EXIT LIGHT	0 W	FIX	LED	1	<varies>	<varies>	0-10V		LRP-W-1-GW-120/277
X3	EXIT LIGHT	0 W	FIX	LED	1	L.E.D.	277 V	0-10V		LRP-W-1-GW-120/277
X4	EXIT LIGHT	0 W	FIX	LED	1	<varies>	277 V	0-10V		LRP-W-1-GW-120/277

TRANSFORMER SCHEDULE

TYPE:		ACCESSORIES & OPTIONS
K1 - DOE 2016 DRY TYPE	AUT - AUTOTRANSFORMER	AL - ALUMINUM WINDINGS
K4 - K4 RATED DRY TYPE	BB - BUCK BOOST	CU - COPPER WINDINGS
K13 - K13 RATED DRY TYPE	LIQ - LIQUID FILLED	RS - EPOXY RESIN ENCAPSULATED
HM - HARMONIC MITIGATING		FL - FILTERED
PE - NEMA PREMIUM EFFICIENCY		NV - NON-VENTILATED
		NL - 200% RATED NEUTRAL
		EL - ELECTROSTATIC SHIELD

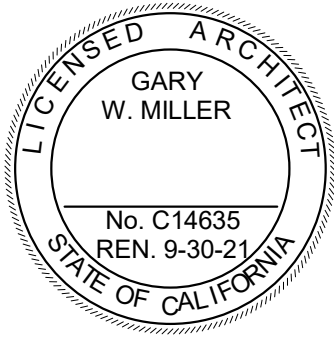
ITEM	KVA RATING	TYPE	ENCLOSURE	MAX TEMP. RISE C.	PRIMARY VOLTS	PH	SECONDARY VOLTS	PH	REQUIRED ACCESSORIES & OPTIONS	COMMENTS
75KVA TR-3	75 KVA	K4 K13		150 115 80	480	3	120/208	3	AL, CU, NL	
112.5KVA TR-2	112.5 KVA	K4 K13		150 115 80	480	3	120/208	3	AL, CU, NL	
150KVA TR-1	150 KVA	K4 K13		150 115 80	480	3	120/208	3	AL, CU, NL	
150KVA TR-EVC	150 KVA	K4 K13		150 115 80	480	3	120/208	3	AL, CU, NL	
500KVA TR4	500 KVA	K4 K13		150 115 80	480	3	120/208	3	AL, CU, NL	



architecture
interiors
planning



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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment
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ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number: 1227
Drawn By: Author
Checked By: PS
Issue Date: 05/17/24

sheet name

LUMINAIRE
SCHEDULE

sheet number

E-104

Sheet Of Sheets

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REF. SCALE IN INCHES PROJECT #2207569.00

PRELIMINARY
NOT FOR
CONSTRUCTION

ENCLOSURE: NEMA 1
FED FROM: 1,600 A/3P @
LOCATION: MECHANICAL/ ELECTRICAL 147

SOLID NEUTRAL
GROUND BUS

MAIN: 1,600 A MCCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC: 30.00 kA

NOTES:

CKT	LOAD DESCRIPTION	LOAD	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT KEY
1	225KVA TR-1	208.88 kVA	3	400 A	350 A			4#500 & 1#3 EGC IN 3" C.	
2	150KVA TR-EVC	240 kVA	3	250 A	225 A			3#4/0 & 1#4 GND IN 2" C.	
3	AH	70.3 kVA	3	200 A	100 A			4#3 & 1#8 EGC IN 1 1/4" C.	
4	MHM	112.97 kVA	3	200 A	200 A			4#4/0 & 1#4 EGC IN 2 1/2" C.	
5	CH	58.92 kVA	3	250 A	125 A			4#1 & 1#8 EGC IN 2" C.	
6	DB-SH	387.31 kVA	3	1,200 A	1,000 A			(6) SETS OF 4#600 & 1#400 EGC EACH IN 3 1/2" C.	
7	ELEV	30 kVA	3	225 A	100 A			3#1 & 1#8 EGC IN 1 1/4" C.	
8									
9									
10									
11									
12									

LOAD SUMMARY (INCLUDES ALL TUBS IN THIS PANEL)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
HVAC	0 kVA	0.00%	0 kVA	
Kitchen Equip.	6.24 kVA	88.46%	5.52 kVA	TOTAL CONNECTED LOAD: 1108.38 kVA
Lighting	45.026 kVA	105.55%	47.526 kVA	TOTAL ESTIMATED DEMAND LOAD: 1098.03 kVA
Other	0 kVA	0.00%	0 kVA	TOTAL CONNECTED AMPS: 1333.17 A
Power	562.474 kVA	100.00%	562.474 kVA	TOTAL ESTIMATED DEMAND AMPS: 1,320.7 A
Receptacles	130.54 kVA	53.83%	70.27 kVA	
Spare	95.3 kVA	80.00%	76.24 kVA	
EVCS	268.8 kVA	125.00%	336 kVA	

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL AL1																	
MOUNTING: SURFACE ENCLOSURE: NEMA PB 1 FED FROM: 125 A/3P @ DP-DBA LOCATION: MECHANICAL/ ELECTRICAL 147					SINGLE TUB SOLID NEUTRAL GROUND BUS					MAIN: 125 A MCB VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 SCCR: 65 kA ISC: 0.06 kA							
NOTES:																	
K E Y	CKT NO.	LOAD DESCRIPTION	OC PD AMPS	P	WIRE SIZE H N G	VD %	A	B	C	VD %	WIRE SIZE G N H	OC PD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y		
	1	RECEPT. (Adoption Lobby)	20 A	1	12 12 12 1.99	0.54	0.72			0.95	12 12 12	1	20 A	CONTROL RECEPT. (Multipurpose...	2		
	3	RECEPT. (Dog License Counter)	20 A	1	10 10 10 2.13			1.08	1.08	2.35	10 10 10	1	20 A	RECEPT. (Adoption Interview)	4		
	5	RECEPT. (Adoption Interview II)	20 A	1	10 10 10 2.09				1.26	0.9	1.43 12 12 12	1	20 A	RECEPT. (Foster Coordinator)	6		
1	7	RECEPT. (Volunteer Breakroom Fridge)	20 A	1	12 12 12 2.87	1.2	0.9			1.62	12 12 12	1	20 A	RM-139,131,RR-RECEPT.	8		
	9	RECEPT.	20 A	1	12 12 12 12 0.86			0.72	0.36	0.19	12 12 12 12	1	20 A	RECEPT. (RM 143, 144)	10		
1	11	RECEPT. (Kitchen Refrigerator)	20 A	1	12 12 12 1.36					0.1	0.1 12 12 12 12	1	20 A	FACP	12		
	13						0.54			1.55	12 12 12	1	20 A	CUST SERVICE 136 RECEPT	14		
	15	CUST SER 136 CONTROLLED...	20 A	1	10 10 10 2.41			1.26	1.2	1.55	12 12 12 12	1	20 A	Receptacles	16		
	17	AC-1-1, RECEPT	20 A	1	12 12 12 1.65				1.2	1.22	3 10 10 10 10	1	20 A	EF-1-1	18		
	19	FC-1-1	15 A	2	12 -- 12 -- 12 0.77	0.48	2.91			2.85	8 8 8 2	35 A	SS-1		20		
	21	--	--	--	--	--	--			--	--	--	--	--	22		
	23	FC-1-2& 1-3	15 A	2	12 -- 12 -- 12 2.37			0.48	2.91	0.8	0.97	2.07 10 --	10	2	15 A	FC-1-6,1-7,1-8	24
	25	--	--	--	--	--	0.8	0.97		--	--	--	--	--	26		
	27	FC-1-4& 1-5	15 A	2	12 -- 12 -- 12 2.3			0.8	2.91		0.32	8 8 8 2	35 A	SS-2		28	
	29	--	--	--	--	--	--			0.8	2.91	--	--	--	30		
	31	ELEV SHUNT TRIP	20 A	1	12 12 12 0.17	0.2	0.53			1.82	10 10 10 10	1	15 A	Power	32		
	33	RECEPT. RM-109-110	20 A	1	12 12 12 1.76			0.9	0.18	0.4	12 12 12 12	1	20 A	ELEVATOR PIT RECEPT	34		
	35	CUBICLE 9-RECEPT	20 A	1	12 12 12 1.65				1.08						36		
	37	CUBICLE 7-RECEPT	20 A	1	12 12 12 1.71	1.08	--			--	--	1	--	SPACE	38		
	39	CUB&109,110 CONTROLLED RECEPT	20 A	1	12 12 12 2.03			1.08	--	--	--	1	--	SPACE	40		
--	41	SPACE	--	1	--	--	--			--	--	1	--	SPACE	42		
Total Load:						10.87 kVA	14.96 kVA	12.45 kVA									
Total Amps:						90.56	126.72	105.74									
LOAD SUMMARY																	
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR		ESTIMATED DEMAND		TOTALS*										
Kitchen Equip.		1.2 kVA	100.00%		1.2 kVA		TOTAL CONNECTED LOAD:										
Lighting		0 kVA	0.00%		0 kVA		TOTAL ESTIMATED DEMAND LOAD:										
Power		25.436 kVA	100.00%		25.436 kVA		TOTAL CONNECTED AMPS:										
Receptacles		11.64 kVA	92.96%		10.82 kVA		TOTAL ESTIMATED DEMAND AMPS:										
							104 A										
*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.																	
CIRCUIT KEY NOTES: (1) CKT SHOULD BE GIFI TYPE																	

PANEL AH																			
MOUNTING: SURFACE ENCLOSURE: NEMA PB 1 FED FROM: 100 A/3P @ MDMB LOCATION: MECHANICAL/ ELECTRICAL 147										SINGLE TUB SOLID NEUTRAL GROUND BUS					MAIN: 100 A MCB VOLTS: 480/277 Wye PHASE: 3 WIRE: 4 SCCR: 30 kA ISC: 24.00 kA				
NOTES:																			
KEY	CKT NO.	LOAD DESCRIPTION	OC PD AMPS	P	H	WIRE SIZE N G	VD %	A	B	C	VD %	WIRE SIZE N H	P	OC PD AMPS	LOAD DESCRIPTION	CKT NO.	KEY		
	1	1ST-FL-EAST-BLDG-ADMIN-LTG	20 A	1	12	12 12 1.2	1.28	0.82			1.61	12 12 12	1	20 A	1ST-FL-MID-ENTRANCE-ADMIN-LTG	2			
	3	1ST-FL-ADMIN-LTG	20 A	1	12	12 12 1.26			1.14	1.19	1.42	12 12 12	1	20 A	1ST-FL-WEST-BLDG-ADMIN-LTG	4			
	5	EXT-CANOPY-ADMIN-LTG	20 A	1	12	12 12 0.15				0.2	0.96	1.33 12 12	1	20 A	2ND-FL-BLDG-ADMIN-LTG	6			
	7	1ST-EXT-WALLPACK-LTG	20 A	1	12	12 12 0.28	0.19	1.19			0.3	12 12 12	1	20 A	2ND LIGHTING	8			
	9	1ST EM LIGHTING	20 A	1	12	12 12 1.22			1.32	10.26	0.11	8 -- 1	3	120 A	AC-1-1	10			
	11	2ND-FL-OPEN OFFICE-LTG	20 A	1	12	12 12 0.8				0.07	10.26	--	--	--	--	12			
	13	GATE OPENER 1 WEST GATE	20 A	2	4	-- 4	2.85	3.6	10.26			--	--	--	--	14			
--	15	--	--	--	--	--	--	--	3.6	3.6	2.27	4 -- 4	2	20 A	GATE OPENER 3 EAST GATE	16			
	17	GATE OPENER 2 WEST GATE	20 A	2	4	-- 4	2.77			3.6	3.6	--	--	--	--	18			
	--	--	--	--	--	--	--	3.6	3.6	--	--	--	--	2	20 A	GATE OPENER 4 EAST GATE	20		
	21	NORTH PARKING LOT POLE LIGHT	20 A	1	8	8 8 2			0.79	3.6	--	--	--	1	20 A	PIT LTG	22		
	23	WEST PARKING LOT POLE LIGHT	20 A	1	8	8 8 2.11				1.02	0.13	--	--	1	20 A	Hoistway light	24		
	25	Lighting	20 A	1			0.29	0.13					1	20 A		26			
--	27	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	28			
--	29	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	30			
--	31	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	32			
--	33	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	34			
--	35	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	36			
--	37	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	38			
--	39	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	40			
--	41	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	42			
Total Load:							24.97 kVA	25.49 kVA	19.84 kVA										
Total Amps:							92.98	94.88	71.63										
LOAD SUMMARY																			
LOAD CLASSIFICATION			CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		TOTALS*										
Lighting			10.731 kVA		123.30%		13.231 kVA		TOTAL CONNECTED LOAD:										
Other			0 kVA		0.00%		0 kVA		TOTAL ESTIMATED DEMAND LOAD:										
Power			38.77 kVA		100.00%		30.77 kVA		TOTAL CONNECTED AMPS:										
EVCS			28.8 kVA		125.00%		36 kVA		TOTAL ESTIMATED DEMAND AMPS:										
*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.																			
CIRCUIT KEY NOTES:																			
PANEL AL2																			
MOUNTING: SURFACE ENCLOSURE: NEMA PB 1 FED FROM: 125 A/3P @ DP-DBA LOCATION: MDF 117										SINGLE TUB SOLID NEUTRAL GROUND BUS					MAIN: 125 A MCB VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 SCCR: 65 kA ISC UNKNOWN 0.00 kA				
NOTES:																			
KEY	CKT NO.	LOAD DESCRIPTION	OC PD AMPS	P	H	WIRE SIZE N G	VD %	A	B	C	VD %	WIRE SIZE N H	P	OC PD AMPS	LOAD DESCRIPTION	CKT NO.	KEY		
	1	RM-114,115-RECEPT	20 A	1	12	12 12 1.4	1.26	1.08			1.77	12 12 12	1	20 A	RM-112-113-CONTROL RECEPT.	2			
	3	CUBICLE 5-RECEPT	20 A	1	12	12 12 1.26			1.08	1.08	1.7	12 12 12	1	20 A	RM-112-113- RECEPT.	4			
	5	RM 104 MICRO-WAVE	20 A	1	12	12 12 2.13					1.2	0.9	1.44	12 12 12	1	20 A	RECEPT. OPEND OFFICE COOR	6	
	7	RM 104-106-CONTROLLED RECEPT	20 A	1	12	12 12 1.39	0.72	0.54			0.2	12 12 12	1	20 A	RECEPT. RM 119 120	8			
	9	RM 184 RESTROOM-RECEPT.	20 A	1	12	12 12 1			0.72	1.08	0.91	12 12 12	1	20 A	RECEPT. RM 118-117	10			
	11	RECEPT RM105	20 A	1	12	12 12 1.26				0.72	1.2	2.07	12 12 12	1	20 A	RECEPT. (Staff Breakroom Fridge)	12	1	
	13	RM 116-CONTROLLED RECEPT	20 A	1	12	12 12 0.51	0.54	0.18			0.48	12 12 12	1	20 A	Receptacles	14			
	15	CUBICLE 2-RECEPT	20 A	1	12	12 12 0.73			1.08	1.08	0.88	12 12 12	1	20 A	CUBICLE 3-RECEPT	16			
	17	CUBICLE 1-RECEPT	20 A	1	12	12 12 0.86					1.08	1.2	2.38	12 12 12	1	20 A	RM 104-OFFICE MAKER	18	
	19	WH4	35 A	3	8	10 0 19	3	1.08			0.8	12 12 12	1	20 A	CUBICLE 2-RECEPT	20			
--	21	--	--	--	--	--	--	--	3	1.08	1.31	12 12 12	1	20 A	CUBICLE 4-RECEPT	22			
--	23	--	--	--	--	--	--	--			3	1.26	1.3	12 12 12	1	20 A	RM-114,115-CONTROLLED-RECEPT	24	
	25	CUBICLE 5-RECEPT	20 A	1	12	12 12 1.17	1.08	1.08			1.34	12 12 12	1	20 A	CUBICLE 6	26			
	27	CUBICLE 6-RECEPT	20 A	1	12	12 12			0	1.2	2.47	12 12 12	1	20 A	RECEPT. (Animal Intake Fridge)	28	1		
	29	IDF	20 A	1							0.97	12 12 12	1	20 A	CUB-12.3 CONTROLLED RECEPT	30			
	31	IDF	20 A	1			1.5	1.08			1.43	12 12 12	1	20 A	CUB-4.5.6 CONTROLLED RECEPT	32			
	33	IDF	20 A	1				1.5	0.54		0.5	12 12 12	1	20 A	RM 116-RECEPT	34			
	35															36			
--	37	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	38	--		
--	39	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	40	--		
--	41	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	42	--		
Total Load:							13.14 kVA	13.44 kVA	13.14 kVA										
Total Amps:							109.50	112.00	109.50										
LOAD SUMMARY																			
LOAD CLASSIFICATION			CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		TOTALS*										
Kitchen Equip.			1.2 kVA		100.00%		1.2 kVA		TOTAL CONNECTED LOAD:										
Power			25.74 kVA		100.00%		25.74 kVA		TOTAL ESTIMATED DEMAND LOAD:										
Receptacles			12.78 kVA		89.12%		11.39 kVA		TOTAL CONNECTED AMPS:										
TOTAL ESTIMATED DEMAND AMPS:																			
TOTAL ESTIMATED DEMAND AMPS:																			
*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.																			
CIRCUIT KEY NOTES: (1) CKT SHOULD BE GIFT TYPE																			

[illegible]

MOUNTING: SURFACE

ENCLOSURE: NEMA PB 1

FED FROM: 200 A/3P @ MDMB

LOCATION: ELECT 5

SINGLE TUB

SOLID NEUTRAL

GROUND BUS

MAIN: 200 A MCB

VOLTS: 480/277 Wye

PHASE: 3

WIRE: 4

SCCR: 65 kA

ISC UNKNOWN 0.00 kA

NOTES:

K E Y	CKT NO.	LOAD DESCRIPTION	OCBP AMPS	P	WIRE SIZE N	G	VD %	A	B	C	VD %	WIRE SIZE G H	P	OCBP AMPS	LOAD DESCRIPTION	CKT NO.	K E Y
--	1	SPACE	--	1	--	--	--	0.64	--	--	0.3	12 12 12	1	20 A	MEDICAL CLINIC WEST BLDG LTG.	2	--
--	3	SPACE	--	1	--	--	--	--	0.9	--	0.18	12 12 12	1	20 A	MEDICAL CLINIC WEST BLDG LTG.	4	--
--	5	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	6	--
--	7	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	8	--
--	9	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	10	--
--	11	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	12	--
--	13	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	14	--
--	15	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	16	--
--	17	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	18	--
--	19	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	20	--
--	21	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	22	--
--	23	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	24	--
--	25	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	26	--
--	27	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	28	--
--	29	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	30	--
--	31	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	32	--
--	33	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	34	--
--	35	SPACE	--	1	--	--	--	--	--	--	--	--	1	--	SPACE	36	--
--	37	122.5KVA TR-2	200 A	3	1	1	6	0.13	34.49	--	--	--	--	1	SPACE	38	--
--	39	--	--	--	--	--	--	--	41.67	--	--	--	--	1	SPACE	40	--
--	41	--	--	--	--	--	--	--	--	35.27	--	--	--	1	SPACE	42	--
Total Load:								35.13 kVA	42.57 kVA	35.27 kVA							
Total Amps:								126.82	153.77	127.39							

LOAD CLASSIFICATION

CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
Lighting	4.93 kVA	125.00%	6.162 kVA
Other	0 kVA	0.00%	0 kVA
Power	89.438 kVA	100.00%	89.438 kVA
Receptacles	18.6 kVA	76.88%	14.3 kVA

TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 125 A/3P @ DP-DBA
LOCATION: MECHANICAL / ELECTRICAL 205

PANEL AL3
SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 125 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISCK UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD		P	WIRE SIZE		VD %	A	B	C	VD %	WIRE SIZE		H	P	OCPD	AMP	LOAD DESCRIPTION	CKT NO.	KEY		
			AMPS			N	G						N	H									
	1	CUBICLES-2-RECEPT	20 A	1	12	12	12	1.49	1.08	0.72			0.39	12	12	12	1	20 A	RM 204-WALL RECEPT	2			
	3	CUBICLES-5-RECEPT	20 A	1	12	12	12	1.38			1.08	1.2		0.73	12	12	12	1	20 A	RECEPT, (Staff Break Room Microwave)	4		
	5	RECEPT, (Staff Break Room...	20 A	1	12	12	12	0.8					1.2	1.08	1.45	12	12	12	1	20 A	CUB-1,2,3-CONTROLLED RECEPT	6	
	7	RM-215,216-RECEPT	20 A	1	12	12	12	2.8	1.26	1.44				2.78	12	12	12	1	20 A	RM-214-213-RECEPT	8		
	9	2ND FL-RESTROOM	20 A	1	12	12	12	0.46			0.54	1.44			2.49	12	12	12	1	20 A	RM-211,212-RECEPT	10	
	11	RM 211,212,213...	20 A	1	12	12	12	2.57					1.44	1.08	2.07	12	12	12	1	20 A	CORR-RECEPT	12	
	13	RM 217,218-RECEPT	20 A	1	12	12	12	1.66	0.9	1.08				1.07	12	12	12	1	20 A	CUB-4,5,6-CONTROLLED-RECEPT	14		
	15	CUBICLES-1-RECEPT	20 A	1	12	12	12	1.23			1.08	1.08			0.77	12	12	12	1	20 A	CUBICLES-4-RECEPT	16	
	17	RM 204,207-CONTROLLED-RECEPT	20 A	1	12	12	12	1.48					1.08	1.08	0.98	12	12	12	1	20 A	CUBICLES-5-RECEPT	18	
	19	CUBICLES-3-RECEPT	20 A	1	12	12	12	1.33	1.08	1.08					1.06	12	12	12	1	20 A	CUBICLES-5-RECEPT	20	
	21	2ND-CUBICLES-3	20 A	1	12	12	12	1.52			1.08	1.08			1.22	12	12	12	1	20 A	CUBICLES-6-RECEPT	22	
--	23	SPARE	20 A	1	--	--	--						0	1.08	1.37	12	12	12	1	20 A	CUB-7,8,9-CONTROLLED-RECEPT	24	
--	25	SPARE	20 A	1	--	--	--		0	1.08					1.34	12	12	12	1	20 A	CUBICLES-9-RECEPT	26	
	27	CUBICLES-7-RECEPT	20 A	1	12	12	12	1.14			1.08	1.5							1	20 A	Receptacles	28	
	29	RM 206-207-RECEPT	20 A	1	12	12	12	1.23					1.08	0.54	0.82	12	12	12	1	20 A	CUB-10,11,12-CONTROLLED-RECEPT	30	
	31	CUBICLES-4-RECEPT	20 A	1	12	12	12	1.21	1.08	1.08					1.66	12	12	12	1	20 A	CUB-10,11-RECEPT	32	
	33	RM 214,215,216-...	20 A	1	10	10	10	2.91			1.8	1.08			2	12	12	12	1	20 A	CUB-12,11-RECEPT	34	
--	35	SPARE	20 A	1	--	--	--						0	0	--	--	--	--	1	20 A	SPARE	36	--
--	37	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	38	--
--	39	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	40	--
--	41	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	42	--
Total Load:									11.88 kVA	14.04 kVA	9.66 kVA												
Total Amps:									101.85	119.85	80.50												

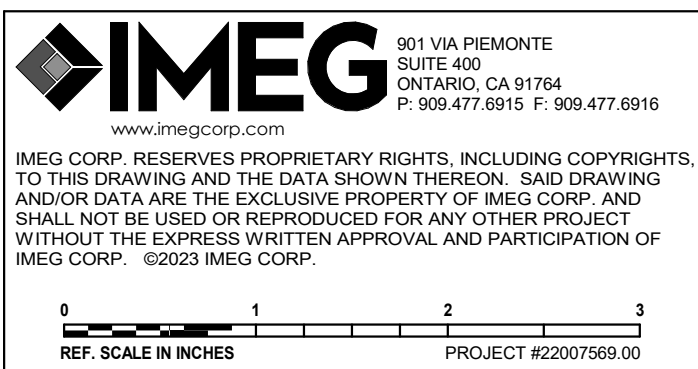
LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
Power	1.5 kVA	100.00%	1.5 kVA	
Receptacles	34.08 kVA	64.67%	22.04 kVA	
				TOTAL CONNECTED LOAD: 35.58 kVA
				TOTAL ESTIMATED DEMAND LOAD: 23.54 kVA
				TOTAL CONNECTED AMPS: 98.76 A
				TOTAL ESTIMATED DEMAND AMPS: 65.3 A

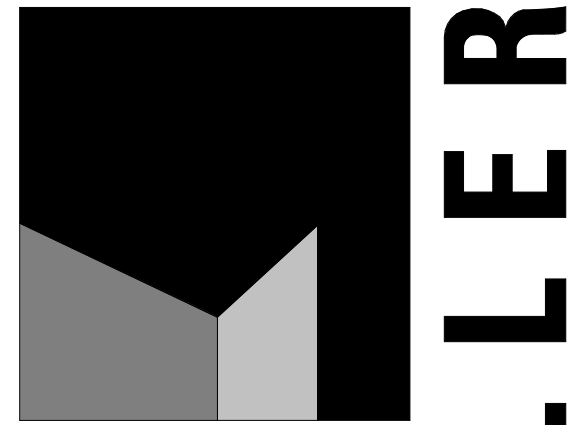
*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL-EVC	DP-DPA
PANEL-MHM	PANEL-AL3



**PRELIMINARY
NOT FOR
CONSTRUCTION**



architecture
interiors
planning



**1177 Idaho Street, Suite 200
Redlands, CA 92374
Phone: 909-335-7400
Fax: 909-335-7299
info@miller-aip.com**



owner approval

initials	date	phase

revisions/addenda

#	Date	Comment
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ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	PS
Issue Date:	05/17/24

sheet name

ELECTRICAL SCHEDULES

sheet number

E-106

Sheet Of Sheets

MOUNTING: SURFACE ENCLOSURE: NEMA PB 1 FED FROM: 350 A/3P @ 112.5KVA TR-2 LOCATION:														PANEL MLP SINGLE TUB SOLID NEUTRAL GROUND BUS														MAIN: 350 A MCB VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 SCCR: 30 KA ISC UNKNOWN 0.00 KA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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<table><tr><th>K E Y</th><th>CKT NO.</th><th>LOAD DESCRIPTION</th><th>OCPD AMPS</th><th>P</th><th>H</th><th>WIRE SIZE N G</th><th>VD %</th><th>A</th><th>B</th><th>C</th><th>VD %</th><th>WIRE SIZE N H</th><th>P</th><th>OCPD AMPS</th><th>LOAD DESCRIPTION</th><th>CKT NO.</th><th>K E Y</th></tr><tr><td></td><td>1</td><td>WALPACK</td><td>20 A</td><td>1</td><td>12</td><td>12</td><td>12</td><td>0.25</td><td>0.1</td><td>1.08</td><td></td><td></td><td></td><td>1.25</td><td>12</td><td>12</td><td>12</td><td>1</td><td>20 A</td><td>RM 2.3 RECEPT</td><td>2</td><td></td></tr><tr><td></td><td>3</td><td>LAUNDRY RECEPT</td><td>20 A</td><td>1</td><td>12</td><td>12</td><td>12</td><td>2.1</td><td></td><td>1.8</td><td>1.26</td><td></td><td></td><td>1.57</td><td>12</td><td>12</td><td>12</td><td>1</td><td>20 A</td><td>RM 10.11 RECEPT</td><td>4</td><td></td></tr><tr><td></td><td>5</td><td>DRYER</td><td>20 A</td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.94</td><td>0.54</td><td>1.06</td><td>12</td><td>12</td><td>12</td><td>1</td><td>20 A</td><td>RECEPT (Exterior)</td><td>6</td><td></td></tr><tr><td>--</td><td>7</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>0.94</td><td>0.72</td><td></td><td></td><td></td><td></td><td>1.03</td><td>12</td><td>12</td><td>12</td><td>1</td><td>20 A</td><td>RM 12.13 RECEPT</td><td>8</td><td></td></tr><tr><td></td><td>9</td><td>OFFICE CORR RECEPT.</td><td>20 A</td><td>1</td><td>12</td><td>12</td><td>12</td><td>1.76</td><td></td><td></td><td>1.08</td><td>2.28</td><td></td><td>1.01</td><td>12</td><td>12</td><td>12</td><td>1</td><td>20 A</td><td>LAB 14-COUNTER RECEPT</td><td>10</td><td></td></tr><tr><td></td><td>11</td><td>RM 1,15,16 RECEPT</td><td>20 A</td><td>1</td><td>12</td><td>12</td><td>12</td><td>1.5</td><td></td><td></td><td></td><td></td><td>0.9</td><td>1.08</td><td>1.06</td><td>12</td><td>12</td><td>12</td><td>1</td><td>20 A</td><td>RM 8.9 RECEPT</td><td>12</td><td></td></tr><tr><td></td><td>13</td><td>CP-1</td><td>20 A</td><td>1</td><td></td><td></td><td></td><td>0.18</td><td>0.54</td><td></td><td></td><td></td><td></td><td>0.9</td><td>12</td><td>12</td><td>12</td><td>1</td><td>20 A</td><td>RM 8.12-CONTROLLED RECEPT</td><td>14</td><td></td></tr><tr><td></td><td>15</td><td>RM-4,5,6 RECEPT</td><td>20 A</td><td>1</td><td>12</td><td>12</td><td>12</td><td>0.99</td><td></td><td>0.9</td><td>0</td><td></td><td></td><td>12</td><td>12</td><td>12</td><td>1</td><td>20 A</td><td>EF-2-1</td><td>16</td><td></td></tr><tr><td></td><td>17</td><td>HP-2-1</td><td>60 A</td><td>3</td><td>6</td><td>--</td><td>10</td><td>1.3</td><td></td><td></td><td></td><td></td><td></td><td>10</td><td>--</td><td>10</td><td>3</td><td>30 A</td><td>AH-2-1</td><td>18</td><td></td></tr><tr><td>--</td><td>19</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>6.48</td><td>2.63</td><td></td><td></td><td></td><td></td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>20</td><td>--</td></tr><tr><td>--</td><td>21</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td></td><td></td><td>6.48</td><td>2.63</td><td></td><td></td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>22</td><td>--</td></tr><tr><td>--</td><td>23</td><td>SERVICE RECEPT. ROOF</td><td>20 A</td><td>1</td><td>12</td><td>12</td><td>12</td><td>0.5</td><td></td><td></td><td></td><td></td><td>0.18</td><td>0.56</td><td>0.48</td><td>10</td><td>10</td><td>1</td><td>25 A</td><td>EF-2-1</td><td>24</td><td></td></tr><tr><td>--</td><td>25</td><td>MED WH-3</td><td>25 A</td><td>3</td><td>10</td><td>10</td><td>10</td><td>0.58</td><td>2</td><td>0</td><td></td><td></td><td></td><td>1.52</td><td>10</td><td>--</td><td>10</td><td>2</td><td>35 A</td><td>SS-3</td><td>26</td><td></td></tr><tr><td>--</td><td>27</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td></td><td></td><td>2</td><td>0</td><td></td><td></td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>28</td><td>--</td></tr><tr><td>--</td><td>29</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td></td><td></td><td></td><td></td><td>2</td><td></td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>30</td><td></td></tr><tr><td></td><td>31</td><td>LAB 14-FREEZER</td><td>20 A</td><td>1</td><td>12</td><td>12</td><td>12</td><td>0.59</td><td>1.2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>32</td><td></td></tr><tr><td>--</td><td>33</td><td>SPACE</td><td>--</td><td>1</td><td>--</td><td>--</td><td>--</td><td></td><td>--</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>34</td><td></td></tr><tr><td>--</td><td>35</td><td>SPACE</td><td>--</td><td>1</td><td>--</td><td>--</td><td>--</td><td></td><td>--</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>36</td><td></td></tr><tr><td>--</td><td>37</td><td>MLPA</td><td>200 A</td><td>3</td><td>3/0</td><td>3/0</td><td>6</td><td>1.52</td><td>18.61</td><td>--</td><td></td><td></td><td></td><td>--</td><td>--</td><td>--</td><td>1</td><td>--</td><td>SPACE</td><td></td><td>38</td><td>--</td></tr><tr><td>--</td><td>39</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td></td><td></td><td>23.24</td><td>--</td><td></td><td></td><td>--</td><td>--</td><td>--</td><td>1</td><td>--</td><td>SPACE</td><td></td><td>40</td><td>--</td></tr><tr><td>--</td><td>41</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td></td><td></td><td></td><td></td><td></td><td></td><td>--</td><td>--</td><td>--</td><td>1</td><td>--</td><td>SPACE</td><td></td><td>42</td><td>--</td></tr><tr><td colspan="8"></td><td colspan="2">Total Load:</td><td colspan="2">34.49 kVA</td><td colspan="2">41.67 kVA</td><td colspan="2">35.27 kVA</td><td colspan="18"></td></tr><tr><td colspan="8"></td><td colspan="2">Total Amps:</td><td colspan="2">287.38</td><td colspan="2">348.26</td><td colspan="2">294.89</td><td colspan="18"></td></tr></table>																																												K E Y	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	H	WIRE SIZE N G	VD %	A	B	C	VD %	WIRE SIZE N H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y		1	WALPACK	20 A	1	12	12	12	0.25	0.1	1.08				1.25	12	12	12	1	20 A	RM 2.3 RECEPT	2			3	LAUNDRY RECEPT	20 A	1	12	12	12	2.1		1.8	1.26			1.57	12	12	12	1	20 A	RM 10.11 RECEPT	4			5	DRYER	20 A	2								0.94	0.54	1.06	12	12	12	1	20 A	RECEPT (Exterior)	6		--	7	--	--	--	--	--	--	0.94	0.72					1.03	12	12	12	1	20 A	RM 12.13 RECEPT	8			9	OFFICE CORR RECEPT.	20 A	1	12	12	12	1.76			1.08	2.28		1.01	12	12	12	1	20 A	LAB 14-COUNTER RECEPT	10			11	RM 1,15,16 RECEPT	20 A	1	12	12	12	1.5					0.9	1.08	1.06	12	12	12	1	20 A	RM 8.9 RECEPT	12			13	CP-1	20 A	1				0.18	0.54					0.9	12	12	12	1	20 A	RM 8.12-CONTROLLED RECEPT	14			15	RM-4,5,6 RECEPT	20 A	1	12	12	12	0.99		0.9	0			12	12	12	1	20 A	EF-2-1	16			17	HP-2-1	60 A	3	6	--	10	1.3						10	--	10	3	30 A	AH-2-1	18		--	19	--	--	--	--	--	--	6.48	2.63					--	--	--	--	--	--	--	20	--	--	21	--	--	--	--	--	--			6.48	2.63			--	--	--	--	--	--	--	22	--	--	23	SERVICE RECEPT. ROOF	20 A	1	12	12	12	0.5					0.18	0.56	0.48	10	10	1	25 A	EF-2-1	24		--	25	MED WH-3	25 A	3	10	10	10	0.58	2	0				1.52	10	--	10	2	35 A	SS-3	26		--	27	--	--	--	--	--	--			2	0			--	--	--	--	--	--	--	28	--	--	29	--	--	--	--	--	--					2		--	--	--	--	--	--	--	30			31	LAB 14-FREEZER	20 A	1	12	12	12	0.59	1.2												32		--	33	SPACE	--	1	--	--	--		--												34		--	35	SPACE	--	1	--	--	--		--												36		--	37	MLPA	200 A	3	3/0	3/0	6	1.52	18.61	--				--	--	--	1	--	SPACE		38	--	--	39	--	--	--	--	--	--			23.24	--			--	--	--	1	--	SPACE		40	--	--	41	--	--	--	--	--	--							--	--	--	1	--	SPACE		42	--									Total Load:		34.49 kVA		41.67 kVA		35.27 kVA																												Total Amps:		287.38		348.26		294.89																			
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MOUNTING: SURFACE ENCLOSURE: NEMA PB 1 FED FROM: 225 A/3P @ 75KVA TR-3 LOCATION: ELECTRICAL 31														PANEL CL SINGLE TUB SOLID NEUTRAL GROUND BUS														MAIN: 200 A MCB VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 SCCR: 14 KA ISC: 10.00 KA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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colspan="8"></td><td colspan="2">Total Load:</td><td colspan="2">20.57 kVA</td><td colspan="2">19.63 kVA</td><td colspan="2">15.98 kVA</td><td colspan="18"></td></tr><tr><td colspan="8"></td><td colspan="2">Total Amps:</td><td colspan="2">176.05</td><td colspan="2">168.24</td><td colspan="2">133.20</td><td colspan="18"></td></tr></table>																																												K E Y	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	H	WIRE SIZE N G	VD %	A	B	C	VD %	WIRE SIZE N H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y		1	WALPACK	20 A	1	12	12	12	0.19	0.05	1.44					2.02	12	12	12	1	20 A	RM 14.15-RECEPT	2			3	CORR-5-ADOP-6-RECEPT	20 A	1	12	12	12	1.29			0.72	0.72			1.57	12	12	12	1	20 A	RM 6.7.8-RECEPT	4			5	RM 6.7.8-RECEPT	20 A	1	12	12	12	2					0.72	1.08	2.96	10	10	10	1	20 A	RM 9.10 RECEPT	6			7	RECEPT (Exterior)	20 A	1	12	12	12	1.49	0.54	0.72					0.65	12	12	12	1	20 A	RM 12.13.14-CORR-14 RECEPT	8	1		9	EF-3-1	20 A	1	12	12	12	0.66			0.37	1.62			2.17	12	12	12	1	20 A	RM 3.4.16 RECEPT	10			11	FATC	20 A	1	12	12	12	0.36					0.5	0.18	0.3	12	12	12	1	20 A	ROOF RECEPT	12			13	WH-2	35 A	3	8	--	10	0.76	3	1.08					2.22	10	10	10	1	20 A	RECEPT	14		--	15	--	--	--	--	--	--				3	0.18			0.27	12	12	12	1	20 A	RECEPT	16		--	17	--	--	--	--	--	--				3	0.4	0.23	12	12	12	1	20 A	DISHWASHER	18			19	EF-4-1	20 A	3	12	--	12	0.74	1.13	2.91					0.21	10	--	8	2	35 A	SS-5	20		--	21	--	--	--	--	--	--			1.13	2.91				--	--	--	--	--	--	--	22	--	--	23	--	--	--	--	--	--					1.13	8.97	0.83	8	3	1	3	90 A	AC-3-1	24			25	RM-18,20 RECEPT	20 A	1				0.72	8.97						--	--	--	--	--	--	--	26	--		27								8.97						--	--	--	--	--	--	--	28	--	--	29	SPACE	--	1	--	--	--		--	--				--	--	--	--	--	1	--	SPACE	30	--	--	31	SPACE	--	1	--	--	--		--	--				--	--	--	--	--	1	--	SPACE	32	--	--	33	SPACE	--	1	--	--	--		--	--				--	--	--	--	--	1	--	SPACE	34	--	--	35	SPACE	--	1	--	--	--		--	--				--	--	--	--	--	1	--	SPACE	36	--	--	37	SPACE	--	1	--	--	--		--	--				--	--	--	--	--	1	--	SPACE	38	--	--	39	SPACE	--	1	--	--	--		--	--				--	--	--	--	--	1	--	SPACE	40	--	--	41	SPACE	--	1	--	--	--		--	--				--	--	--	--	--	1	--	SPACE	42	--									Total Load:		20.57 kVA		19.63 kVA		15.98 kVA																												Total Amps:		176.05		168.24		133.20																			
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MOUNTING: SURFACE ENCLOSURE: NEMA PB 1 FED FROM: 200 A/3P @ MLP LOCATION: ELECT. 34										PANEL MLPA SINGLE TUB SOLID NEUTRAL GROUND BUS										MAIN: 200 A MCB VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 SCCR: 65 kA ISC UNKNOWN 0.00 kA												
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K E Y	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	H	WIRE SIZE N	G	VD %	A	B	C	VD %	G	WIRE SIZE N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y												
	1	OBSERVATION& CORR- LTG	20 A	1	12	12	12	2.12	0.71	0				12	12	12	1	20 A	OBSERVATION& CORR-EXT.LTG	2												
	3	OBSERVATION& CORR- LTG	20 A	1	12	12	12	1.03		0.71	0.67			1.66	12	12	12	1	20 A	OBSERVATION& CORR- LTG	4											
	5	OBSERVATION CM-AREA- LTG	20 A	1	12	12	12	0.46			0.35	0.72		0.83	12	12	12	1	20 A	OBSERVATION& CORR- LTG	6											
	7	EM-LTG	20 A	1	10	10	10	2.4	0.02	0.1				0.5	12	12	12	1	20 A	EXTERIOR WALPACK	8											
	9	OUTDOOR RECEPT	20 A	1	12	12	12	1.08		0.54	0.54			1	12	12	12	1	20 A	MED-OBSER-2-CORR-32-RECEPT	10											
	11	WALK IN FREEZER UTILITY	20 A	1	10	10	10	2.19			1.8	0.72		1.28	12	12	12	1	20 A	MED ISO-24-CORR-23-RECEPT	12											
	13	RM 23.27 RECEPT	20 A	1	12	12	12	0.55	0.9	0.72				1.27	12	12	12	1	20 A	MED ISO-26-CORR-25-RECEPT	14											
	15	EF-4-1	20 A	1	12	12	12	0.47		0.37	1.2			2.75	12	12	12	1	20 A	RM 40 REF	16											
--	17	WALK IN FREEZER- CONDENSER	20 A	2	12	--	12	2.81			2.05	0.54		0.45	12	12	12	1	20 A	HALL 20 RECEPT	18											
	19	--	--	--	--	--	--	--	2.05	0.54				0.99	12	12	12	1	20 A	MED-OBSER-1-CORR-20-RECEPT	20											
	21	FATC	20 A	1	12	12	12	0.28		0.5	0.54			0.12	12	12	12	1	20 A	RECEPT	22											
	23	RM 40 RECEPT	20 A	1	12	12	12	1.46			0.72	1.5		1.86	12	12	12	1	20 A	MDF RACK RECEPT	24											
25	AC-4-1		90 A	3	1	1	8	0.36	8.97	0.5				2.46	10	10	10	1	20 A	EF-4-2,3,4,5	26											
--	27	--	--	--	--	--	--	--	--	--	8.97	1.8		2.46	10	10	10	1	20 A	FREEZER LIGHTING	28											
--	29	--	--	--	--	--	--	--	--	--	8.97	1.5	1.04	1.2	--	12	2	30 A	WH-5	30												
31	SS-4		35 A	2	10	--	10	2.27	2.6	1.5				2.22	10	10	10	1	20 A	HOSE REEL	32	--										
--	33	--	--	--	--	--	--	--	--	--	2.6	4.8		0.92	10	6	6	1	50 A	WH-1	34											
--	35	SPARE	20 A	1	--	--	--	--	--	--			0	1.08	2.22	10	10	10	1	20 A	HOSE REEL RECEPT.	36										
--	37	SPACE	--	1	--	--	--	--	--	--		--	--	--	--	--	--	1	--	SPACE	38	--										
--	39	SPACE	--	1	--	--	--	--	--	--		--	--	--	--	--	--	1	--	SPACE	40	--										
--	41	SPACE	--	1	--	--	--	--	--	--		--	--	--	--	--	--	1	--	SPACE	42	--										
Total Load:									18.61 kVA	23.24 kVA	19.96 kVA																					
Total Amps:									155.12	195.39	168.03																					
LOAD SUMMARY																																
LOAD CLASSIFICATION			CONNECTED LOAD			DEMAND FACTOR			ESTIMATED DEMAND			TOTALS*																				
Lighting			3.286 kVA			125.00%			4.107 kVA			TOTAL CONNECTED LOAD:																		61.81 kVA		
Power			51.686 kVA			100.00%			51.686 kVA			TOTAL ESTIMATED DEMAND LOAD:																		62.633 kVA		
Receptacles			6.84 kVA			100.00%			6.84 kVA			TOTAL CONNECTED AMPS:																		171.57 A		
																		TOTAL ESTIMATED DEMAND AMPS:												173.9 A		
*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.																																
CIRCUIT KEY NOTES:																																
PANEL CH																																
MOUNTING: SURFACE ENCLOSURE: NEMA PB 1 FED FROM: 125 A/3P @ MDMB LOCATION: ELECTRICAL 31										PANEL CH SINGLE TUB SOLID NEUTRAL GROUND BUS										MAIN: 125 A MCB VOLTS: 480/277 Wye PHASE: 3 WIRE: 4 SCCR: 65 kA ISC UNKNOWN 0.00 kA												
NOTES:																																
K E Y	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	H	WIRE SIZE N	G	VD %	A	B	C	VD %	G	WIRE SIZE N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y												
	1	CAT & OTHER SOUTH BLDG LTG.	20 A	1	12	12	12	1.12	1.43	0.24				12	12	12	1	20 A	EM-LTG	2												
	3	CAT & OTHER SOUTH BLDG LTG.	20 A	1	12	12	12	0.87			1.08	0						1	20 A	EXIT LIGHT	4											
	5	75KVA TR-3	125 A	3	1	1	6	0.12			20.57										6											
--	7	--	--	--	--	--	--	--	19.63												8											
--	9	--	--	--	--	--	--	--		15.98											10											
	11																				12											
	13																				14											
	15																				16											
	17																				18											
	19																				20											
	21																				22											
	23																				24											
	25																				26											
	27																				28											
	29																				30											
	31																				32											
	33																				34											
	35																				36											
	37																				38											
	39																				40											
	41																				42											
Total Load:									21.30 kVA	17.06 kVA	20.57 kVA																					
Total Amps:									78.83	61.60	76.19																					
LOAD SUMMARY																																
LOAD CLASSIFICATION			CONNECTED LOAD			DEMAND FACTOR			ESTIMATED DEMAND			TOTALS*																				
Lighting			2.797 kVA			125.00%			3.496 kVA			TOTAL CONNECTED LOAD:																		58.92 kVA		
Power			46.007 kVA			100.00%			46.007 kVA			TOTAL ESTIMATED DEMAND LOAD:																		59.563 kVA		
Receptacles			10.12 kVA			99.41%			10.06 kVA			TOTAL CONNECTED AMPS:																		70.87 A		
																		TOTAL ESTIMATED DEMAND AMPS:												71.6 A		
*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.																																
CIRCUIT KEY NOTES:																																

PANEL DLM1																								
MOUNTING: SURFACE ENCLOSURE: NEMA PB 1 FED FROM: 150 A/3P @ DP-SU LOCATION:										SINGLE TUB SOLID NEUTRAL GROUND BUS										MAIN: 150 A MCB VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 SCCR: 14 kA ISC: 10.00 kA				
NOTES:																								
KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	H	WIRE SIZE N	G	VD %	A	B	C	VD %	WIRE SIZE N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY					
	1	EXIT-LTG	20 A	1	12	12	12		0	0.31			0.13	12	12	1	20 A	CM-AREA LTG	2					
	3	DOG POD-11-LTG	20 A	1	12	12	12	0.81		0.54	1.37		2.33	10	10	1	20 A	DOG POD-2-LTG	4					
	5	DOG POD1-LTG	20 A	1	10	10	10	2.31				1.29	0.54	1.01	12	12	1	20 A	DOG POD-11-LTG	6				
	7	WALPACK	20 A	1	12	12	12	1.06	0.23	--			--	--	--	1	--	SPACE	8	--				
	9	EXT-RECEPT	20 A	1	12	12	12	0.45		0.18	0.72		1.06	12	12	1	20 A	DOG POD 12 RECEPT	10					
	11	HOSE REEL RECEPTS	20 A	1	12	12	12	1.79			0.72	0.9	0.87	12	12	1	20 A	DOG POD 12-RECEPT	12					
	13	EF-5-1 ROOF	20 A	1	12	12	12	0.22	0.37	0.18			0.22	12	12	1	20 A	SERVICE RECEPT. ROOF	14					
	15	AC-S-1 ROOF	90 A	3	1	4	4	0.48		8.97	0.5		0.28	12	12	1	20 A	FATC	16					
--	17	--	--	--	--	--	--	--			8.97	1.5	0.41	12	--	12	2	30 A	WH-5	18				
--	19	--	--	--	--	--	--	--	8.97	1.5			--	--	--	--	--	--	20	--				
	21	EF-5-2 TO EF-5-5	30 A	1	10	10	10	--		0.5	0.72		1.25	12	12	1	20 A	HOSE REEL RECEPT.	22					
	23	IDF RECEPT	20 A	1								0.72	0.07	2.04	1	1	1	20 A	EM LIGHTING	24				
--	25	SPARE	20 A	1	--	--	--		0	2.4			0.39	10	--	10	2	30 A	WH-1	26				
--	27	SPARE	20 A	1	--	--	--				0	2.4		--	--	--	--	--	28	--				
--	29	SPARE	20 A	1	--	--	--					0	--	--	--	--	1	--	SPACE	30	--			
--	31	SPACE	--	1	--	--	--	--	--	--		--	--	--	--	1	--	SPACE	32	--				
--	33	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	34	--				
--	35	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	36	--				
--	37	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	38	--				
--	39	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	40	--				
--	41	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	42	--				
Total Load:									13.96 kVA		15.90 kVA		14.71 kVA											
Total Amps:									116.32		133.46		123.50											
LOAD SUMMARY																								
LOAD CLASSIFICATION			CONNECTED LOAD			DEMAND FACTOR			ESTIMATED DEMAND			TOTALS*												
Lighting			3.263 kVA			125.00%			4.078 kVA															
Power			36.442 kVA			100.00%			36.442 kVA			TOTAL CONNECTED LOAD: 44.56 kVA												
Receptacles			4.86 kVA			100.00%			4.86 kVA			TOTAL ESTIMATED DEMAND LOAD: 45.38 kVA												
												TOTAL CONNECTED AMPS: 123.70 A												
												TOTAL ESTIMATED DEMAND AMPS: 126 A												
*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.																								
CIRCUIT KEY NOTES:																								

PANEL DLM2																								
MOUNTING: SURFACE ENCLOSURE: NEMA PB 1 FED FROM: 150 A/3P @ DP-SU LOCATION:										SINGLE TUB SOLID NEUTRAL GROUND BUS										MAIN: 150 A MCB VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 SCCR: 14 kA ISC: 10.00 kA				
NOTES:																								
KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	H	WIRE SIZE N	G	VD %	A	B	C	VD %	WIRE SIZE N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY					
	1	RECEPT. (DOG POD 1)	20 A	1	12	12	10.3	0.54	0.54			0.88	12	12	1	20 A	RECEPT. (CORRIDOR)	2						
	3	RECEPT. (GET ACQUAINTED)	20 A	1	12	12	12	0.48		0.36	0.9		0.82	12	12	1	20 A	RECEPT. (CLEANING EQUIPMENT)	4					
	5	RECEPT. (EXT.)	20 A	1	12	12	12	0.47				0.18	0	12	12	1	20 A	LIGHTING	6					
	7	LIGHTING (DOG POD 1 WEST)	20 A	1	10	10	10	2.3	0.98	1.05		2.51	10	10	10	1	20 A	LIGHTING	8					
	9	HOSE REEL RECEPT.	20 A	1	12	12	12	1.27		0.72	0.72		1.77	12	12	1	20 A	HOSE REEL- RECEPT	10					
	11	LIGHTING	20 A	1	12	12	12	0.13			0.14	0.2	0.71	12	12	1	20 A	LIGHTING	12					
	13	FACP	20 A	1	12	12	12	0.29	0.5	0.54		0.63	12	12	1	20 A	ELECT RM RECEPT	14						
	15	LIGHTING	20 A	1	10	10	10	2.63		0.87	1.18		1.69	12	12	1	20 A	EF-6-1 ROOF	16					
	17	ROOF SERVICE RECEPT	20 A	1	12	12	12	0.22			0.18	1.5	0.32	12	--	2	30 A	WH-5	18					
	19	AC-6-1 ROOF	90 A	3	2	8	8	0.58	8.75	1.5		--	--	--	--	--	--	--	20	--				
--	21	--	--	--	--	--	--	--	--	8.75	0		--	--	--	1	20 A	SPARE	22	--				
--	23	--	--	--	--	--	--	--	--		8.75	2.11	2.42	6	6	6	1	30 A	EF-6-2 TO EF-6-5	24				
--	25	Wh-1	30 A	2	10	--	10	0.39	2.4	0.72			--	--	--	1	20 A	Receptacles	26					
--	27	--	--	--	--	--	--	--		2.4	0		--	--	--	1	20 A	SPARE	28					
--	29	--	--	--	--	--	--	--				0	--	--	--	1	20 A	SPARE	30					
--	31	SPARE	20 A	1	--	--	--		0	0		--	--	--	--	1	20 A	SPARE	32					
--	33	SPARE	20 A	1	--	--	--			0	0		--	--	--	1	20 A	SPARE	34					
--	35	SPARE	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	36					
--	37	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	38					
--	39	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	40					
--	41	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	42					
Total Load:									17.52 kVA		15.90 kVA		13.07 kVA											
Total Amps:									149.66		136.10		108.90											
LOAD SUMMARY																								
LOAD CLASSIFICATION			CONNECTED LOAD			DEMAND FACTOR			ESTIMATED DEMAND			TOTALS*												
Lighting			3.238 kVA			125.00%			4.047 kVA															
Power			38.571 kVA			100.00%			38.571 kVA			TOTAL CONNECTED LOAD: 46.49 kVA												
Receptacles			4.68 kVA			100.00%			4.68 kVA			TOTAL ESTIMATED DEMAND LOAD: 47.298 kVA												
												TOTAL CONNECTED AMPS: 129.04 A												
												TOTAL ESTIMATED DEMAND AMPS: 131.3 A												
*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.																								
CIRCUIT KEY NOTES:																								

MOUNTING: SURFACE ENCLOSURE: NEMA PB 1 FED FROM: 150 A/3P @ DP-SU LOCATION:										PANEL DLM3 SINGLE TUB SOLID NEUTRAL GROUND BUS										MAIN: 150 A MCB VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 SCCR: 14 kA ISC: 10.00 kA									
NOTES:																													
K E Y	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H N G	VD %	A	B	C	VD %	WIRE SIZE G N H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y													
	1	LIGHTING	20 A	1	10 10 10	2.64	0.87	0.9		1.38	12 12 12	1	20 A	RECEPT. (CORRIDOR)	2														
	3	RECEPT. (GET ACQUAINTED)	20 A	1	12 12 12	0.99		0.72	0.72		1.16	12 12 12	1	20 A	RECEPT. (CLEANING EQUIPMENT)	4													
	5	RECEPT. (EXTERIOR)	20 A	1	12 12 12	0.48			0.18	0.9	1.12	12 12 12	1	20 A	ELECT RM RECEPT	6													
	7	LIGHTING (DOG POD 1 WEST)	20 A	1	10 10 10	2.39	0.98	0.99			2.22	10 10 10	1	20 A	LIGHTING (DOG POD 2 WEST)	8													
	9	WH-1	50 A	1	6 6 6	0.58		4.8	0.04		0.07	12 12 12	1	20 A	LIGHTING (DOG POD 2 EAST)	10													
	11	LIGHTING (CORRIDOR)	20 A	1	12 12 12	0.13			0.14	0.2	0.78	12 12 12	1	20 A	LIGHTING (EXTERIOR)	12													
	13	LIGHTING (EMERGENCY)	20 A	1	12 12 12		0	0.72			1.79	12 12 12	1	20 A	HOSE REEL-RECEPT	14													
	15	EF-7-2 TO EF-7-5	30 A	1	6 6 6	2.48		2.11	8.97		0.68	8 8 2	3	90 A	AC-7-1 ROOF	16													
	17	RECEPT. (DOG POD 1)	20 A	1	12 12 12	1.92			0.9	8.97	--	--	--	--	--	18	--												
	19	HOSE REEL - RECEPT	20 A	1	12 12 12	1.27	0.72	8.97			--	--	--	--	--	20	--												
	21	EF-7-1 ROOF	20 A	1	12 12 12	0.39		0.28	0.5		0.29	12 12 12	1	20 A	FATC	22													
	23	WH-1	30 A	2	12 -- 12	0.33			1.5	0.72			1	20 A	IDF RECEPT	24													
--	25	--	--	--	-- --	--	1.5				--	--	--	--	--	26													
--	27	SPARE	20 A	1	-- -- --	--		0	0		--	--	1	20 A	SPARE	28	--												
--	29	SPARE	20 A	1	-- -- --	--			0	0.18	0.22	12 12 12	1	20 A	SERVICE RECEPT-ROOF	30													
--	31	SPARE	20 A	1	-- -- --	--	0	0			--	--	1	20 A	SPARE	32	--												
--	33	SPARE	20 A	1	-- -- --	--		0	0		--	--	1	20 A	SPARE	34	--												
--	35	SPARE	20 A	1	-- -- --	--			0	0	--	--	1	20 A	SPARE	36	--												
--	37	SPACE	-- 1	--	-- --	--	--	--			--	--	1	--	SPACE	38	--												
--	39	SPACE	-- 1	--	-- --	--	--	--			--	--	1	--	SPACE	40	--												
--	41	SPACE	-- 1	--	-- --	--	--	--			--	--	1	--	SPACE	42	--												
Total Load:							15.64 kVA	18.14 kVA	13.69 kVA																				
Total Amps:							132.83	153.68	114.10																				
LOAD SUMMARY																													
LOAD CLASSIFICATION			CONNECTED LOAD			DEMAND FACTOR			ESTIMATED DEMAND			TOTALS*																	
Lighting			3.216 kVA			125.00%			4.02 kVA																				
Power			38.318 kVA			100.00%			38.318 kVA			TOTAL CONNECTED LOAD: 47.47 kVA																	
Receptacles			5.94 kVA			100.00%			5.94 kVA			TOTAL ESTIMATED DEMAND LOAD: 48.276 kVA																	
												TOTAL CONNECTED AMPS: 131.77 A																	
												TOTAL ESTIMATED DEMAND AMPS: 134 A																	
*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.																													
CIRCUIT KEY NOTES:																													

MOUNTING: SURFACE ENCLOSURE: NEMA PB 1 FED FROM: 100 A/3P @ DB-SH LOCATION: MECHANICAL/ ELECTRICAL 8										PANEL SH SINGLE TUB SOLID NEUTRAL GROUND BUS										MAIN: 100 A MCB VOLTS: 480/277 Wye PHASE: 3 WIRE: 4 SCCR: 30 kA ISC: 20.00 kA									
NOTES:																													
KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H N G	VD %	A	B	C	VD %	WIRE SIZE G N H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY													
	1	DISASTER STORAGE LTG.	20 A	1	12 12 12	0.69	0.85	0.91		0.54	12 12 12	1	20 A	GENERAL STORAGE LTG	2														
	3	EAST BLDG LTG.	20 A	1	12 12 12	0.74		0.89	1.15		0.84	12 12 12	1	20 A	CENTRAL LTG	4													
	5	EXP WALPACK	20 A	1	12 12 12	0.29				0.2	0.91	2.06	6 6 6	1	20 A	EAST PARKING LOT POLE LIGHT	6												
--	7	EAST PARKINGS& CENTRAL POLE...	20 A	1	6 6 6	2.53	1.16	--			--	--	--	1	--	SPACE	8 --												
--	9	SPACE	--	1	--	--		--	--		--	--	--	1	--	SPACE	10 --												
--	11	SPACE	--	1	--	--		--	--		--	--	--	1	--	SPACE	12 --												
--	13	SPACE	--	1	--	--		--	--		--	--	--	1	--	SPACE	14 --												
--	15	SPACE	--	1	--	--		--	--		--	--	--	1	--	SPACE	16 --												
--	17	SPACE	--	1	--	--		--	--		--	--	--	1	--	SPACE	18 --												
--	19	SPACE	--	1	--	--		--	--		--	--	--	1	--	SPACE	20 --												
--	21	SPACE	--	1	--	--		--	--		--	--	--	1	--	SPACE	22 --												
--	23	SPACE	--	1	--	--		--	--		--	--	--	1	--	SPACE	24 --												
--	25	SPACE	--	1	--	--		--	--		--	--	--	1	--	SPACE	26 --												
--	27	SPACE	--	1	--	--		--	--		--	--	--	1	--	SPACE	28 --												
--	29	SPACE	--	1	--	--		--	--		--	--	--	1	--	SPACE	30 --												
--	31	SPACE	--	1	--	--		--	--		--	--	--	1	--	SPACE	32 --												
--	33	SPACE	--	1	--	--		--	--		--	--	--	1	--	SPACE	34 --												
--	35	SPACE	--	1	--	--		--	--		--	--	--	1	--	SPACE	36 --												
--	37	SPACE	--	1	--	--		--	--		--	--	--	1	--	SPACE	38 --												
--	39	SPACE	--	1	--	--		--	--		--	--	--	1	--	SPACE	40 --												
--	41	SPACE	--	1	--	--		--	--		--	--	--	1	--	SPACE	42 --												
Total Load:							2.93 kVA	2.04 kVA	1.10 kVA																				
Total Amps:							11.09	7.90	3.98																				
LOAD SUMMARY																													
LOAD CLASSIFICATION			CONNECTED LOAD				DEMAND FACTOR				ESTIMATED DEMAND				TOTALS*														
Lighting			6.072 kVA				125.00%				7.59 kVA																		
Other			0 kVA				0.00%				0 kVA				TOTAL CONNECTED LOAD: 6.07 kVA														
															TOTAL ESTIMATED DEMAND LOAD: 7.59 kVA														
															TOTAL CONNECTED AMPS: 7.30 A														
															TOTAL ESTIMATED DEMAND AMPS: 9.1 A														
*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.																													
CIRCUIT KEY NOTES:																													

MOUNTING: SURFACE ENCLOSURE: NEMA PB 1 FED FROM: 150 A/3P @ DP-SU LOCATION: MECHANICAL/ ELECTRICAL 8														PANEL SLP SINGLE TUB SOLID NEUTRAL GROUND BUS														MAIN: 225 A MCB VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 SCCR: 30 KA ISC: 20.00 kA																																			
NOTES:																																																															
K E Y	CKT NO.	LOAD DESCRIPTION										OCPD AMPS		P	WIRE SIZE H N G		VD %	A		B		C		VD %	WIRE SIZE G N H		P	OCPD AMPS		LOAD DESCRIPTION										CKT NO.	K E Y																						
	1	RECEPT. (Disaster Storage)										20 A		1	12 12 12		2.44	0.9		0.54				1.44		12 12 12		1	20 A		RECEPT. (GEN. STORAGE)										2																						
	3	ELEC. WAREHOUSE-RECEPT										20 A		1	12 12 12		1.05			0.9		1.26		1.49		12 12 12		1	20 A		RECEPT. (MECH/ELECTRICAL)										4																						
	5	RM-25-MW										20 A		1								1.2		0.72		0.86		12 12 12		1	20 A		RECEPT. (CORRIDOR)										6																				
	7	RECEPT. (FRIDGE)										20 A		1	12 12 12		1.52	1.2		0.72				0.87		12 12 12		1	20 A		RECEPT. (BEHAVIOR)										8																						
	9	RECEPT. (HALL)										20 A		1	12 12 12		1.78			0.9		1.44		1.21		12 12 12		1	20 A		RECEPT. (DISHWAHER)										10																						
	11	RECEPT. (FRIDGE 2)										20 A		1	10 10 10		1.87					1.2		0.9		1.56		12 12 12		1	20 A		RECEPT. (GROOMING)										12																				
	13	RECEPT. (DOG/CAT HOLDING)										20 A		1	12 12 12		1.18	0.72		0.72				1.97		12 12 12		1	20 A		RECEPT. (EXTERIOR)										14																						
	15	RECEPT. (BREAKROOM)										20 A		1	10 10 10		2.46			1.74		0.72		1.68		12 12 12		1	20 A		RECEPT. (ACO OFFICE)										16																						
	17	RECEPT. (ACO OFFICE 2)										20 A		1	12 12 12		0.75					0.36		0.9		1.98		12 12 12		1	20 A		RECEPT. (BATHROOM)										18																				
	19	RECEPT. (MICROWAVE 2)										20 A		1	12 12 12		2.69	1.2		7.46				0.37		8 1 1		3	100 A		HP-9-1										20																						
	21	AH-9-1										30 A		3	10 -- 10		0.9			2.62		7.46				-- -- --		--		--		--										22	--																				
--	23	--										--		--	-- -- --		--					2.62		7.46		-- -- --		--		--		--										24	--																				
--	25	--										--		--	-- -- --		--	2.62		0.13				0.33		12 12 12		1	15 A		EF-9-1										26																						
	27	EF-9-4										20 A		1	12 12 12		0.55			0.25		2.91		0.24		10 10 4		2	60 A		SS-6										28																						
	29	WH-5										15 A		3	12 -- 12		0.5					1		2.91		-- -- --		--		--										30	--																						
--	31	--										--		--	-- -- --		--	1		0.36								1		20 A		IDF CONV RECEPT										32																					
--	33	--										--		--	-- -- --		--			1		1.5						1		20 A		IDF RECEPT										34																					
	35	--										--		--	-- -- --		--							1.5				1		20 A		IDF RECEPT										36																					
	37	SLP-1										20 A		3				3.68		--						-- -- --		1		--		SPACE										38	--																				
--	39	--										--		--	-- -- --		--			3.68		--				3.68		--		1		--		SPACE										40	--																		
--	41	--										--		--	-- -- --		--									-- -- --		1		--		SPACE										42	--																				
										Total Load:												21.24 kVA		26.38 kVA		24.45 kVA																																					
										Total Amps:												176.98		223.90		207.82																																					
LOAD SUMMARY																																																															
LOAD CLASSIFICATION														CONNECTED LOAD										DEMAND FACTOR										ESTIMATED DEMAND										TOTALS*																			
Kitchen Equip.														3.84 kVA										96.88%										3.72 kVA																													
Lighting														0 kVA										0.00%										0 kVA										TOTAL CONNECTED LOAD:										72.06 kVA									
Power														55.858 kVA										100.00%										55.858 kVA										TOTAL ESTIMATED DEMAND LOAD:										70.758 kVA									
Receptacles														12.36 kVA										90.45%										11.18 kVA										TOTAL CONNECTED AMPS:										200.01 A									
																																												TOTAL ESTIMATED DEMAND AMPS:										196.4 A									
*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCONCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.																																																															
CIRCUIT KEY NOTES:																																																															

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DISTRIBUTION PANEL DP-EVC

ENCLOSURE: NEMA PB 1
FED FROM: 600 A/3P @ 150KVA TR-EVC
LOCATION: MECHANICAL/ ELECTRICAL 147

SOLID NEUTRAL
GROUND BUS

MAIN: 600 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 42 kA
ISC: 30.00 kA

NOTES:

CKT	LOAD DESCRIPTION	LOAD	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT KEY
1	EVC-1	144 kVA	3	400 A	350 A			4#500 & 1#3 EGC IN 3" C.	
2	EVC-2	48 kVA	3	250 A	225 A			(5) SETS OF 4#500 & 1#500 EGC EACH IN 3" C.	
3	EVC-3	48 kVA	3	250 A	225 A			(3) SETS OF 4#600 & 1#400 EGC EACH IN 3 1/2" C.	
4	SPACE	--	1	--	--	--	--	--	--
5	SPACE	--	1	--	--	--	--	--	--
6	SPACE	--	1	--	--	--	--	--	--
7	SPACE	--	1	--	--	--	--	--	--
8	SPACE	--	1	--	--	--	--	--	--
9	SPACE	--	1	--	--	--	--	--	--
10	SPACE	--	1	--	--	--	--	--	--
11	SPACE	--	1	--	--	--	--	--	--
12	SPACE	--	1	--	--	--	--	--	--

LOAD SUMMARY (INCLUDES ALL TUBS IN THIS PANEL)

LOAD CLASSIFICATION
EVCS

CONNECTED LOAD
240 kVA

DEMAND FACTOR
125.00%

ESTIMATED DEMAND
300 kVA

TOTALS*

TOTAL CONNECTED LOAD:

240.00 kVA

TOTAL ESTIMATED DEMAND LOAD:

300 kVA

TOTAL CONNECTED AMPS:

666.17 A

TOTAL ESTIMATED DEMAND AMPS:

832.7 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL EVC-1

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 350 A/3P @ DP-EVC
LOCATION: MECHANICAL/ ELECTRICAL 147

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 350 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 42 kA
ISC: 30.00 kA

NOTES:

K E Y	CKT NO.	LOAD DESCRIPTION	OC PD AMPS	P	H	WIRE SIZE N G	VD %	A	B	C	VD %	WIRE SIZE G N H	P	OC PD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y		
1	EVCS-1	75 A	2	600	--	4/0	2.98	6	6		2.98	2/0	--	4/0	2	75 A	EVCS-7	2	
--	3	--	--	--	--	--	--		6	6	--	--	--	--	--	--	4	--	
5	EVCS-2	75 A	2	600	--	4/0	2.99			6	6	2.99	2/0	--	4/0	2	75 A	EVCS-8	6
--	7	--	--	--	--	--	--	6	6			--	--	--	--	--	--	8	--
9	EVCS-3	75 A	2	4/0	--	2/0	2.75		6	6		2.8	3/0	--	250	2	75 A	EVCS-11	10
--	11	--	--	--	--	--	--			6	6	--	--	--	--	--	--	12	--
13	EVCS-4	75 A	2	4/0	--	2/0	2.76	6	6			2.82	3/0	--	250	2	75 A	EVCS-12	14
--	15	--	--	--	--	--	--		6	6		--	--	--	--	--	--	16	--
17	EVCS-5	75 A	2	4/0	--	2/0	2.79			6	6	2.84	3/0	--	250	2	75 A	EVCS-9	18
--	19	--	--	--	--	--	--	6	6			--	--	--	--	--	--	20	--
21	EVCS-6	75 A	2	4/0	--	2/0	2.8		6	6		2.85	3/0	--	250	2	75 A	EVCS-10	22
--	23	--	--	--	--	--	--				6	6	--	--	--	--	--	24	--
--	25	SPACE	--	1	--	--	--	--	0			--	--	--	1	20 A	SPARE	26	--
--	27	SPACE	--	1	--	--	--		--	0		--	--	--	1	20 A	SPARE	28	--
--	29	SPACE	--	1	--	--	--			--	0	--	--	--	1	20 A	SPARE	30	--
--	31	SPACE	--	1	--	--	--	--	0			--	--	--	1	20 A	SPARE	32	--
--	33	SPACE	--	1	--	--	--		--	0		--	--	--	1	20 A	SPARE	34	--
--	35	SPACE	--	1	--	--	--			--	0	--	--	--	1	20 A	SPARE	36	--
--	37	SPACE	--	1	--	--	--	--	0			--	--	--	1	20 A	SPARE	38	--
--	39	SPACE	--	1	--	--	--		--	0		--	--	--	1	20 A	SPARE	40	--
--	41	SPACE	--	1	--	--	--			--	0	--	--	--	1	20 A	SPARE	42	--

LOAD SUMMARY

LOAD CLASSIFICATION
EVCS

CONNECTED LOAD
144 kVA

DEMAND FACTOR
125.00%

ESTIMATED DEMAND
180 kVA

TOTALS*

TOTAL CONNECTED LOAD:

144.00 kVA

TOTAL ESTIMATED DEMAND LOAD:

180 kVA

TOTAL CONNECTED AMPS:

399.70 A

TOTAL ESTIMATED DEMAND AMPS:

499.6 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL EVC-2

MOUNTING: SURFACE
ENCLOSURE: NEMA 3R
FED FROM: 225 A/3P @ DP-EVC
LOCATION:

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 225 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

K E Y	CKT NO.	LOAD DESCRIPTION	OC PD AMPS	P	H	WIRE SIZE N G	VD %	A	B	C	VD %	WIRE SIZE G N H	P	OC PD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y		
1	EVC11	40 A	2	8	--	10	2.44	6	6		2.06	8	--	6	2	40 A	EVC13	4	
--	3	--	--	--	--	--	--		6	6	--	--	--	--	--	--	--	6	
5	EVC12	40 A	2	8	--	10	2.71			6	6	2.26	8	--	6	2	40 A	EVC14	8
--	7	--	--	--	--	--	--	6	6		--	--	--	--	--	--	--	10	--
--	9	SPARE	20 A	1	--	--	--		0	0		--	--	--	1	20 A	SPARE	12	--
--	11	SPARE	20 A	1	--	--	--					--	--	--	1	20 A	SPARE	14	--
--	13	SPARE	20 A	1	--	--	--	0	0			--	--	--	1	20 A	SPARE	16	--
--	15	SPARE	20 A	1	--	--	--		0	0		--	--	--	1	20 A	SPARE	18	--
--	17	SPARE	20 A	1	--	--	--			0	0	--	--	--	1	20 A	SPARE	20	--
--	19	SPARE	20 A	1	--	--	--	0	0			--	--	--	1	20 A	SPARE	22	--
--	21	SPARE	20 A	1	--	--	--		0	0		--	--	--	1	20 A	SPARE	24	--
--	23	SPARE	20 A	1	--	--	--			0	0	--	--	--	1	20 A	SPARE	26	--
--	25	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	28	--
--	27	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	30	--
--	29	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	32	--
--	31	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	34	--
--	33	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	36	--
--	35	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	38	--
--	37	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	40	--
--	39	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	42	--
--	41	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	44	--

LOAD SUMMARY

LOAD CLASSIFICATION
EVCS

CONNECTED LOAD
48 kVA

DEMAND FACTOR
125.00%

ESTIMATED DEMAND
60 kVA

TOTALS*

TOTAL CONNECTED LOAD:

48.00 kVA

TOTAL ESTIMATED DEMAND LOAD:

60 kVA

TOTAL CONNECTED AMPS:

133.23 A

TOTAL ESTIMATED DEMAND AMPS:

166.5 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL EVC-3

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 225 A/3P @ DP-EVC
LOCATION: MECHANICAL/ ELECTRICAL 8

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 225 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 14 kA
ISC: 10.00 kA

NOTES:

K E Y	CKT NO.	LOAD DESCRIPTION	OC PD AMPS	P	H	WIRE SIZE N G	VD %	A	B	C	VD %	WIRE SIZE G N H	P	OC PD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y		
1	EVCS-17	40 A	2	400	--	400	2.84	6	6		2.82	400	--	400	2	40 A	EVCS-19	2	
--	3	--	--	--	--	--	--		6	6	--	--	--	--	--	--	--	4	--
5	EVCS-18	40 A	2	400	--	400	2.83			6	6	2.81	400	--	400	2	40 A	EVCS-20	6
--	7	--	--	--	--	--	--	6	6			--	--	--	--	--	--	8	--
9		--	--	--	--	--	--		0			--	--	--	1	20 A	SPARE	10	--
--	11	--	--	--	--	--	--			0		--	--	--	1	20 A	SPARE	12	--
--	13	SPARE	20 A	1	--	--	--	0	0			--	--	--	1	20 A	SPARE	14	--
--	15	SPARE	20 A	1	--	--	--		0	0		--	--	--	1	20 A	SPARE	16	--
--	17	SPARE	20 A	1	--	--	--			0	0	--	--	--	1	20 A	SPARE	18	--
--	19	SPARE	20 A	1	--	--	--	0	0			--	--	--	1	20 A	SPARE	20	--
--	21	SPARE	20 A	1	--	--	--		0	0		--	--	--	1	20 A	SPARE	22	--
--	23	SPARE	20 A	1	--	--	--			0	0	--	--	--	1	20 A	SPARE	24	--
--	25	SPACE	20 A	1	--	--	--	0	0			--	--	--	1	20 A	SPARE	26	--
--	27	SPACE	20 A	1	--	--	--		0	0		--	--	--	1	20 A	SPARE	28	--
--	29	SPACE	20 A	1	--	--	--			0	0	--	--	--	1	20 A	SPARE	30	--
--	31	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	32	--
--	33	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	34	--
--	35	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	36	--
--	37	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	38	--
--	39	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	40	--
--	41	SPACE	--	1	--	--	--	--	--	--	--	--	--	--	1	--	SPACE	42	--

LOAD SUMMARY

LOAD CLASSIFICATION
EVCS

CONNECTED LOAD
48 kVA

DEMAND FACTOR
125.00%

ESTIMATED DEMAND
60 kVA

TOTALS*

TOTAL CONNECTED LOAD:

48.00 kVA

TOTAL ESTIMATED DEMAND LOAD:

60 kVA

TOTAL CONNECTED AMPS:

133.23 A

TOTAL ESTIMATED DEMAND AMPS:

166.5 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

IMEG

901 VIA RIEMONTE
SUITE 400
ONTARIO, CA 91764
P: 909-477-8915 F: 909-477-6916

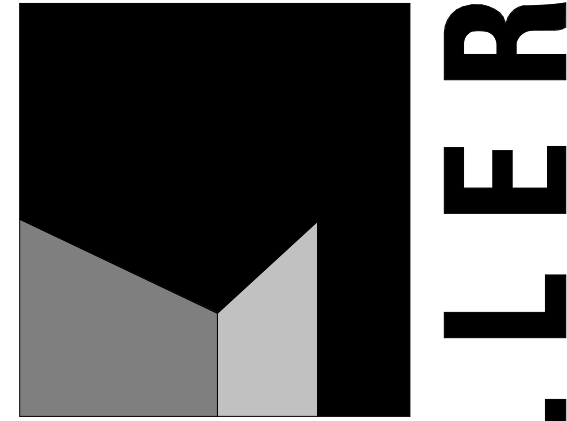
www.imegcorp.com

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0 1 2 3

REF. SCALE IN INCHES PROJECT #2207569.00

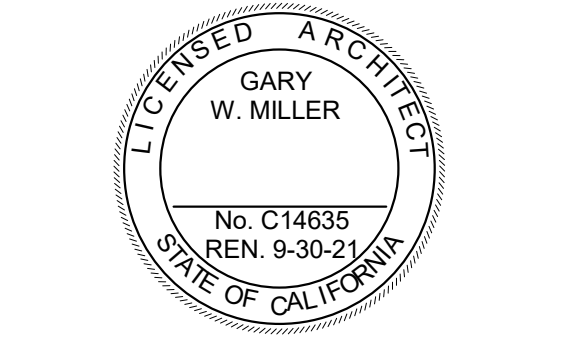
PRELIMINARY
NOT FOR
CONSTRUCTION



architecture
interiors
planning



1177 Idaho Street, Suite 200
Redlands, CA 92374
Phone: 909-335-7400
Fax: 909-335-7299
info@miller-aip.com



owner approval

initials	date	phase

revisions/addenda

#	Date	Comment

ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number: 1227

Drawn By: Author

Checked By: PS

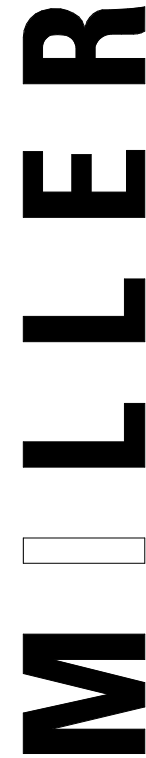
Issue Date: 05/17/24

sheet name

ELECTRICAL EVC
SCHEDULES

sheet number

E-111



1



200
4
0
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#	Date	Comment
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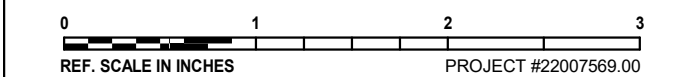
SAN BERNARDINO COUNTY

Project Number:	1227
Drawn By:	Author
Checked By:	PS
Issue Date:	05/17/24

DE
E
OG

Sheets

**PRELIMINARY
NOT FOR
CONSTRUCTION**



State of California

Indoor Lighting

CERTIFICATE OF COMPLIANCE

CA Building Energy Efficiency Standards - 2022 NAEI/Interim Compliance

Report Version: 2022-11-09
Schematic Version: rev. 2/23/2023

Compliance ID: Eneqgphs-9995-0424-1096
Report Generated: 2024-04-11 06:58:37

Page 1 of 101

4/29/2024

This document is used to demonstrate compliance with requirements in 110.8, 110.12(c), 110.3, 130.1, 140.8 and 142.00(d) for indoor lighting spaces using the prescriptive path for residential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b) for indoor lighting spaces using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: SAN BERNARDINO COUNTY ANIMAL SHELTER

Report Page: 1
Date Prepared: 4/29/2024

A. GENERAL INFORMATION

01 Project Location (City): BLOOMINGTON

04 Total Conditioned Floor Area (ft²): 67,091

02 Climate Zone: 10

05 Total Unconditioned Floor Area (ft²): 0

03 Occupancy Types Within Project (Select all that apply):

06 # of Stories (Hatchtable Above Grade): 1

• Convention Center • Healthcare Facility • Office • Support Annex • Warehouse • All Other Occupancies

B. PROJECT SCOPE

Scope of Work

Conditioned Spaces

Unconditioned Spaces

01 My Project Consists of (check all that apply):

02 Calculation Method

03 Area (ft²)

04 Calculation Method

05 Area (ft²)

06 New Lighting System

67091

07

08

09

01 New Lighting System - Parking Garage

02

03

04

05

Total Area of Work (ft²)

67091

0

0

0

CA Building Energy Efficiency Standards - 2022 NAEI/Interim Compliance

Report Version: 2022-11-09
Schematic Version: rev. 2/23/2023

Compliance ID: Eneqgphs-9995-0424-1096
Report Generated: 2024-04-11 06:58:37

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4/29/2024

C. COMPLIANCE RESULTS

Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)

Adjusted Lighting Power per 140.6(b) / 170.2(e) (Watts)

Compliance Results

01

02

03

04

05

06

07

08

09

Lighting in conditioned and unconditioned spaces must not be considered for compliance per 140.6(b) / 170.2(e)

Area Category Additional

Totaled

Total Adjusted

01 must be >= 08 (140.6 / 170.2(e))

Conditioned

Unconditioned

Complies

Complies

D. EXCEPTIONAL CONDITIONS

Exceeded Duration

Exceeded Software

CA Building Energy Efficiency Standards - 2022 NAEI/Interim Compliance

Report Version: 2022-11-09
Schematic Version: rev. 2/23/2023

Compliance ID: Eneqgphs-9995-0424-1096
Report Generated: 2024-04-11 06:58:37

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4/29/2024

E. ADDITIONAL REMARKS

Exceeded Duration

Exceeded Software

CA Building Energy Efficiency Standards - 2022 NAEI/Interim Compliance

Report Version: 2022-11-09
Schematic Version: rev. 2/23/2023

Compliance ID: Eneqgphs-9995-0424-1096
Report Generated: 2024-04-11 06:58:37

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4/29/2024

F. INDOOR LIGHTING FIXTURE SCHEDULE

Designated Spaces: Conditioned Spaces

Designated Spaces: Unconditioned Spaces

01

02

03

04

05

06

07

08

09

10

Name or Item Tag

Complete Luminaire Description

Modular (Track) Fixture

Small Aperture & Color Change

Watts per luminaire¹

How is Wattage Determined

Total Number of Luminaires

Excluded per 140.6(a) / 170.2(e)(2C)

Design Watts

Field Inspector

A

A1

B

B1

C

C1

D

D1

D2

D3

E

F

F1

F2

G

K

K1

L

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

31.2

31.2

13.6

13.6

6.7

5

5

5

5

5

19

26

38.4

38.4

7

14

14

Mfr Spec

Mfr Spec

Mfr Spec

Mfr Spec

Mfr Spec

Mfr Spec

Mfr Spec

Mfr Spec

Mfr Spec

Mfr Spec

Mfr Spec

Mfr Spec

Mfr Spec

Mfr Spec

Mfr Spec

Mfr Spec

Mfr Spec

194

47

26

24

10

1,880

1,880

486

340

340

20

9

82

3

22

14

14

6,440.8

2,562.4

418.8

403.2

116

938

6,760

9,460

40

2,480

380

1,248

3,148.8

115.2

504

198

336

Total Designated Watts: CONDITIONED SPACES

32,763

0

CA Building Energy Efficiency Standards - 2022 NAEI/Interim Compliance

Report Version: 2022-11-09
Schematic Version: rev. 2/23/2023

Compliance ID: Eneqgphs-9995-0424-1096
Report Generated: 2024-04-11 06:58:37

Page 1 of 101

4/29/2024

STATE OF CALIFORNIA

Indoor Lighting

CERTIFICATE OF COMPLIANCE

Project Name: SAN BERNARDINO COUNTY ANIMAL SHELTER

Report Pass: (Page 4 of 10)

Date Prepared: 4/13/2024

CA Building Energy Efficiency Commission

Compliance ID: E-energymtr-9903-0424-1096

Report Generated: 2024-04-13 06:58:32

6. INDOOR LIGHTING FIXTURE SCHEDULE

Any fixture having luminaires may ask for luminaires (not sheets) for on/off voltage used for compliance per 130.0(b)(1) / 163.5(b). Voltages used must be the maximum rated for the luminaire, not the lamp.

7. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

8. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls	01	02	03	
			Field Inspection	
			Pass	Fail
Mandatory Demand Response 130.12(c)		Shut-off controls 180.1(c) / 160.5(b)(4)		
(Required >=4,000W subject to multilevel)		Whole Building Auto Time Switch	☐	☐

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.100
Schema Version: rev.20230101

Compliance ID: E-energymtr-9903-0424-1096
Report Generated: 2024-04-13 06:58:32

STATE OF CALIFORNIA

Indoor Lighting

CERTIFICATE OF COMPLIANCE

Project Name: SAN BERNARDINO COUNTY ANIMAL SHELTER

Report Pass: (Page 5 of 10)

Date Prepared: 4/13/2024

9. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Mixed Area Controls 130.1(a) / 160.5(b)(4)	Multi-Level Controls 130.1(b) / 160.5(b)(4)	Shut-Off Controls 180.1(c) / 160.5(b)(4)	Primary/PAFs No Dimming 130.1(d) / 160.5(b)(4)	Secondary Daylighting 120.1(d) / 160.5(b)(4)	Interlocked Systems 140.6(a) / 150.7(a)(2)	Field Inspection	
								Pass	Fail
RESTROOM	Restroom	Ready Accessible	NA: Restroom	Occupancy Sensor	NA: Garage daylight adaptation	NA: Garage daylight adaptation	No	☐	☐
STORAGE ROOM	Commercial/Industrial Storage Area	Ready Accessible	Dimmer	Occupancy Sensor	NA: Garage daylight adaptation	NA: Garage daylight adaptation	No	☐	☐
BREAKROOM	All Other Space Types	Ready Accessible	Dimmer	Occupancy Sensor	NA: Garage daylight adaptation	NA: Garage daylight adaptation	No	☐	☐
OFFICE AREA >250 SFT	Office (>250 square feet)	Ready Accessible	Dimmer	Occupancy Sensor	NA: Garage daylight adaptation	NA: Garage daylight adaptation	No	☐	☐
OFFICE AREA <250 SFT	Office (<250 square feet)	Ready Accessible	Dimmer	Occupancy Sensor	NA: Garage daylight adaptation	NA: Garage daylight adaptation	No	☐	☐
LOBBY AREA	Main Entry Lobby	Ready Accessible	NA: General lig <= 0.5W/ft²	Occupancy Sensor	Included	Included	No	☐	☐
ELECTRICAL ROOM	Electrical/Mechanical Telephone Room	Ready Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Garage daylight adaptation	NA: Garage daylight adaptation	No	☐	☐
CORRIDOR	Corridor	Ready Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.100
Schema Version: rev.20230101

Compliance ID: E-energymtr-9903-0424-1096
Report Generated: 2024-04-13 06:58:32

STATE OF CALIFORNIA

Indoor Lighting

CERTIFICATE OF COMPLIANCE

Project Name: SAN BERNARDINO COUNTY ANIMAL SHELTER

Report Pass: (Page 6 of 10)

Date Prepared: 4/13/2024

10. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Mixed Area Controls 130.1(a) / 160.5(b)(4)	Multi-Level Controls 130.1(b) / 160.5(b)(4)	Shut-Off Controls 180.1(c) / 160.5(b)(4)	Primary/PAFs No Dimming 130.1(d) / 160.5(b)(4)	Secondary Daylighting 120.1(d) / 160.5(b)(4)	Interlocked Systems 140.6(a) / 150.7(a)(2)	Field Inspection	
								Pass	Fail
CONFERENCE ROOM	Conversion, Conference, Multipurpose and Meeting Center	Ready Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
KITCHEN	Kitchen/ Food Preparation	Ready Accessible	Dimmer	Occupancy Sensor	NA: Garage daylight adaptation	NA: Garage daylight adaptation	No	☐	☐

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.100
Schema Version: rev.20230101

Compliance ID: E-energymtr-9903-0424-1096
Report Generated: 2024-04-13 06:58:32

11. LIGHTING POWER ALLOWANCE, COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying with the Complete Building or Area Category Methods, per 140.6(a) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.

Conditioned Spaces	01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Watts (Watts)	Additional Allowance / Adjustment Area Category	Y/N
RESTROOM	Restroom	0.65	1,373	895	No	No
CAFETERIA	All Other Space Types	0.45	1,410	634.5	No	No
STORAGE <50 SFT	Commercial/Industrial Warehouse	0.4	5,774	2,309.6	No	No
ELECTRICAL/MECHANICAL/ELECTRONIC	Electrical/Mechanical Telephone Room	0.4	1,564	625.6	No	No
OFFICE <250 SFT	Office (<250 square feet)	0.65	3,573	2,322.5	No	No
OFFICE >250 SFT	Office (>250 square feet)	0.6	3,589	2,153.4	No	No
KITCHEN	Kitchen/ Food Preparation	0.9	261	231.9	No	No
STAR	Stairwell	0.9	423	252.9	No	No
LOBBY	Main Entry Lobby	0.7	2,990	2,093	No	No
CORRIDOR	Corridor	0.4	2,520	1,008	No	No

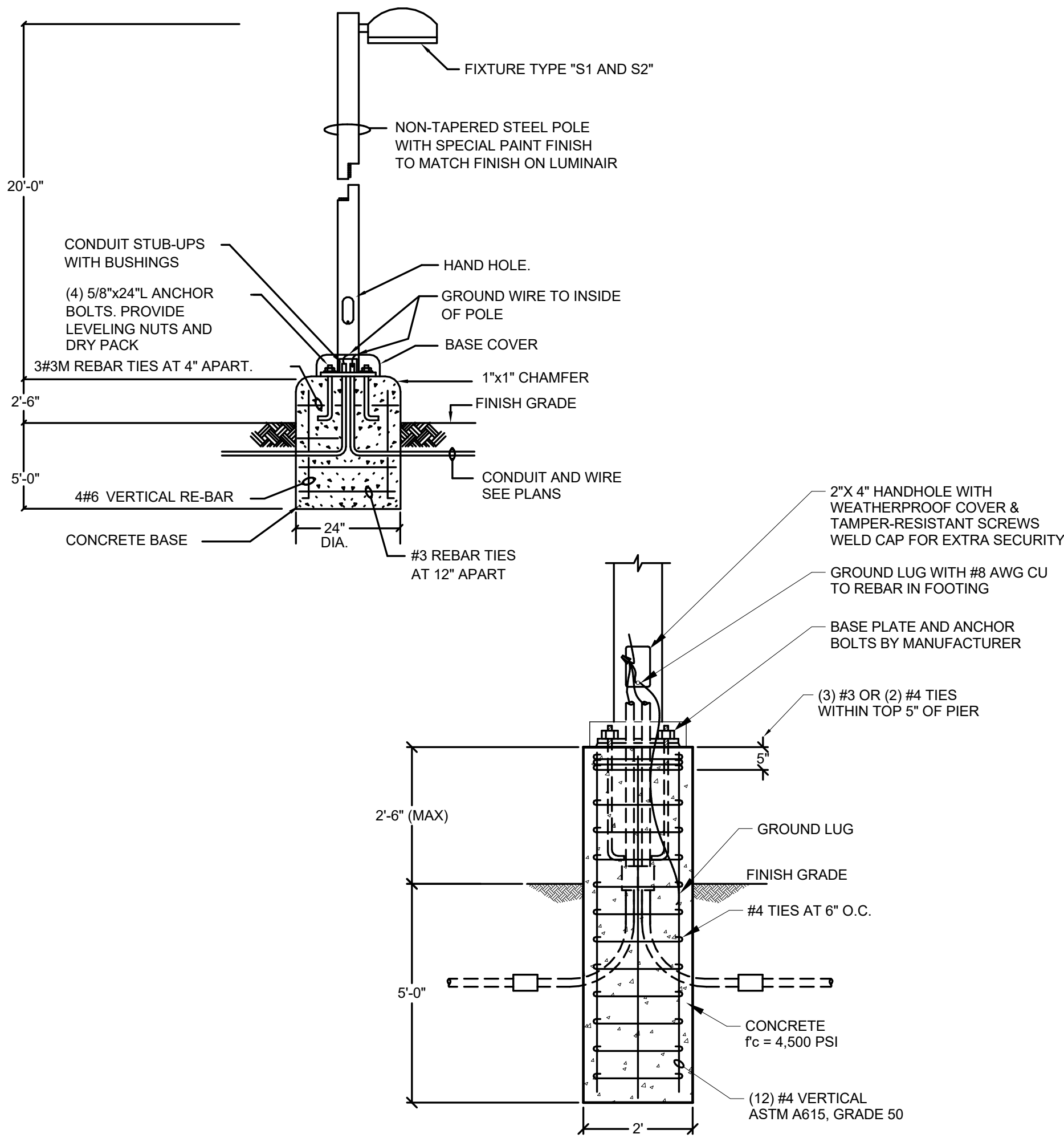
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.100
Schema Version: rev.20230101

Compliance ID: E-energymtr-9903-0424-1096
Report Generated: 2024-04-13 06:58:32

STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION				
CERTIFICATE OF COMPLIANCE		NCC-C4-E				
Project Name: SAN BERNARDINO COUNTY ANIMAL SHELTER		Report Page:	Page 9 of 30			
		Date Prepared:	4/19/2014			
I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS						
CONFERENCE/MEETING/MULTI-PURPOSE	Convention, Conference, Multipurpose and Meeting Center	6.75	A.121	4,060.8	No	No
STORAGE <50 SFT	Commercial/Industrial Warehouse	0.4	128	3.2	No	No
TREATMENT	Hospital - Emergency Treatment	0.15	1,642	2,465.3	No	No
MEDICAL ROOM	Hospital - Medical Supply	0.55	31,797	13,688.4	No	No
OPERATING ROOM	Hospital - Operating Room	1.9	703	1,135.7	No	No
LABORATORY	Laboratory Area, Suite/Office	0.9	346	211.9	No	No
LAUNDRY	Laundry	0.45	442	198.9	No	No
LOCKER ROOM	Locker/Dressing Room	0.45	113	50.8	No	No
		TOTALS:	67,093	30,463.6	See Tables J, K, L, P for Detail	
J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM						
This section does not apply to this project.						
K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE						
This section does not apply to this project.						
L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY						
This section does not apply to this project.						
M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING						
This section does not apply to this project.						
N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS						
This section does not apply to this project.						
Generated Date/Time:		Documentation Software: Enscape 3.0				
CA Building Energy Efficiency Standards - 2022 International Compliance		Report Version: 2022.0.100 Scheduling Version: v14.02.01.01				
Compliance ID: Enscape/9905/6414-1206		Report Generated: 2024-04-19 06:38:37				
STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION				
CERTIFICATE OF COMPLIANCE		NCC-C4-E				
Project Name: SAN BERNARDINO COUNTY ANIMAL SHELTER		Report Page:	Page 8 of 30			
		Date Prepared:	4/19/2014			
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE						
This section does not apply to this project.						
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))						
This section does not apply to this project.						
Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERNATIONS						
This section does not apply to this project.						
R. BOLLIGHTING POWER FOR ALTERNATIONS - CONTROLS EXCEPTIONS						
This section does not apply to this project.						
S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)						
This section does not apply to this project.						
T. DWELLING UNIT LIGHTING						
This section does not apply to this project.						
U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION						
Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table I. Additional Remarks. These documents must be provided to the building inspector during construction and may with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/files24/tattp/tattpdocs.html						
Form/Title:						
NCC-C4-E - Must be submitted for all buildings						
Generated Date/Time:		Documentation Software: Enscape 3.0				
CA Building Energy Efficiency Standards - 2022 International Compliance		Report Version: 2022.0.100 Scheduling Version: v14.02.01.01				
Compliance ID: Enscape/9905/6414-1206		Report Generated: 2024-04-19 06:38:37				
STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION				
CERTIFICATE OF COMPLIANCE		NCC-C4-E				
Project Name: SAN BERNARDINO COUNTY ANIMAL SHELTER		Report Page:	Page 9 of 30			
		Date Prepared:	4/19/2014			
V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE						
Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table I. Additional Remarks. These documents must be provided to the building inspector during construction and may with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/files24/tattp/tattpdocs.html						
Form/Title:		System/Control To Be Field Verified:				
NRECA-1T-02-A - Must be submitted for occupancy sensors and automatic time switch controls:		Whole Building Time Switch: RESTROOM, STORAGE ROOM, RECEPTION OFFICE AREA >250 SFT, OFFICE AREA <250 SFT, LOBBY AREA, FILE ARCHIVAL ROOM, COUNCILOR, CONFERENCE ROOM, KITCHEN				
NRECA-1T-03-A - Must be submitted for automatic daylight controls:		LOBBY AREA, CORRIDOR, CONFERENCE ROOM:				
NRECA-1T-04-A - Must be submitted for demand responsive lighting controls:		Whole Building Demand Response:				
Generated Date/Time:		Documentation Software: Enscape 3.0				
CA Building Energy Efficiency Standards - 2022 International Compliance		Report Version: 2022.0.100 Scheduling Version: v14.02.01.01				
Compliance ID: Enscape/9905/6414-1206		Report Generated: 2024-04-19 06:38:37				

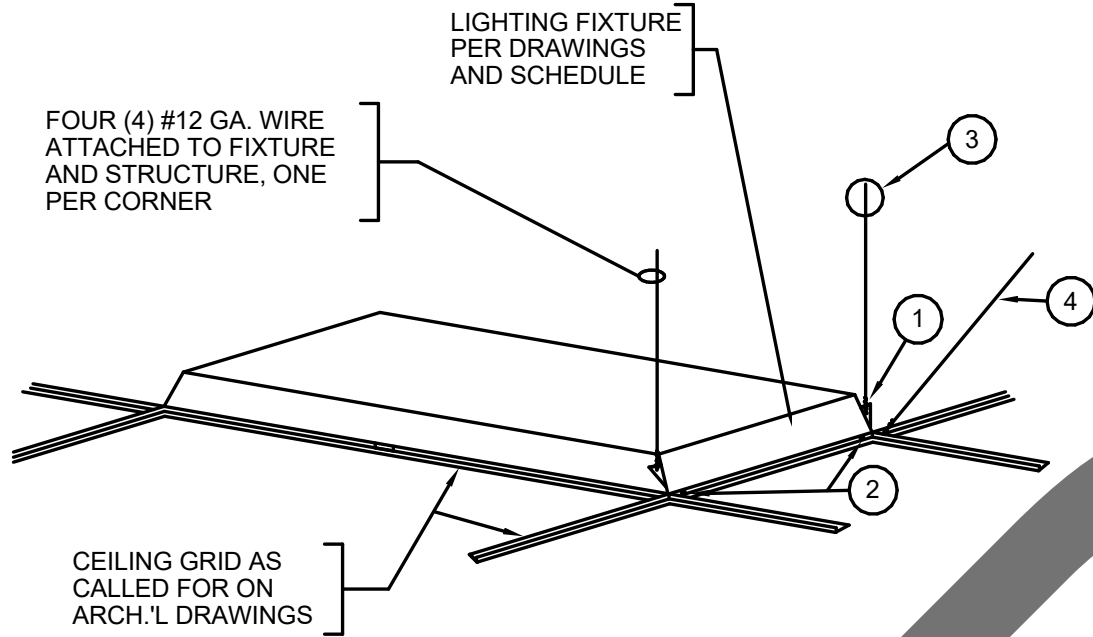
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20' POLE BASE DETAIL

NTS

1



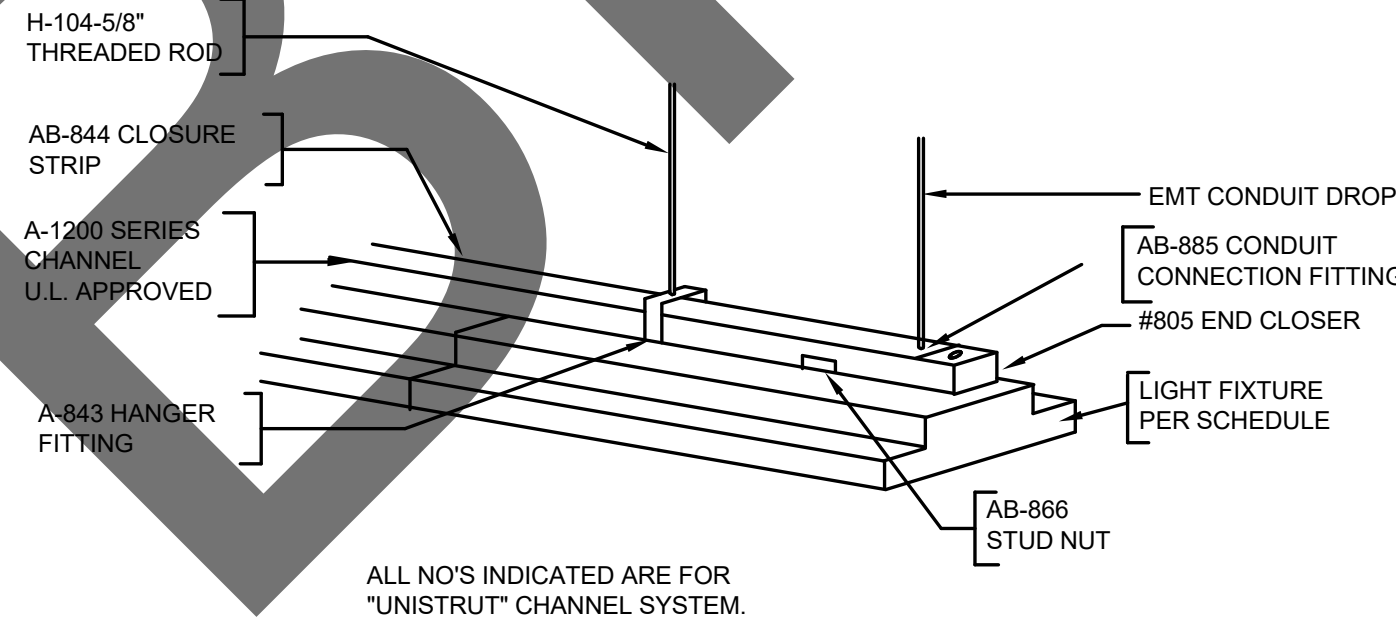
NOTES:

- 1 ATTACH WIRE TO FIXTURE (3 TIGHT TURNS MIN. IN 1 1/2" MAX.).
- 2 "TEK" SCREW GRID TO FIXTURE @ EACH CORNER.
- 3 ATTACH HANGER WIRES TO STRUCTURE AS PER STRUCTURAL & ARCHITECTURAL DETAILS.
- 4 CEILING SYSTEM SPLAY/HANGER WIRES AS OCCURS, SEE PLANS.

RECESSED LAY-IN CEILING FIXTURE MOUNTING DETAIL

NTS

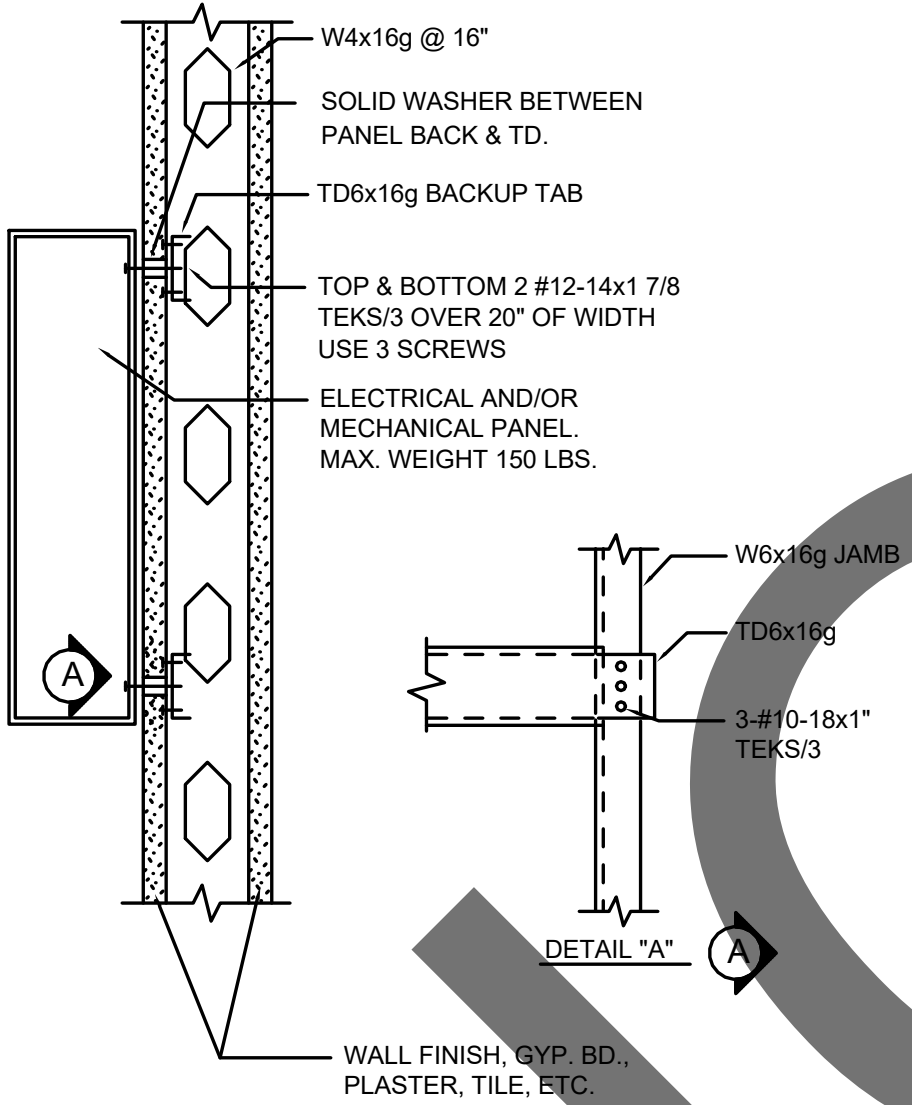
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PENDANT LIGHTING FIXTURE MOUNTING DETAIL

NTS

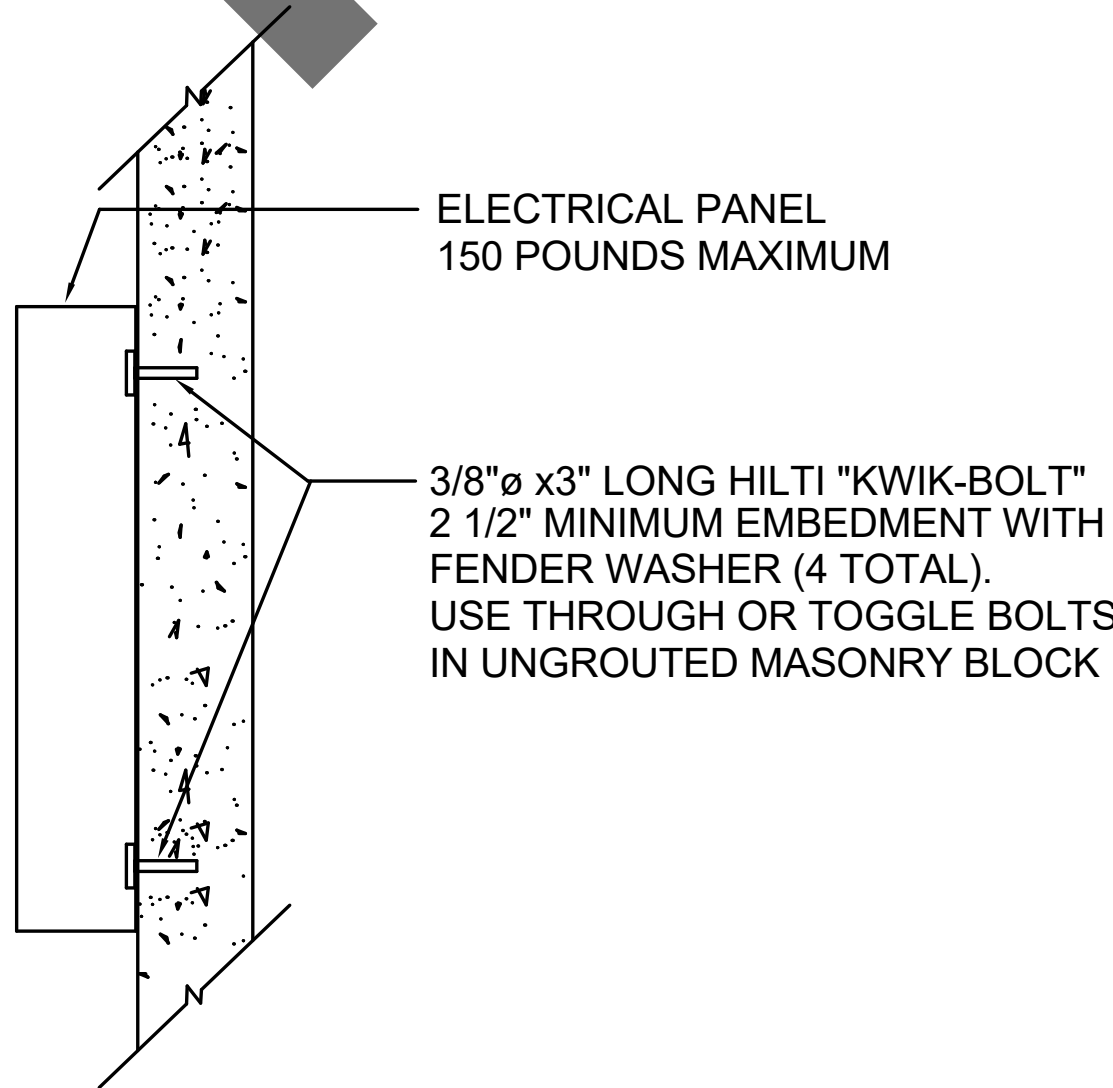
3



SURFACE MOUNTED PANEL/CABINET STEEL FRAMING

NTS

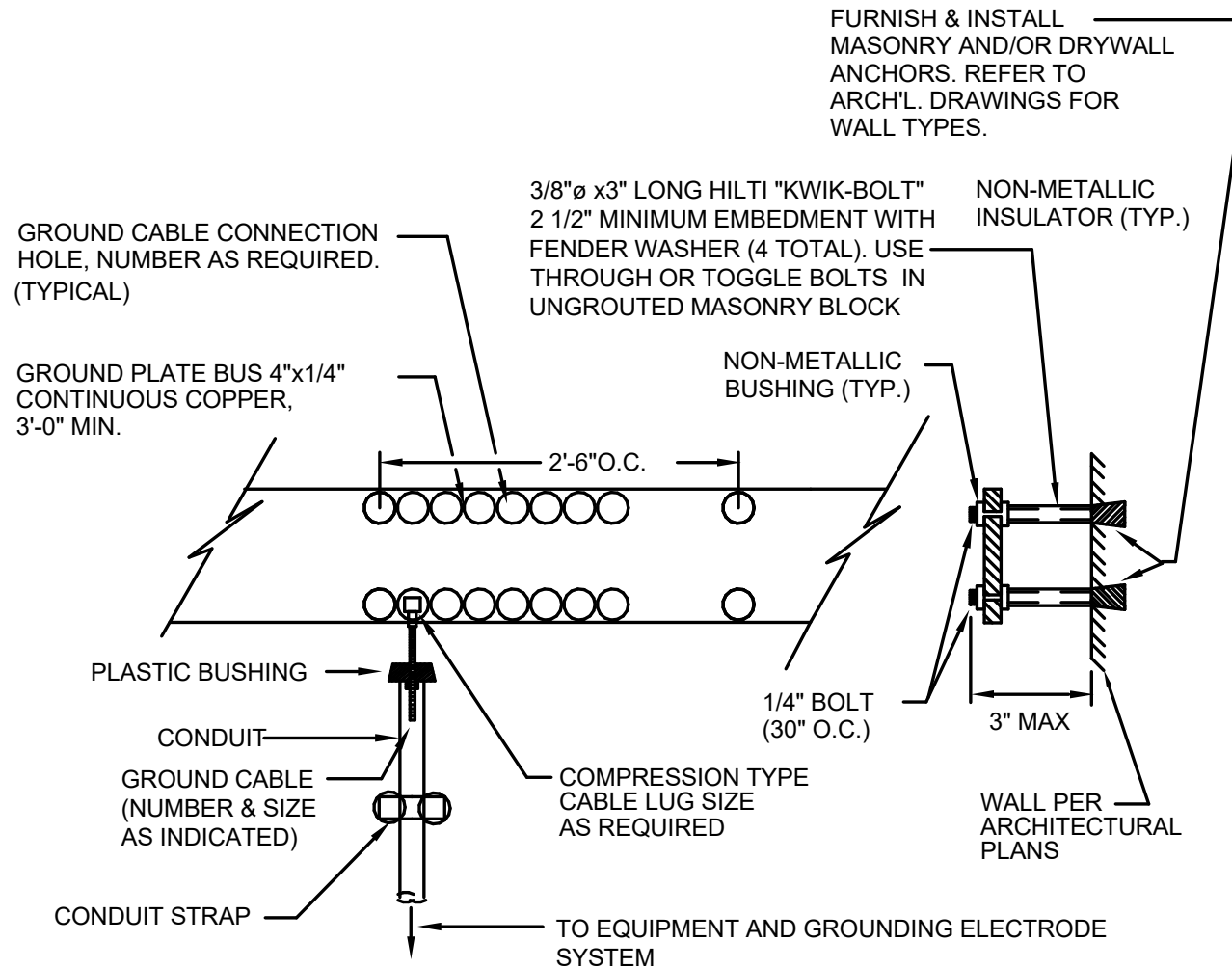
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SURFACE MOUNTED PANEL/CABINET CMU OR MASONRY WALL

NTS

5



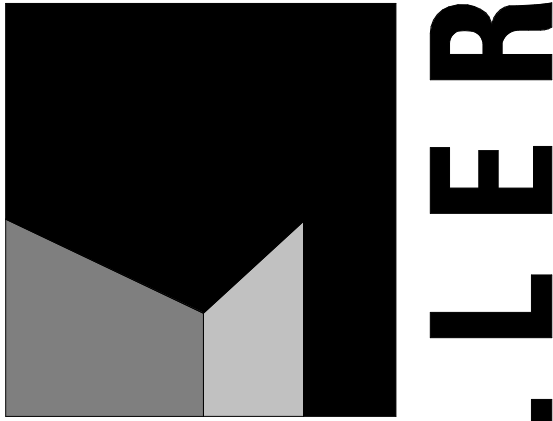
GROUND BUS MOUNTING DETAIL

NTS

6

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info@miller-aip.com



owner approval

initials	date	phase

revisions/addenda

#	Date	Comment
---	------	---------

ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number: 1227
Drawn By: Author
Checked By: PS
Issue Date: 05/17/24

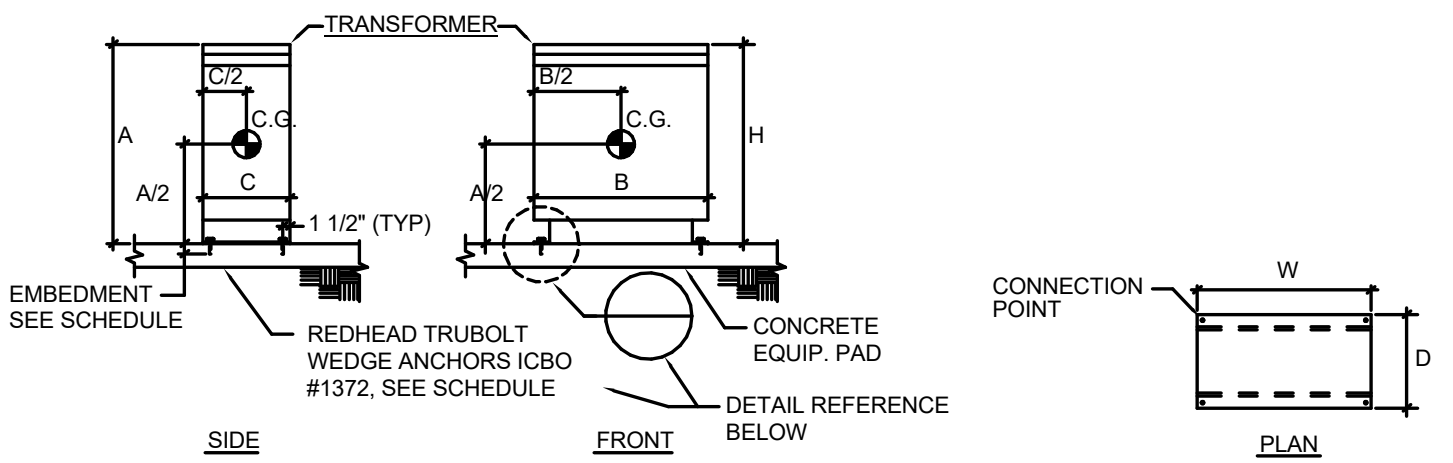
sheet name

DETAILS

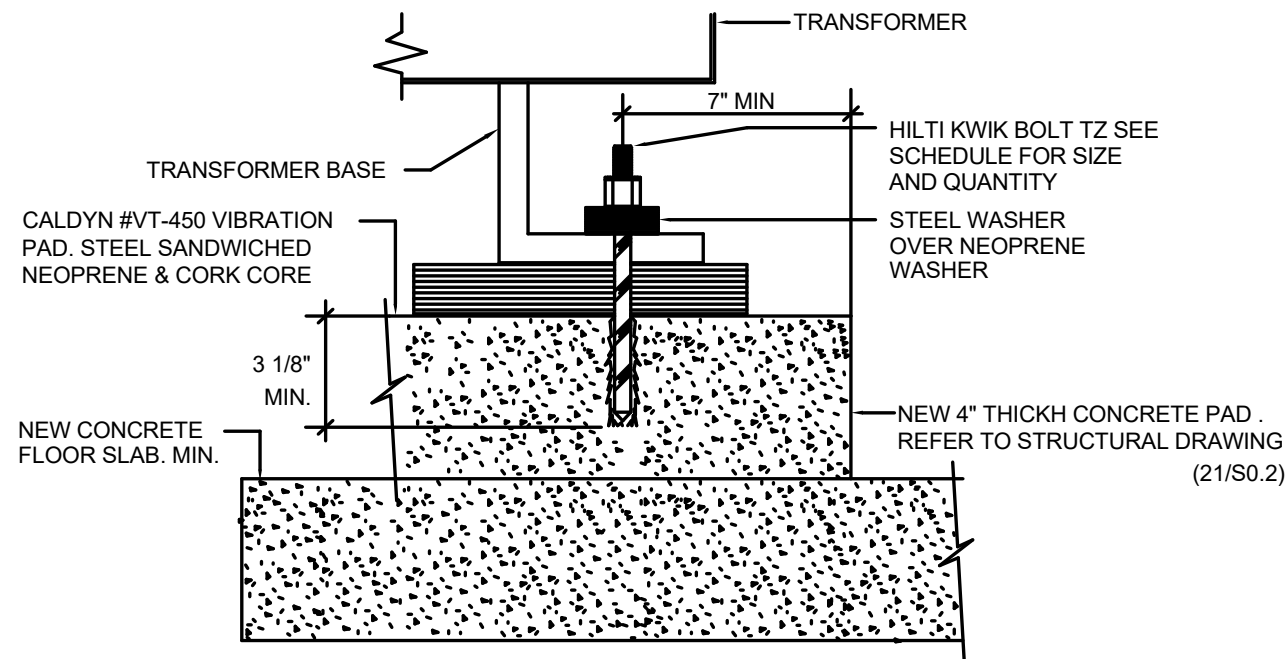
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E-300

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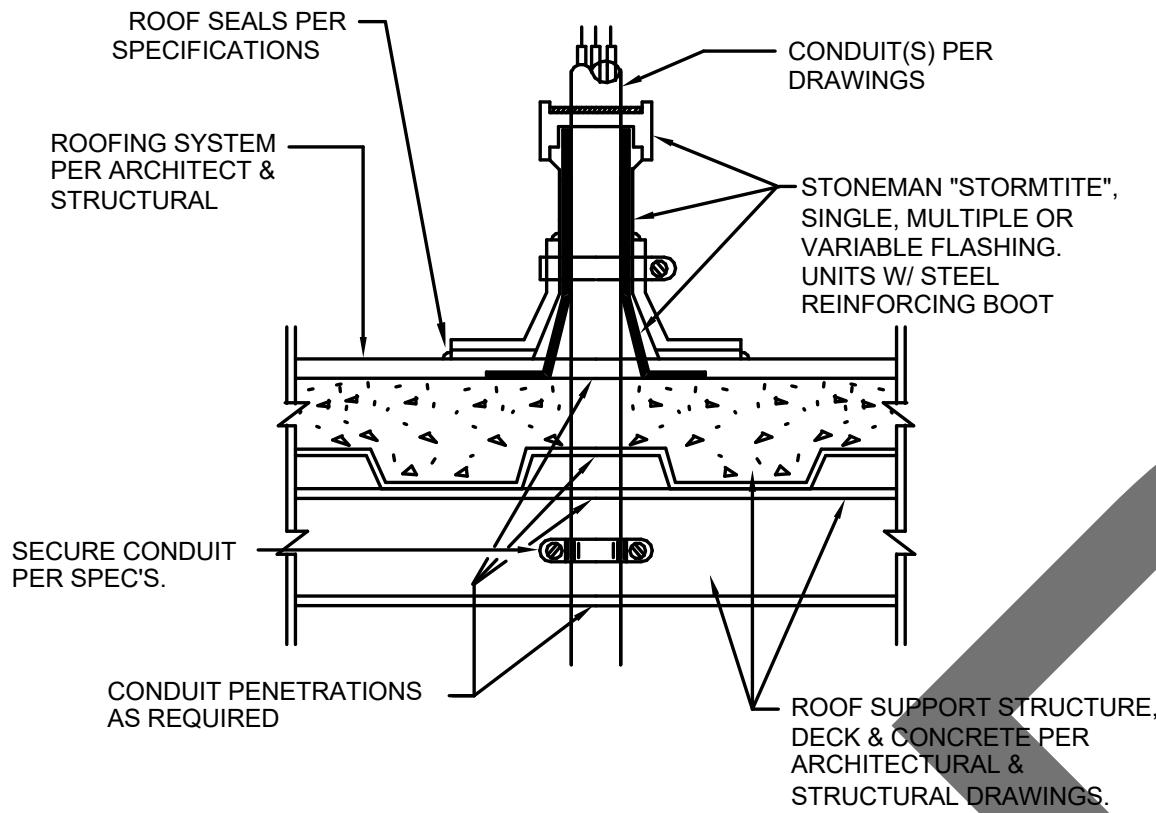
SYMBOL	A	B	C	WEIGHT LBS	MIN. NO ANCHORS	SIZE OF ANCHORS	MINIMUM EMBEDMENT	MOUNTING ANCHORS
75KVA XFMR	42"	30.06"	22.75"	770	4	1/2" Ø	4"	FLOOR



TRANSFORMER MOUNTING DETAIL

NTS

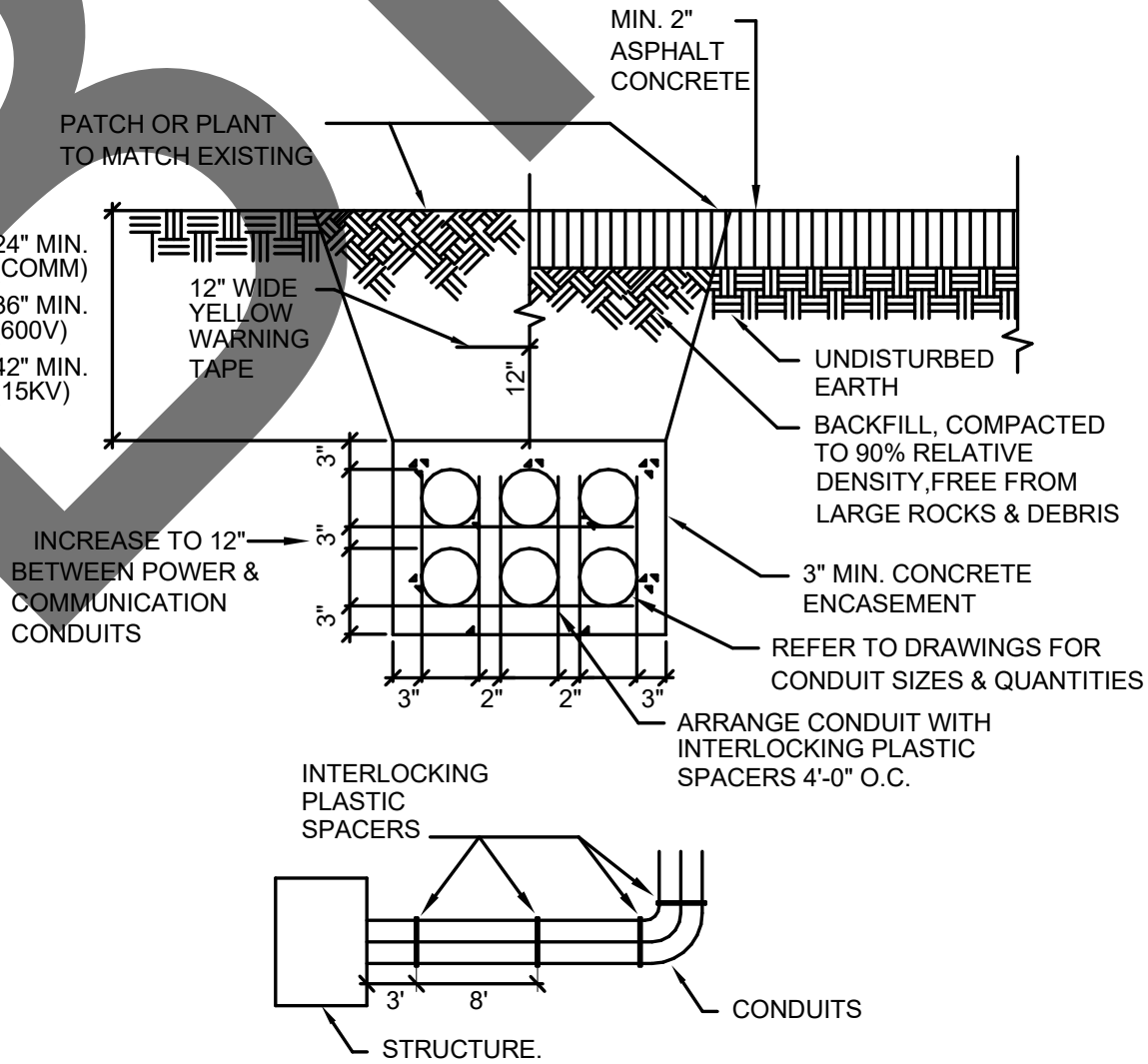
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CONDUIT ROOF PENETRATION DETAIL

NTS

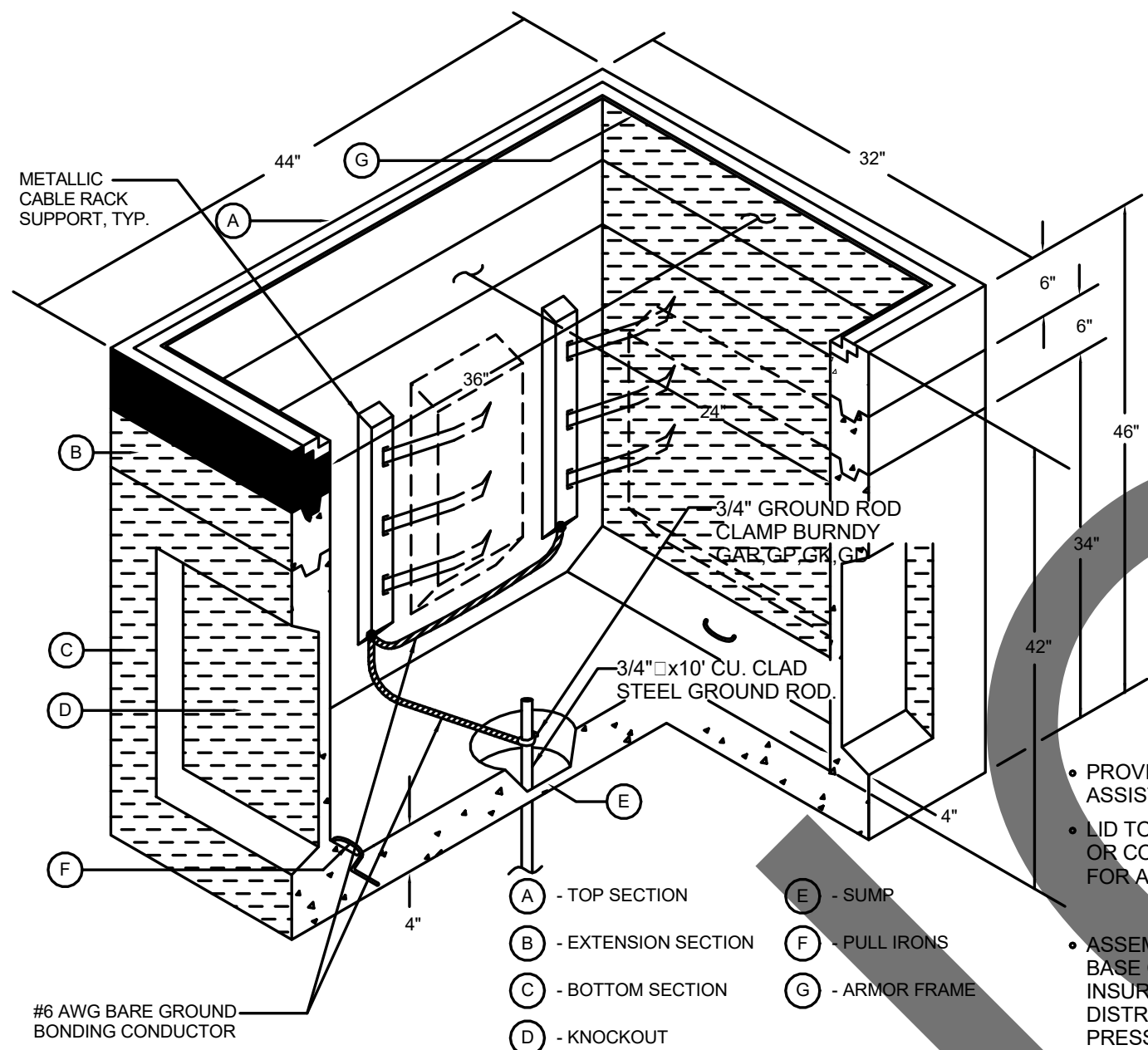
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UNDERGROUND CONDUIT PLACEMENT DETAIL

NTS

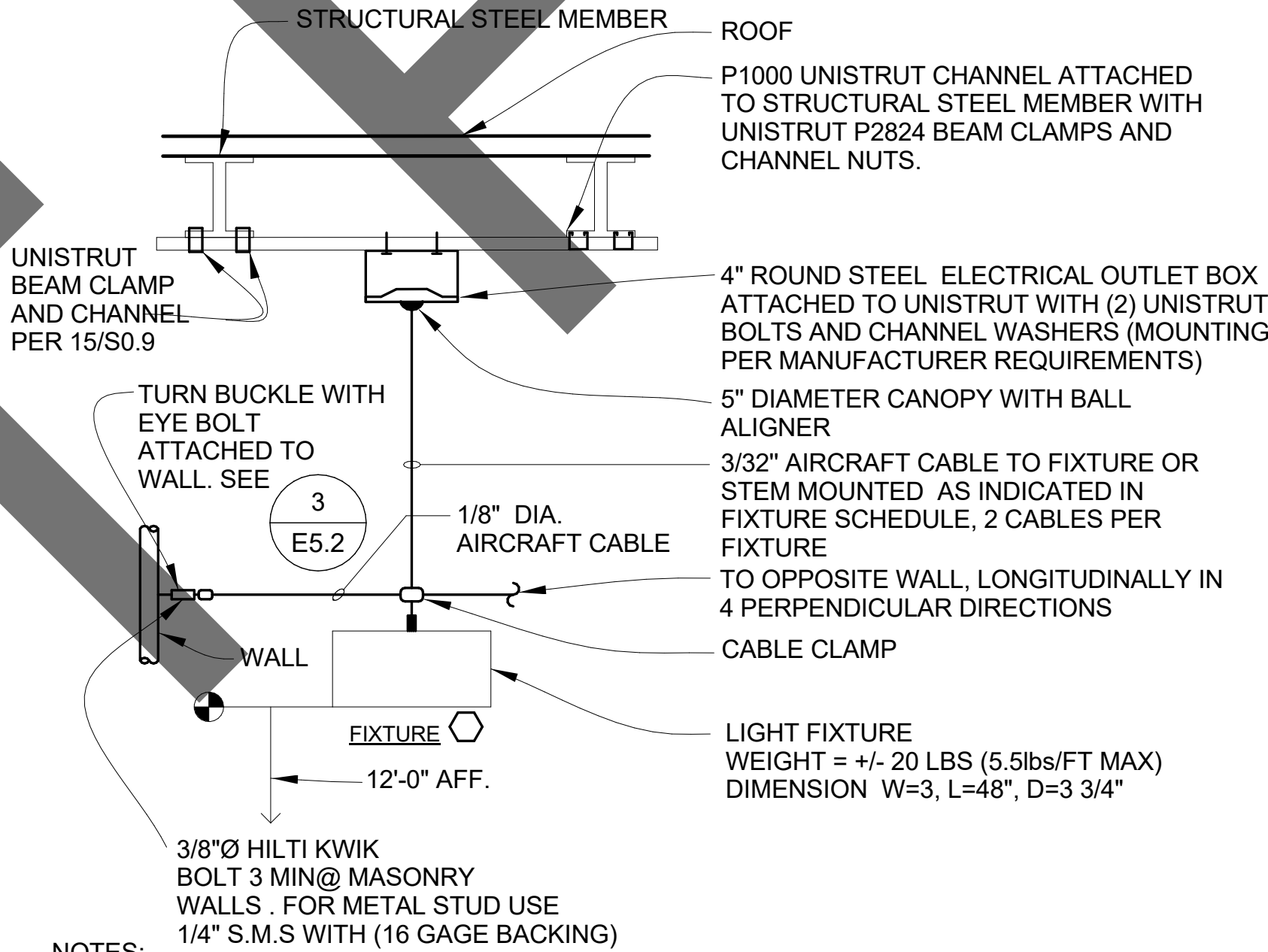
3



2'-0"x3'-0"x3'x6" DEEP PULL BOX

NTS

4



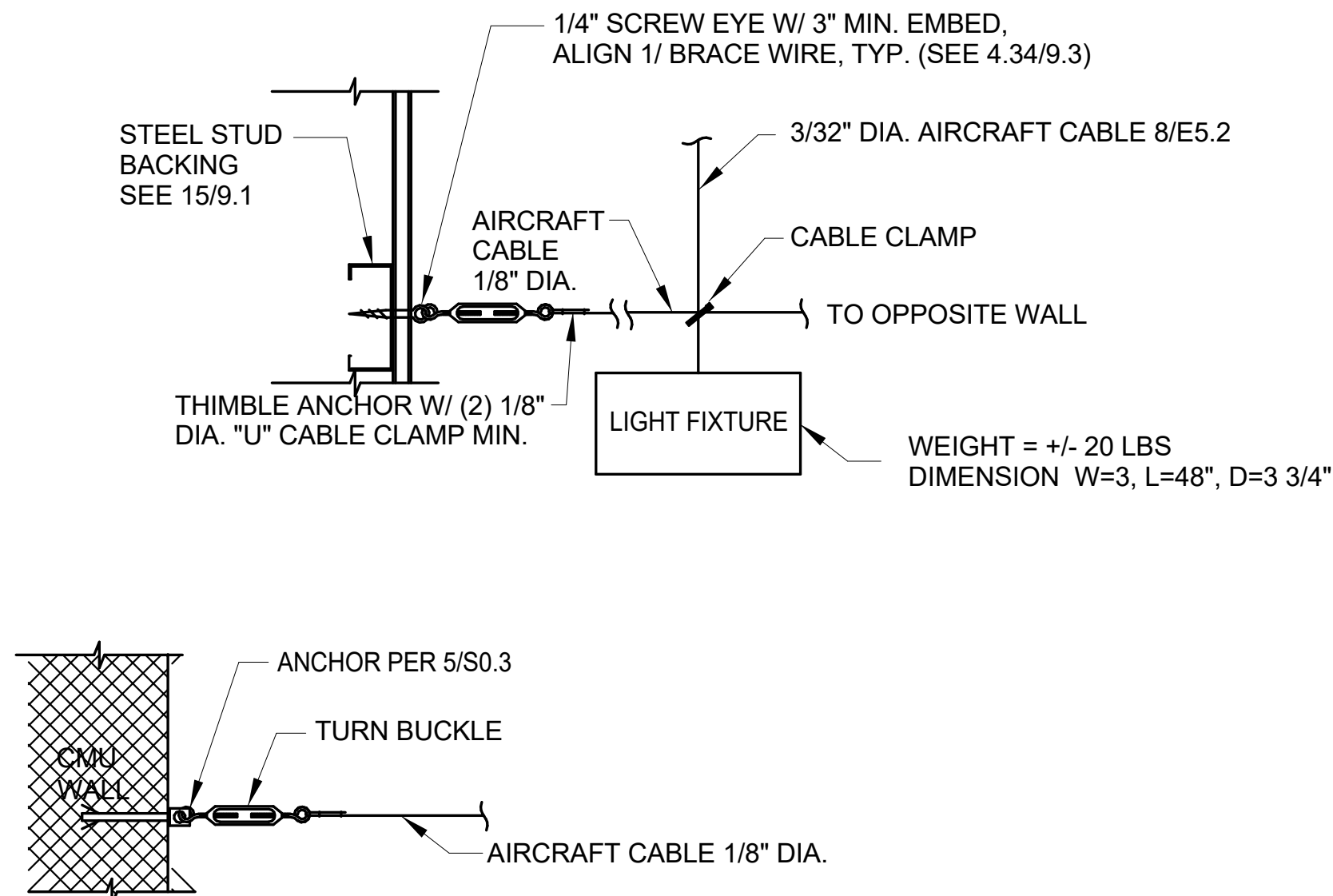
NOTES:

- SUSPENSION SYSTEM AS INSTALLED ARE FREE TO SWING A MINIMUM OF 45°FROM THE VERTICAL IN ALL DIRECTIONS WITHOUT CONTACTING OBSTRUCTIONS. PROVIDE HORIZONTAL SEISMIC BRACING CABLE WHEN 45° SWING WOULD MEET OBSTRUCTION. SEE LIGHTING PLAN.
- MOUNTING HARDWARE AND ASSEMBLY SHALL COMPLY WITH LIGHTING MANUFACTURER INSTALLATION REQUIREMENT.
- MAXIMUM FIXTURE WEIGHT PER SUPPORT 30LBS.

PENDANT LIGHTING MOUNTING DETAIL

NTS

5



NOTE:

- PROVIDE SPLAY BRACING AT BOTH DIRECTIONS

SPLAY BRACE ATTACHMENT TO WALL

NTS

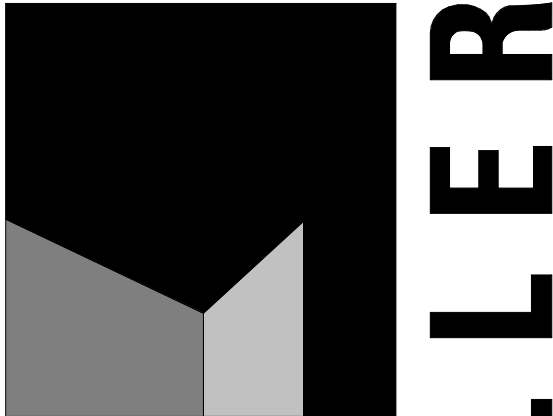
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0 1 2 3
REF. SCALE IN INCHES PROJECT #22007569.00

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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment
---	------	---------

ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	PS
Issue Date:	05/17/24

sheet name

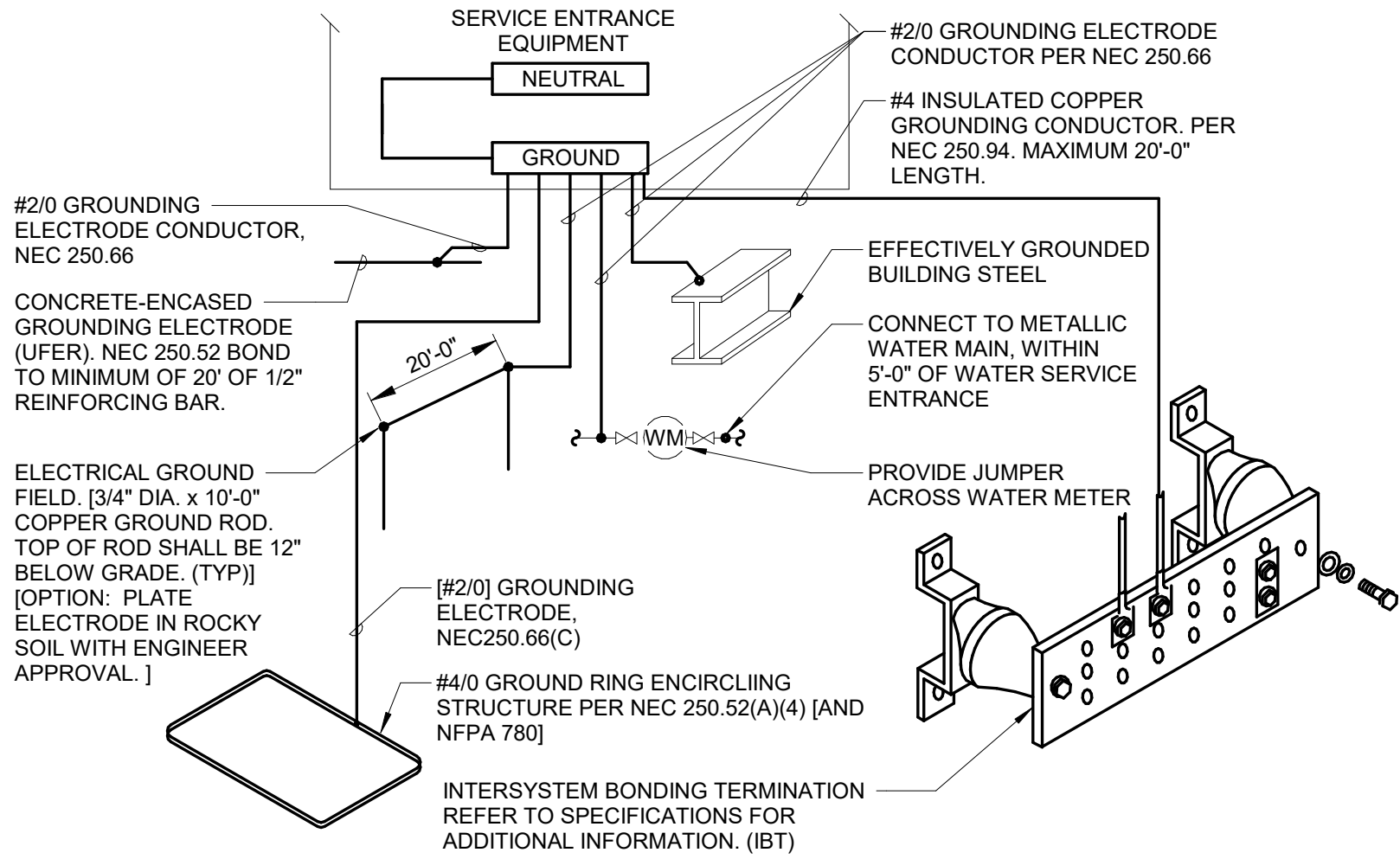
DETAILS

sheet number

E-301

Sheet Of Sheets

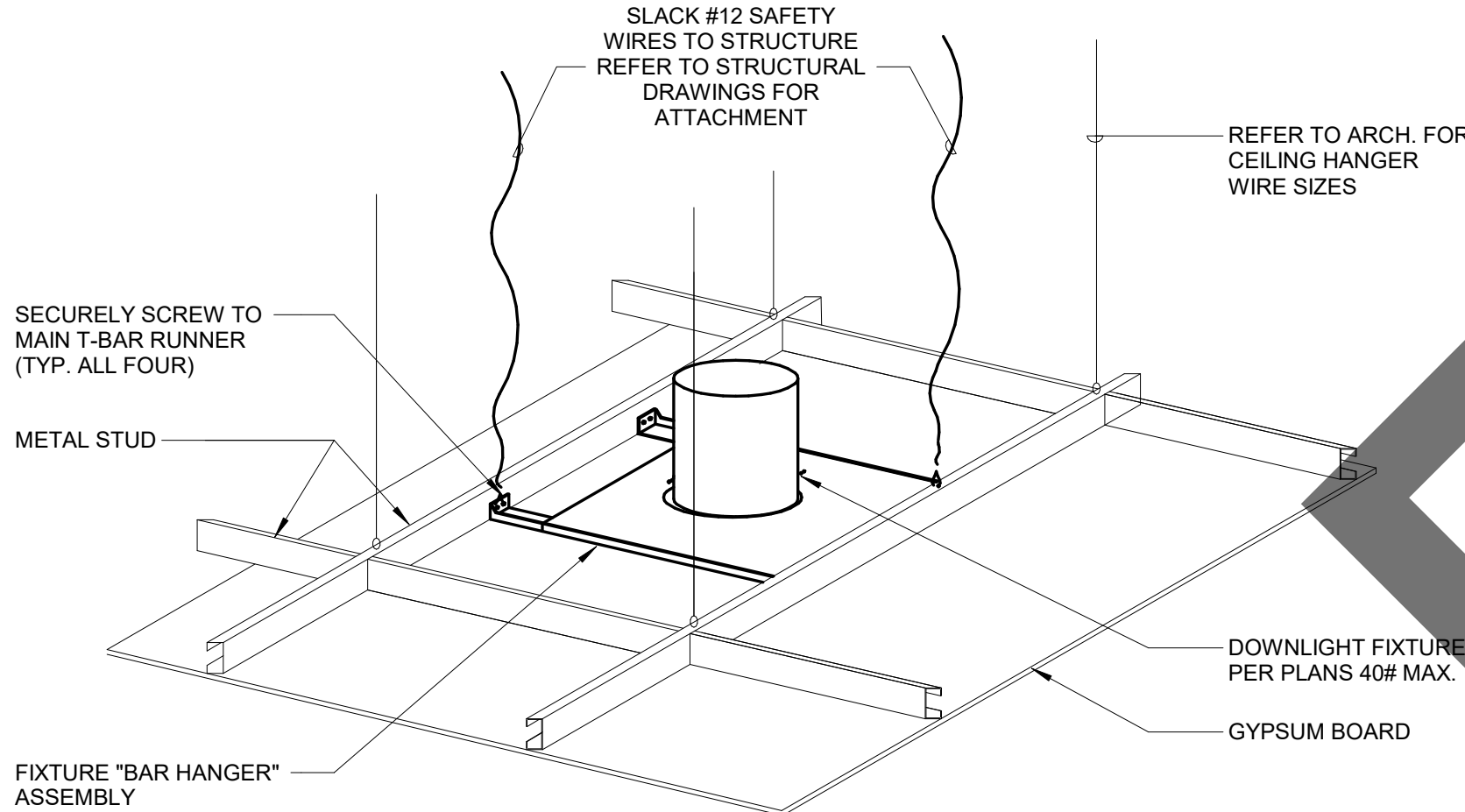
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New San Bernardino County Animal Shelter C.rvt



- NOTES.
1. REFER TO SPECIFICATION SECTION 26 05 26 GROUNDING AND BONDING

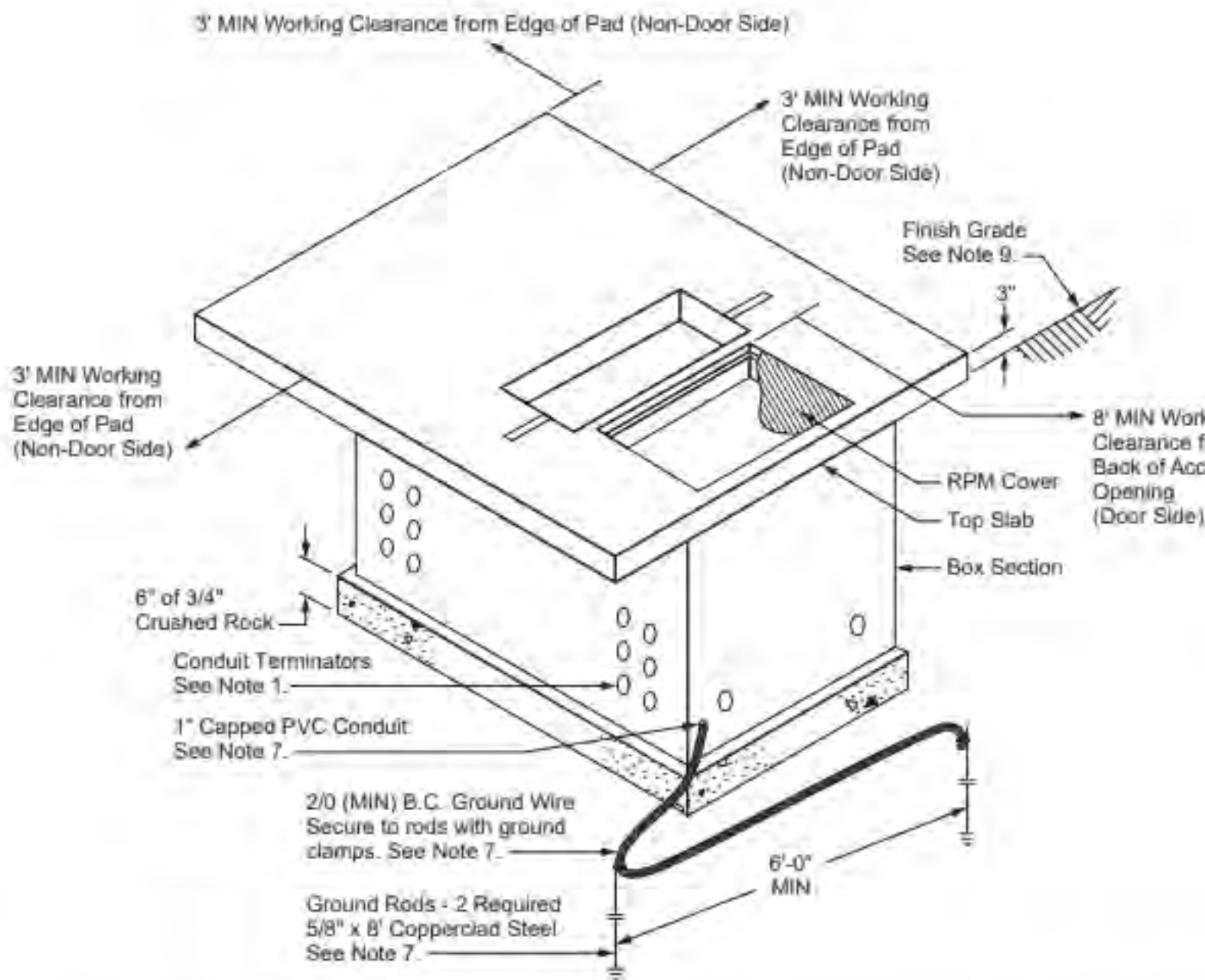
1 SERVICE ENTRANCE GROUNDING ELECTRODE SYSTEM DETAIL

NO SCALE
E_G00



2 RECESSED DOWNLIGHT IN GYPSUM BOARD DETAIL

NO SCALE
E_L003_CA



- Note(s):**
1. Conduit terminators to be located as shown on Figure SS 535-2 (Sheet 2) to Figure SS 535-5 (Sheet 5). Standard conduit entrance will be a flatwall design. Slight variations by manufacturers may be allowed with Company approval.
 2. When cable trench openings are required in a slab box, they can be special ordered from the concrete pre-caster.
 3. For slab box structural design criteria, see Figure SS 535-2 (Sheet 2) to Figure SS 535-5 (Sheet 5).
 4. For list of material requirements notes, see Table SS 535-1 (Sheet 6).
 5. Consult manufacturers' installation guides for excavation dimensions.
 6. An 8' minimum clearance is required on door side of transformer for operation.
 7. Ground rods, clamps, and wire will be furnished by contractor. See AC 703 for approved grounding materials. Ground wire to be a minimum of 2/0 bare copper. Ground wire to be placed through capped one-inch PVC conduit at either end of slab box. A minimum three-foot length of ground wire will be placed in slab box.
 8. Mastix sealant is required at joints.
 9. Top surface of slab box will be set three inches above finished grade.
 10. See SS 500 for approved manufacturers.

3 10'X12' PRECAST SLAB BOX FOR 3 PHASE PAD-MOUNTED TRANSFORMER PER SCE REQUIREMENT

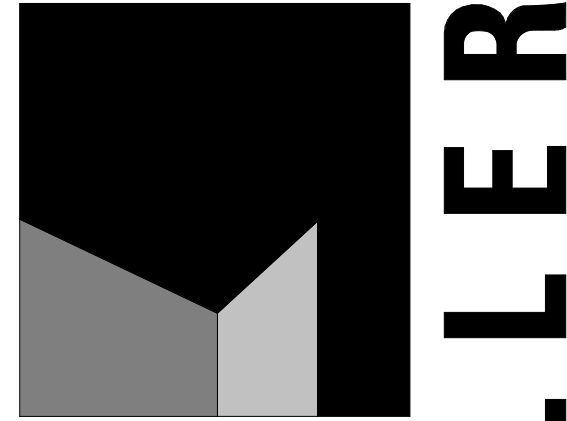
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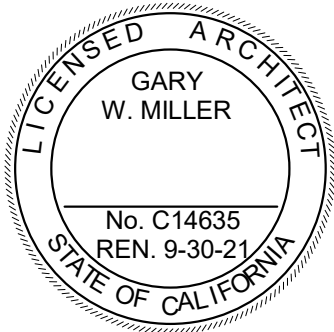
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ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number: 1227
Drawn By: Author
Checked By: PS
Issue Date: 05/17/24

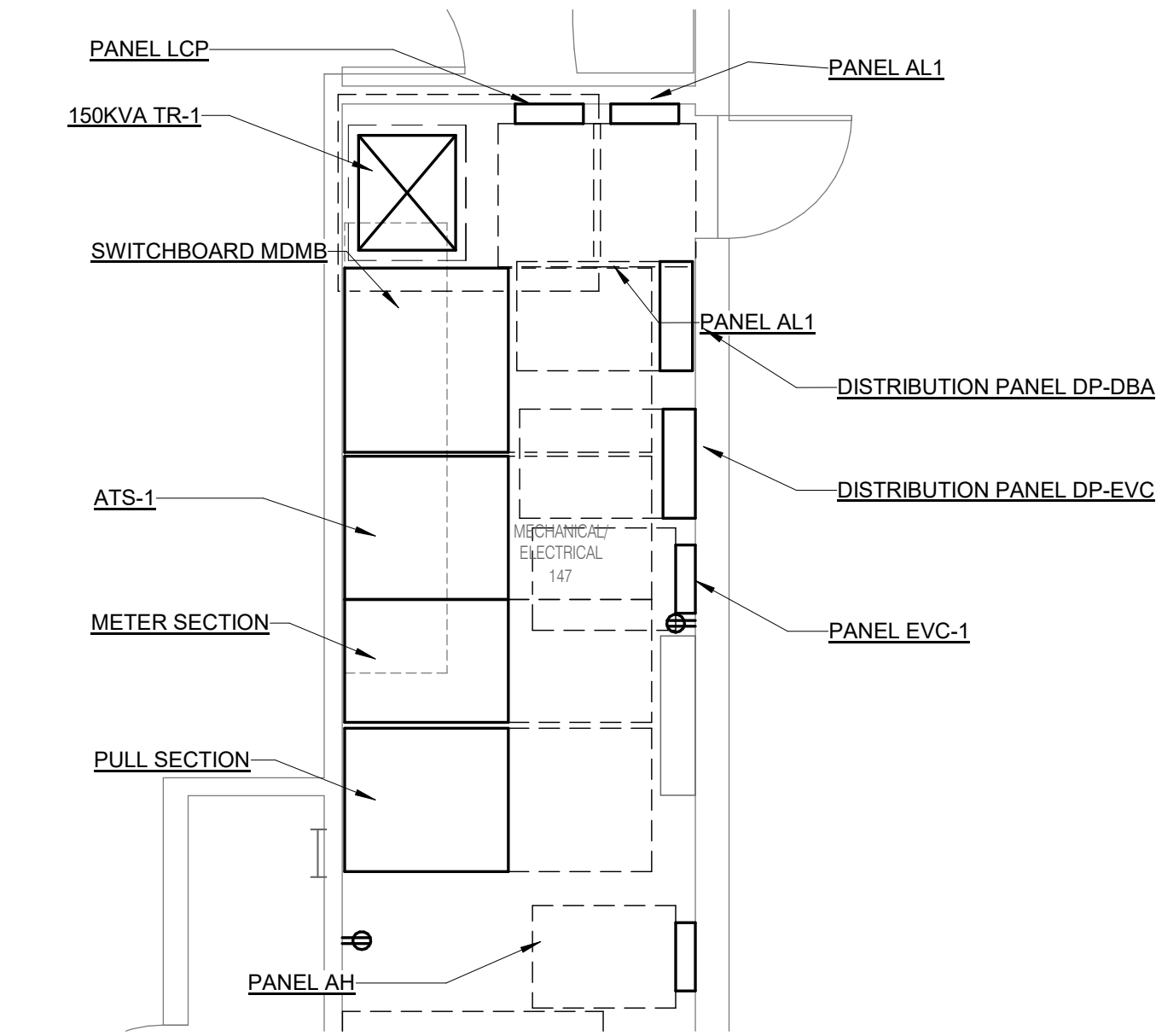
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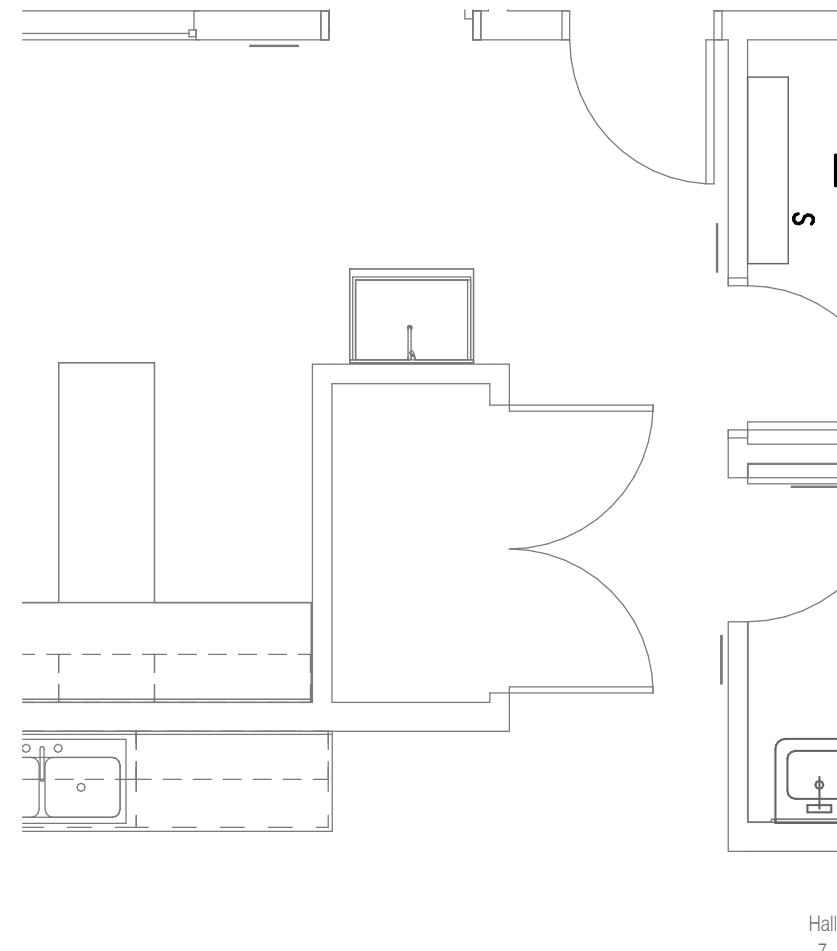
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E-302

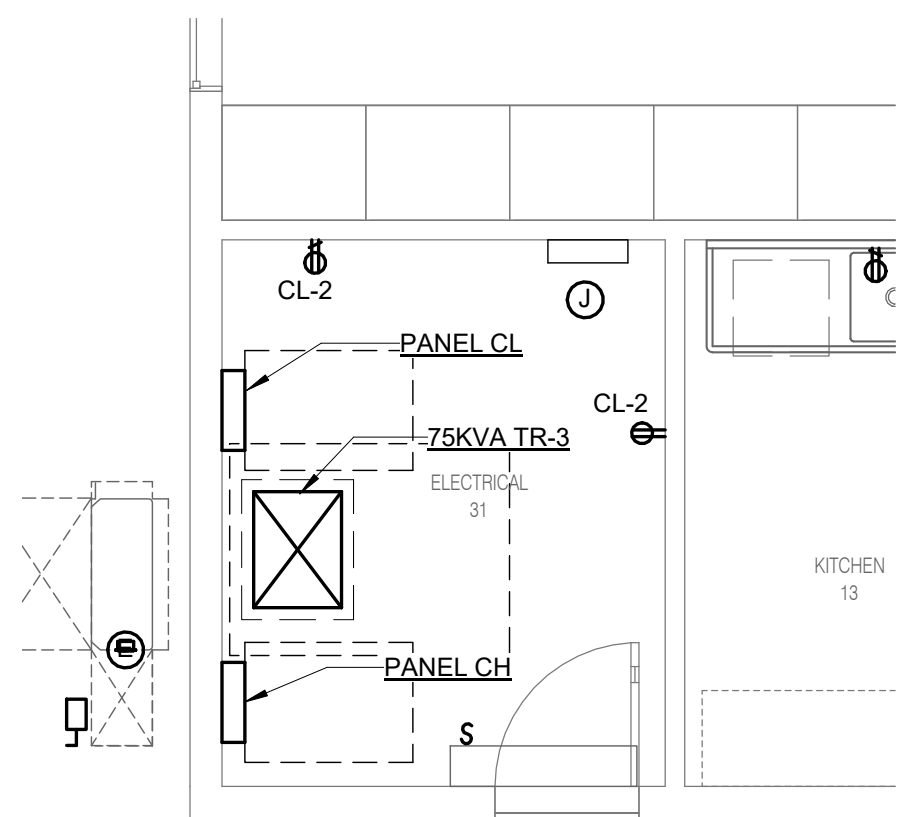
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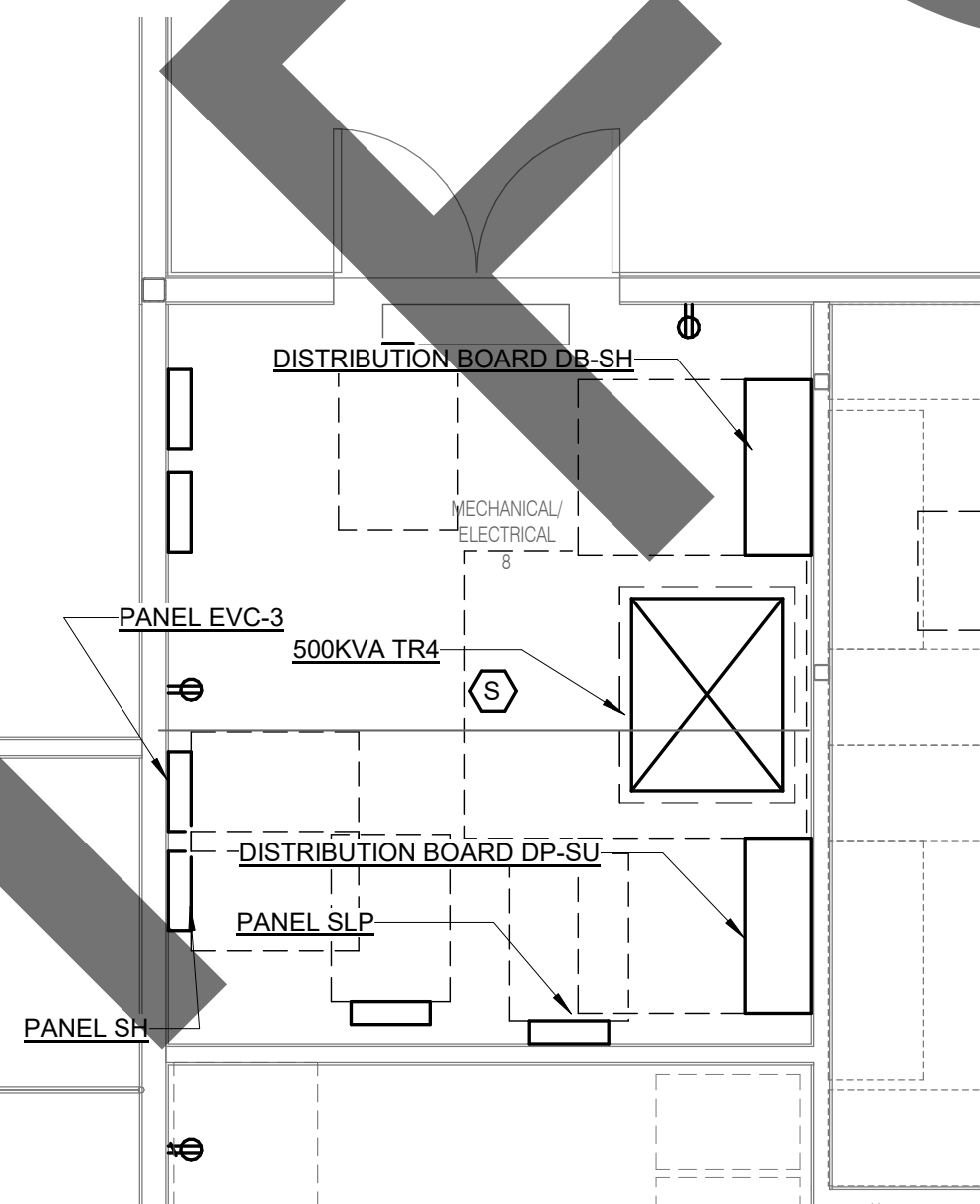
1 ADMIN BLDG MAIN ELECTRICAL ROOM ENLARGED PLAN
1/4" = 1'-0"



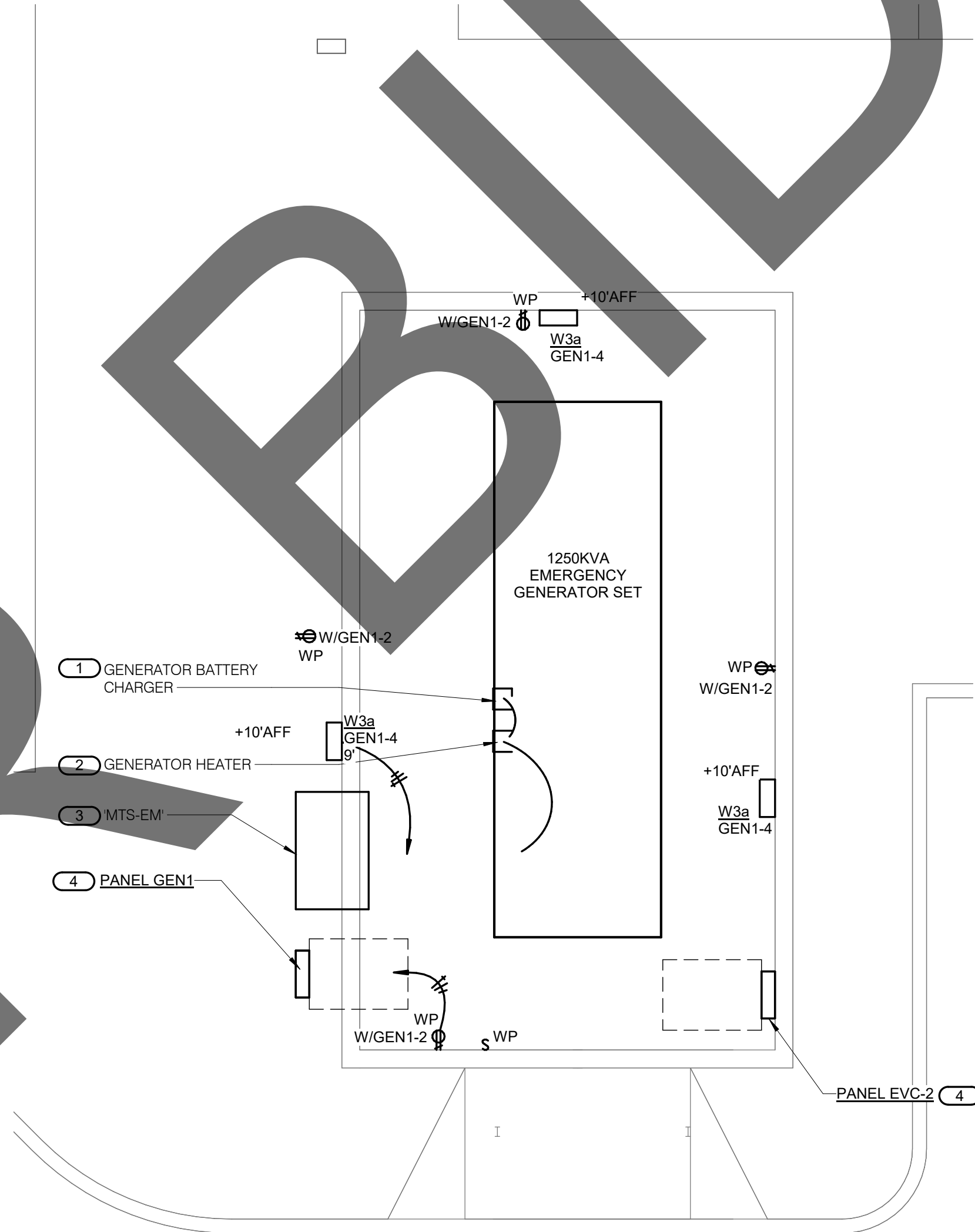
2 MEDICAL CLINIC ELECTRICAL ROOM ENLARGED PLAN
1/4" = 1'-0"



3 CAT & OTHER ANIMALS BLDG ELECTRICAL ROOM ENLARGED PLAN
1/4" = 1'-0"



4 SUPPORT BLDG ELECTRICAL ROOM ENLARGED PLAN
1/4" = 1'-0"



5 GENERATOR YARD ENLARGED PLAN
1/4" = 1'-0"

KEY NOTES: #

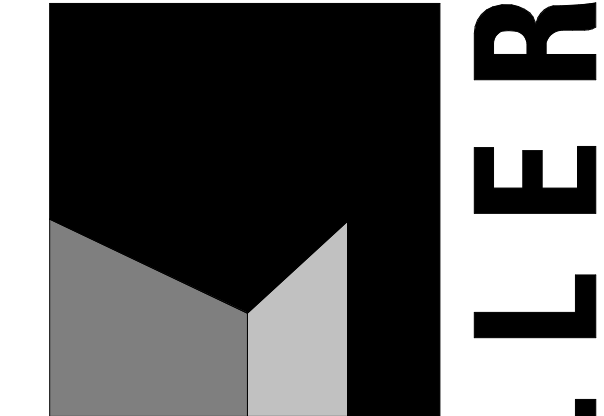
1. MAKE CONNECTION TO GENERATOR BATTERY CHARGER. COORDINATE WITH GENERATOR INSTALLER FOR CONNECTION REQUIREMENTS. FIELD VERIFY EXACT LOCATION.
2. MAKE CONNECTION TO GENERATOR HEATER. COORDINATE WITH GENERATOR INSTALLER FOR CONNECTION REQUIREMENTS. FIELD VERIFY EXACT LOCATION.
3. REFER TO SINGLE LINE DIAGRAM SHEETS E-101 AND E-102 FOR 'MTS-EM' FEEDER SIZE, QUANTITIES AND CONNECTION DETAILS. FIELD VERIFY EXACT LOCATION.
4. REFER TO SINGLE LINE DIAGRAM SHEETS E-101 AND E-102 FOR PANEL FEEDER SIZE AND QUANTITIES. FIELD VERIFY EXACT LOCATION.

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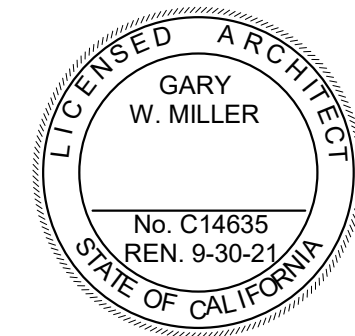
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sheet name

ELECTRICAL
ENLARGED PLANS

sheet number

E-400

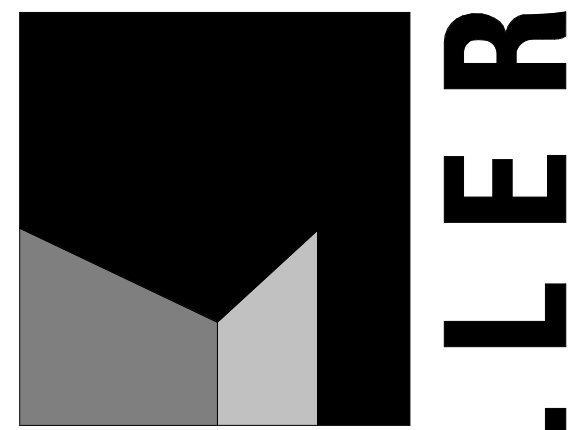
Sheet Of Sheets

GENERAL NOTES

1. COORDINATE WITH CIVIL DRAWINGS FOR LOCATIONS OF NEW UTILITIES PRIOR TO INSTALLATION OF UNDERGROUND DUCT BANKS AND PULL BOXES.

KEYNOTES:

1. REFER TO SINGLE LINE DIAGRAM SHEET E-101, AND E-102 FOR FEEDER CONDUIT AND WIRE SIZES. FIELD VERIFY EXACT LOCATION.
2. NEW ELECTRIC VEHICLE CHARGING STATIONS (EVCS) CONDUIT TO BE TERMINATED ON THE TOP OF THE CURB 4" ABOVE GRADE. MOUNT THE NEW CONDUIT ON TOP OF THE CONDUIT AND MAKE CONNECTION.
3. COORDINATE WITH EVCS INSTALLATION GUIDE FOR CONNECTION DETAILS. FIELD VERIFY EXACT LOCATION.
4. UNDERGROUND CONDUITS FOR PANELS 'DLM1' THRU 'DLM7'.
5. UNDERGROUND CONDUIT FOR PANEL 'EVC-2'.
6. UNDERGROUND CONDUIT FOR PANEL 'DP-SU'.
7. UNDERGROUND SPARE CONDUITS, (2/3" AND (2/2" WITH PULL STRINGS.
8. UNDERGROUND CONDUIT FOR PANEL 'EVC-2'.
9. UNDERGROUND CONDUIT FOR PANEL 'DP-UH1'.
10. UNDERGROUND CONDUITS FOR PANEL 'GEN1' AND 'MTS-EM'.
11. PROVIDE 15A/2P WP DISCONNECT SWITCH ADJACENT TO GATE OPENER, MAKE CONNECTION TO GATE OPENER CONTROL PANEL. COORDINATE WITH GATE OPENER INSTALLER FOR CONNECTION DETAILS. FIELD VERIFY EXACT LOCATION.
12. ROUTE 1" PVC SCHED 40-44612, 11#126 UNDERGROUND. FIELD VERIFY EXACT LOCATION.
13. PROVIDE 10X12" PRECAST SLAB BOX FOR 3 PHASE PAD-MOUNTED TRANSFORMER PER SEC REQUIREMENT. REFER TO 3E-302 FOR DETAIL.
14. TYPICAL LEVEL 2 (AC) EVCS 50A DUAL PORT PEDESTAL. (CHARGEPOINT AC COMMERCIAL STATION 50a STANDARD).



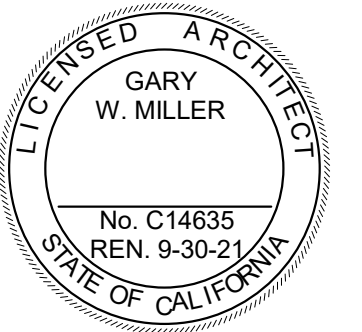
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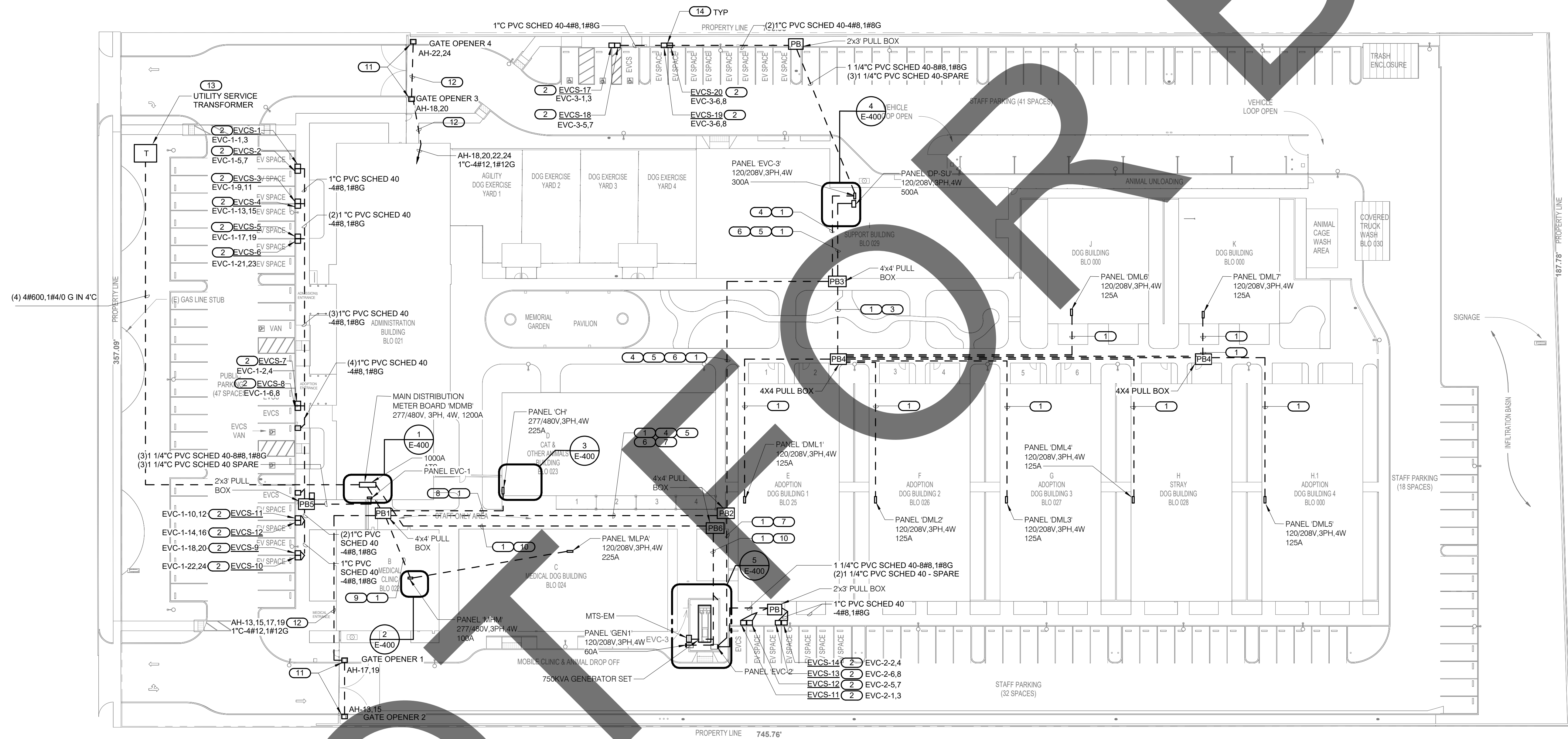


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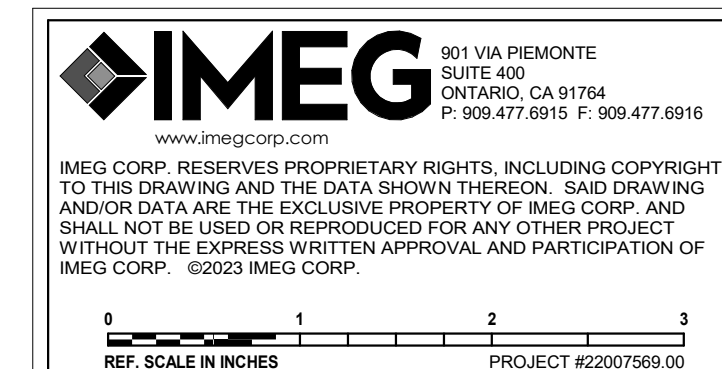
sheet name

POWER SITE PLAN

sheet number

ES-101

Sheet Of Sheets



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LIGHTING SEQUENCE OF OPERATION:

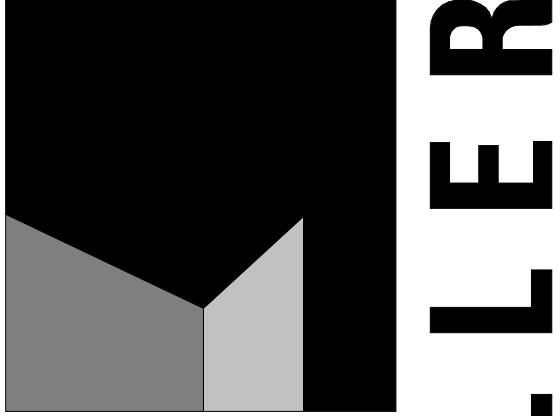
PLAIN ID	LIGHTING SWITCHED
{LS1}	SEQUENCE: PHOTO CELL MOTION SENSOR PROVIDERS IN THIS AREA. ON: LIGHTING TURN ON VIA PHOTO CELL MOTION SENSOR. ADJUST: AUTOMATIC SCHEDULING CONTROL SHALL BE CAPABLE OF REDUCING OUTDOOR LIGHTING POWER BY AT LEAST 50% AND NOMORE THAN 90%, AND SEPARATELY CAPABLE OF TURN THE LIGHT OFF, DURING SCHEDULE UNOCCUPIED PERIODS. ON: LIGHTING TURN OFF VIA PHOTO CELL MOTION SENSOR.

GENERAL NOTES:

- A. COORDINATE WITH AS101 FOR EXACT LOCATION OF SITE LIGHT FIXTURES. FIELD ADJUST ANY LIGHT TO AVOID CONFLICT.
B. REFER TO ELECTRICAL DETAIL DRAWINGS FOR POLE MOUNTED LIGHT FIXTURES.
C. ALL POLE MOUNTED LIGHT FIXTURE SHALL BE MOUNTED AT +20'-0" AFF, UNLESS OTHERWISE NOTED.

KEYNOTES: #

1. RUN 2#8 & 1#10 GND IN 1'C WIRING AND CONDUIT.
2. RUN 2#10 & 1#10 GND IN 1'C WIRING AND CONDUIT.
3. RUN 2#12 & 1#12 GND IN 1'C WIRING AND CONDUIT.
4. TYPICAL 20' POLE LIGHT WITH PHOTOCELL MOTION SENSOR BUILT-IN.
5. PROVIDE AN ASTRONOMICAL TIME CLOCK FOR SIGNATE SHUT OFF CONTROL. COORDINATE WITH BUILDING MANAGEMENT FOR SCHEDULED SHUT OFF CONTROL.
6. 12X12X12 POLYMER CONCRETE HANDHOLE.



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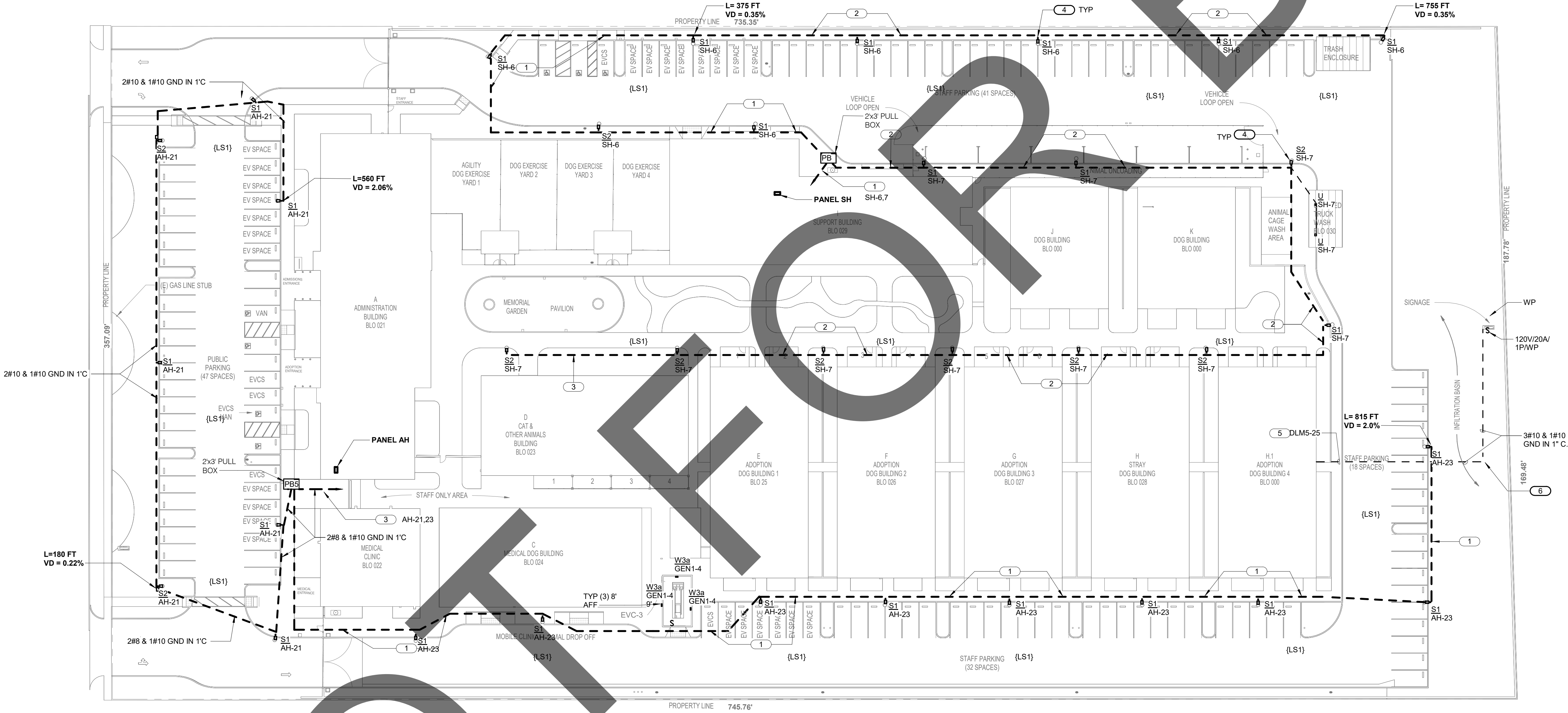
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LIGHTING SITE PLAN

sheet number

ES-102

Sheet Of Sheets



1

LIGHTING SITE PLAN

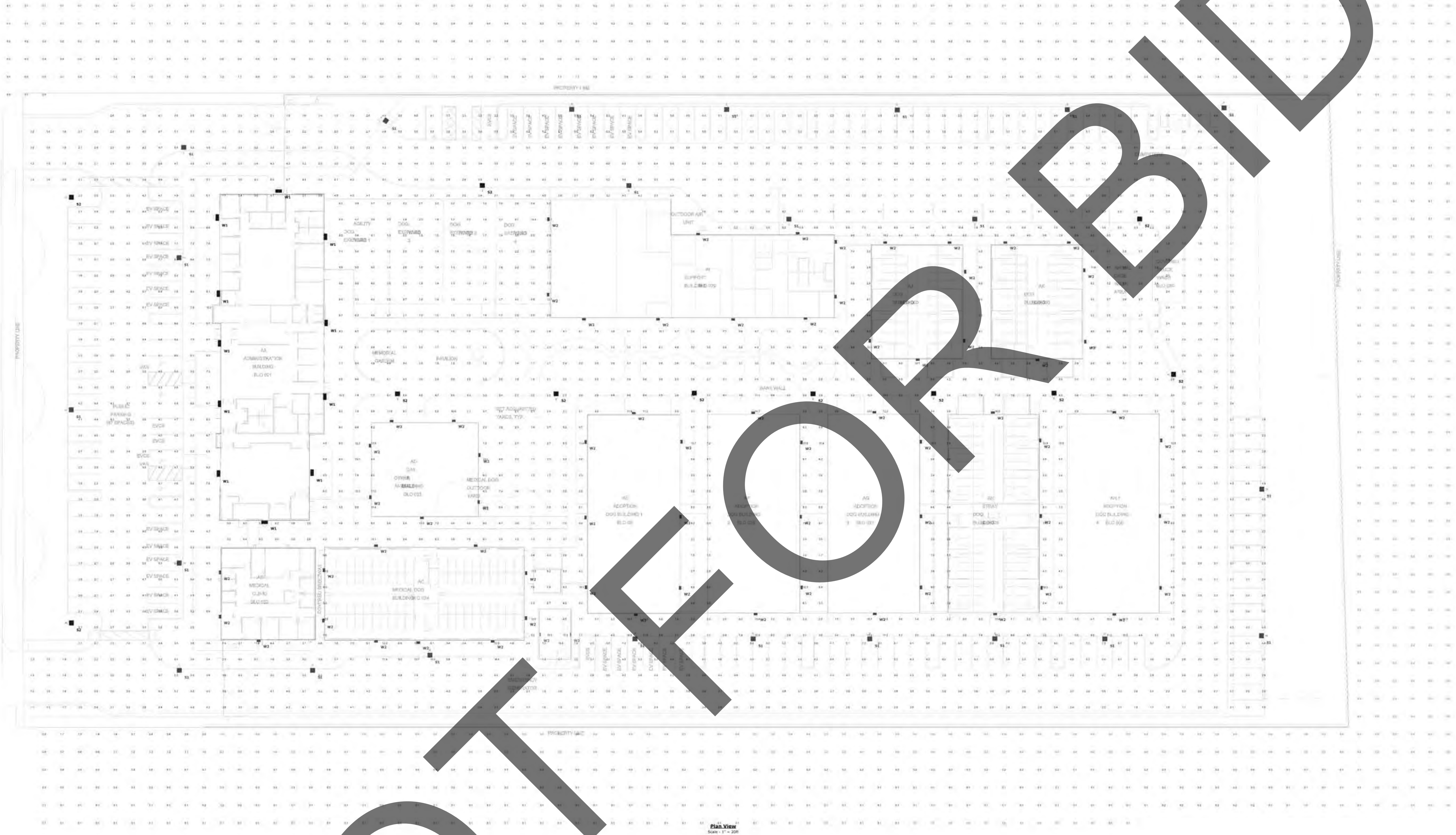
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Distances						
Location	Symbol	Avg	Max	Min	Max/Min	Avg/Min
DRIVEWAY / PARKING	+	4.0 FC	13.9 FC	2.1 FC	12.6:1	3.6
CORRIDOR	+	0.2 FC	2.6 FC	0.9 FC	N/A	N/A
WALKWAY	+	5.0 FC	18.3 FC	2.0 FC	18.5:1	6.0:1
COURTYARD						



Plan View
Scale: 1" = 20'

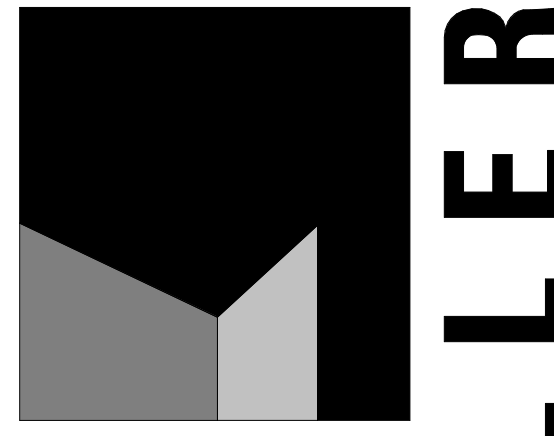
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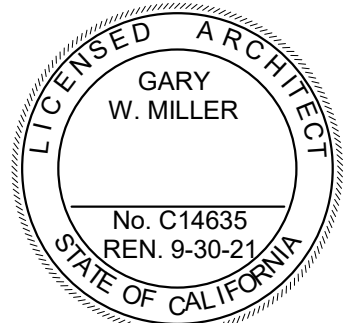
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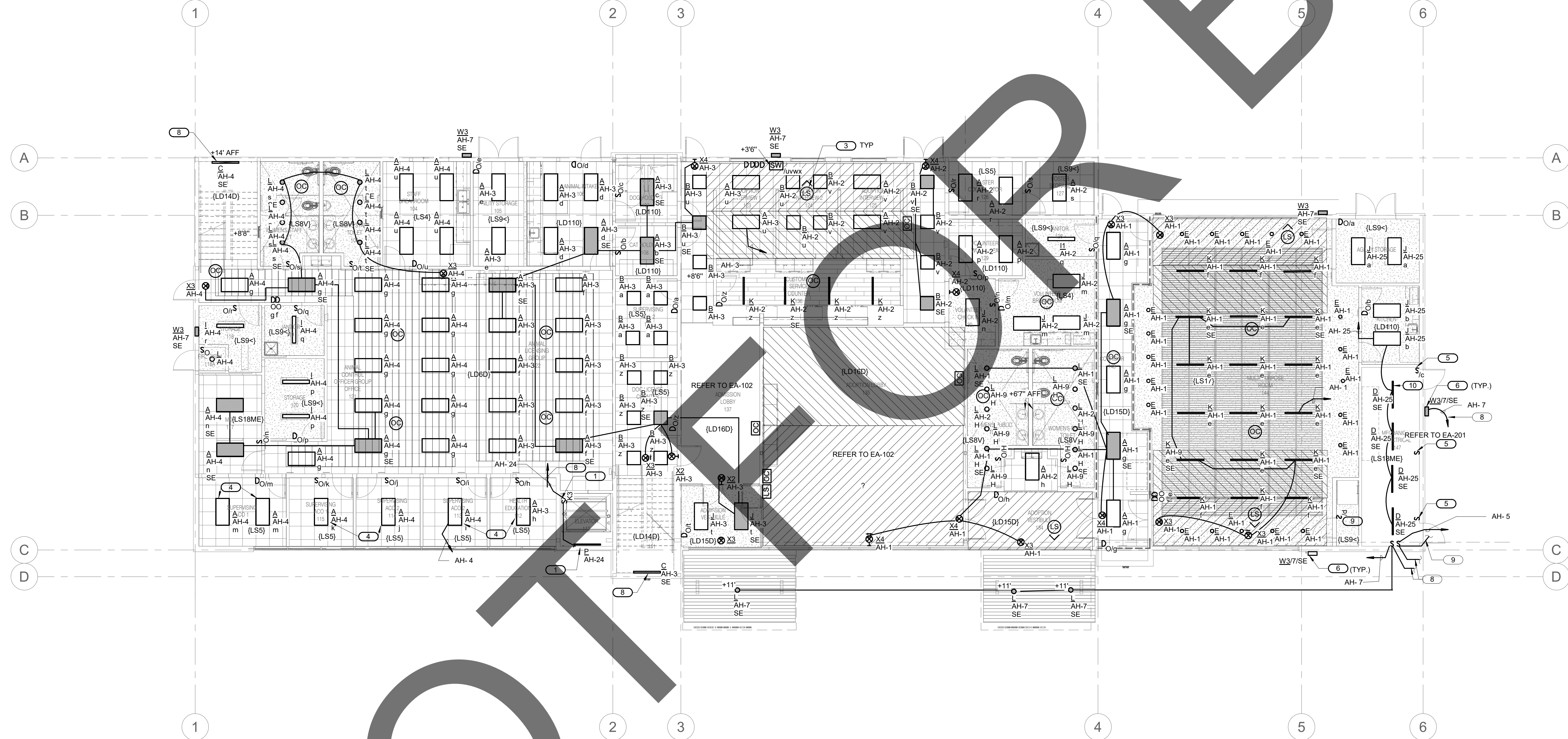
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SITE PLAN
PHOTOMETRICS

sheet number

ES-103

Sheet Of Sheets



GENERAL NOTES:

- PRIMARY DAYLIT ZONE. 600 SF OPENED AREA ZONE.
- SECONDARY DAYLIT ZONE.
- A. COORDINATE EXACT LOCATION OF EACH LIGHT FIXTURE WITH MECHANICAL PIPING, CONDUIT, HVAC GRILLES, ETC. FIELD ADJUST ANY LIGHT TO AVOID CONFLICT
- B. ALL ELECTRICAL CONTROL DEVICES SHALL BE MOUNTED AT A HEIGHT THAT IS ACCESSIBLE TO THE DISABLED IN ACCORDANCE WITH THE CALIFORNIA ACCESSIBILITY CODE. REFER TO ELECTRICAL SHEET EXXX FOR MOUNTING HEIGHTS OF ELECTRICAL CONTROL DEVICES.
- C. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT TYPE AND HEIGHT OF CEILING IN EACH ROOM. COORDINATE WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN OF ANY FIXTURES. COORDINATE ALL CONTROL JOINTS LOCATIONS WITH LIGHT FIXTURES PRIOR TO ANY ROUGH-IN OF FIXTURES
- D. PROVIDE CONDUIT AND WIRING AS REQUIRED TO MEET CIRCUITING SHOWN TO CONFORM TO NEC REQUIREMENTS. PROVIDE EQUIPMENT GROUND CONDUCTOR IN ALL RACEWAYS.
- E. REFER TO ELECTRICAL DETAIL DRAWINGS FOR MOUNTING HEIGHTS OF ALL WALL MOUNTED ELECTRICAL DEVICES.
- F. ALL LIGHT FIXTURE SHALL BE LOCATED AS +9'-0" AFF, OTHERWISE WILL BE NOTED.
- G. TYPICAL WALL MOUNTED EXIT LIGHT WILL BE MOUNTED AT 8' AFF.
- H. PROVIDE UNSWITCH CIRCUIT CONDUCTOR TO EXIT SIGN & EMERGENCY BATTERY UNIT.

KEYNOTES: #

1. WALL-MOUNTED LIGHTING FIXTURE IS LOCATED IN THE ELEVATOR ELEVATION PIT.
2. WALL MOUNTED 3 WAY SWITCH LOCATED IN THE ELEVATOR PIT. PROVIDE WIRING CONNECTION TO ELEVATOR HOISTWAY 3 WAY SWITCH ON LEVEL 2.
3. THREE ZONE CEILING DAYLIGHT LEVEL SENSOR IS MOUNTED AT CEILING.
4. ALL PENDANT MOUNTED LIGHT FIXTURE AT ELECTRICAL ROOM WILL BE MOUNTED AT CEILING, THE BOTTOM OF FIXTURE SHALL BE AT 10' AFF.
5. PROVIDE 3 WAYS SWITCH.
6. ALL TYPICAL EXTERIOR WALPACK ON THE 1ST FLOOR SHALL MOUNT AT +12 AFF.
7. DIMMABLE WALL CONTROLL STATION TO CONTROL LIGHTING IN THE OPEN AREA ZONE.
8. PROVIDE AN ASTRONOMICAL TIME CLOCK FOR SHUT OFF CONTROLL.
9. TO SECOND FLOOR CANOPY ROUND DOWNLIGHT CIRCUIT AH-5.



ADMINISTRATION BUILDING LIGHTING FIRST FLOOR PLAN

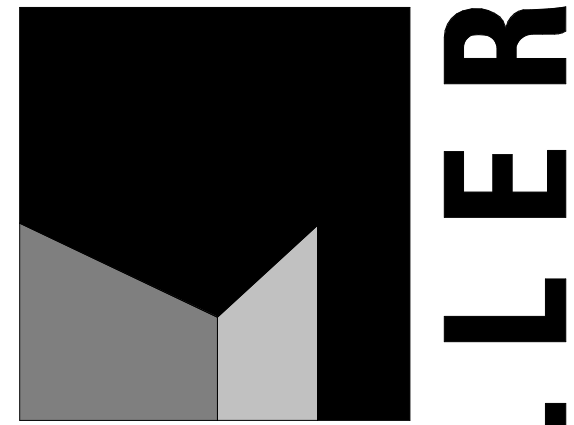
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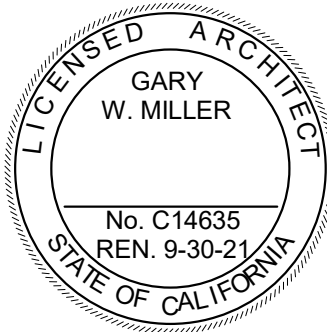
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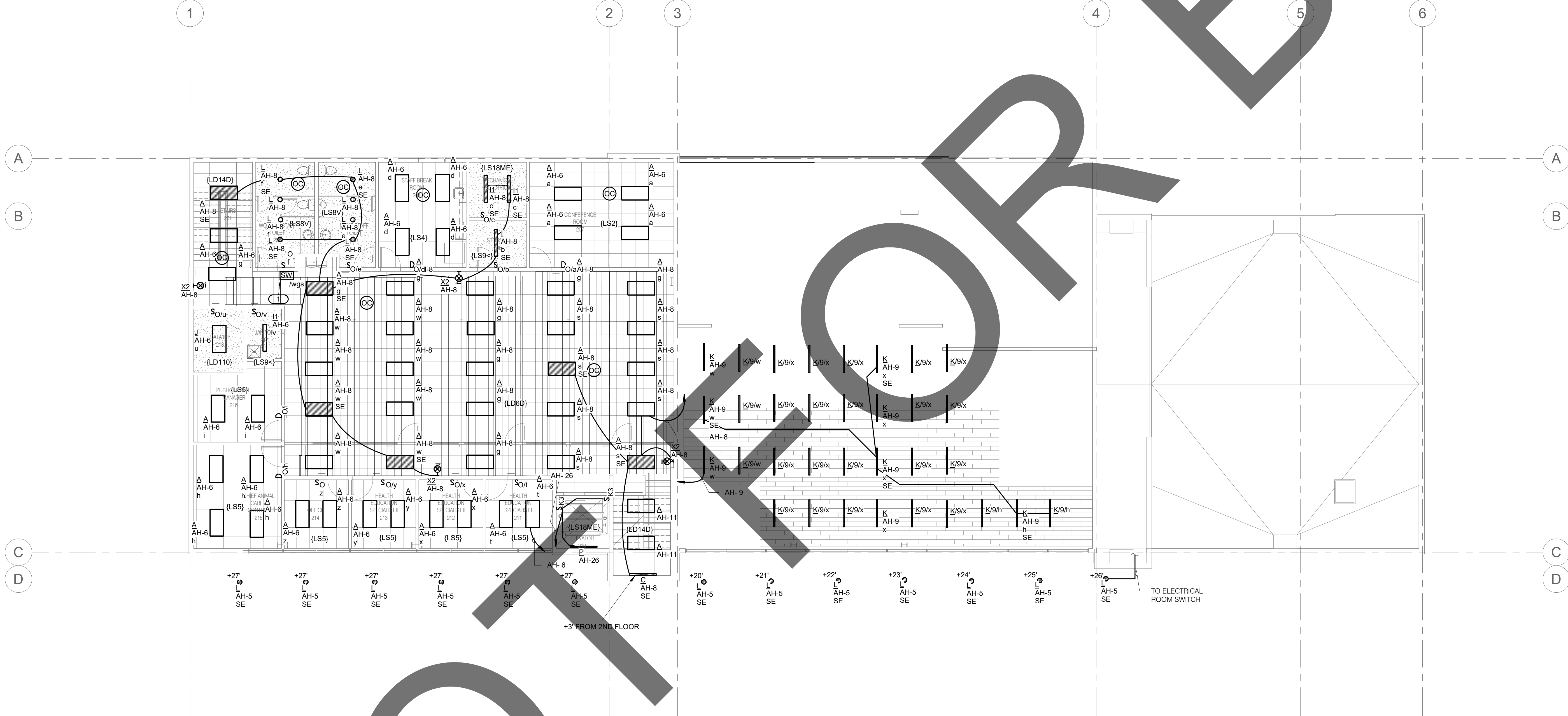
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ADMINISTRATION
BUILDING LIGHTING
FIRST FLOOR PLAN

sheet number

EA-101

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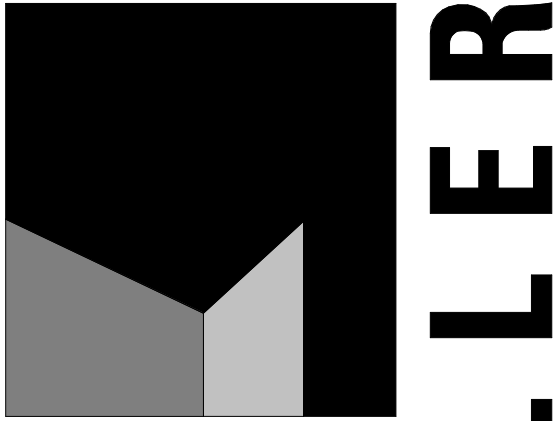


GENERAL NOTES:

- 600 SF OPENED AREA ZONE.
- A. COORDINATE EXACT LOCATION OF EACH LIGHT FIXTURE WITH MECHANICAL PIPING, CONDUIT, HVAC GRILLES, ETC. FIELD ADJUST ANY LIGHT TO AVOID CONFLICT
- B. ALL ELECTRICAL CONTROL DEVICES SHALL BE MOUNTED AT A HEIGHT THAT IS ACCESSIBLE TO THE DISABLED IN ACCORDANCE WITH THE CALIFORNIA ACCESSIBILITY CODE. REFER TO ELECTRICAL SHEET EXXX FOR MOUNTING HEIGHTS OF ELECTRICAL CONTROL DEVICES.
- C. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT TYPE AND HEIGHT OF CEILINGS IN EACH ROOM. COORDINATE WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN OF ANY FIXTURES. COORDINATE ALL CONTROL JOINTS LOCATIONS WITH LIGHT FIXTURES PRIOR TO ANY ROUGH-IN OF FIXTURES
- D. PROVIDE CONDUIT AND WIRING AS REQUIRED TO MEET CIRCUITING SHOWN TO CONFORM TO NEC REQUIREMENTS. PROVIDE EQUIPMENT GROUND CONDUCTOR IN ALL RACEWAYS.
- E. REFER TO ELECTRICAL DETAIL DRAWINGS FOR MOUNTING HEIGHTS OF ALL WALL MOUNTED ELECTRICAL DEVICES.
- F. ALL LIGHT FIXTURE SHALL BE LOCATED AS 4'-0" AFF, OTHERWISE WILL BE NOTED.
- G. ALL LIGHT FIXTURE TYPE K WILL BE MOUNTED AT CEILING. COORDINATE WITH AA104 FOR ELEVATION DETAIL.

KEYNOTES: #

1. DIMMABLE WALL CONTROLL STATION TO CONTROL LIGHTING IN THE OPEN AREA ZONE.
2. MECHANICAL MAINTENANCE WALL MOUNTED TRACKING LIGHT IS MOUNTED AT 8' AFF.
3. ELEVATOR HOISTWAY LIGHT AND 3 WAY SWITCH. CONNECT TO TOP OF HOISTWAY WHERE ELEVATOR MOTOR IS.



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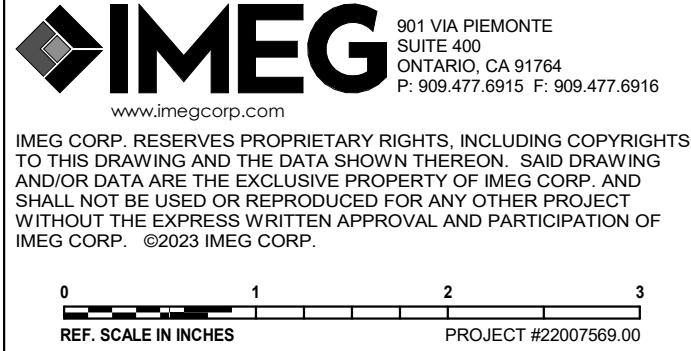
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ADMINISTRATION
BUILDING LIGHTING
SECOND FLOOR
PLAN

sheet number

EA-102

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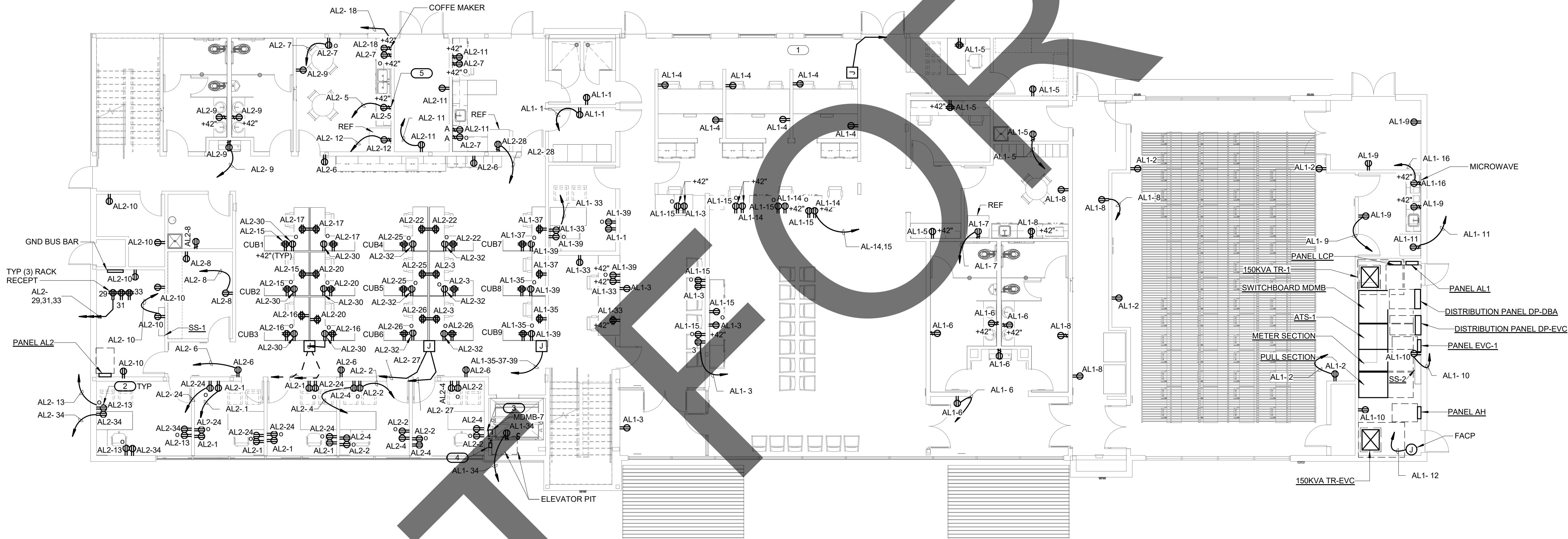


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ADMINISTRATION BUILDING LIGHTING SECOND FLOOR PLAN

1/8" = 1'-0"

AL1-4



GENERAL NOTES

- ALL RECEPTACLES ON COMMON WALLS SHALL BE MOUNTED AT 18" AFF
- WHERE RECEPTACLES ARE INSTALLED IN MODULAR FURNITURE IN OPAN OFFICE AREAS, PROVIDE MARKING FOR CONTROLLED RECEPTACLES TO SAPARATE THEM FROM UNCONTROLLED RECEPTACLE.
- ALPHABET A STANDS FOR HEIGHT MOUNTED AT +12" FROM WORK COUNTER SURFACE TO THE CENTER OF OBJECT.
- ALL RECEPTACLE OUTLET IN THE LOBBY AND BREAKROOM AREA SHALL BE TAMPER-RESISTANT RECEPTACLES TYPE.
- ELECTRICAL ROOM WILL COMPLY WITH CEC 110.26(C)(2) AND CEC 110.26(C)(3)
- REFER TO T-203 & T-400 FOR RACK RECEPTACLE ELEVATION AND LOCATION FOR INSTALLING.
- PROVIDE 120V 20A JUNCTION BOX FOR FIRE ALARM BELL. HOME RUN TO AVAILABLE 20A CIRCUIT BREAKER AT 120/208V PANEL. COORDINATE WITH FIRE ALARM FOR EXACT LOCATION AND ELEVATION.

KEYNOTES:

- DASHED LINE CONDUIT DENOTES BELOW THE FLOOR.
- PROVIDE 120V SPLITWIRED QUAD WITH ONE CONTROLLED AND ONE CONTROLLED RECEPTACLE.
- ELEVATOR POWER DISCONNECT.
- ELEVATOR CAB LIGHT.
- RECEPTACLE FOR MICROWAVE. COORDINATE TO ARCHITECTURAL DRAWING FOR LOCATION.



1

ADMINISTRATION BUILDING POWER FIRST FLOOR PLAN

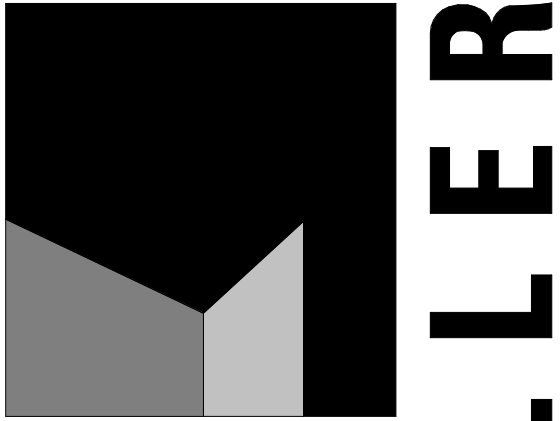
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initials	date	phase

revisions/addenda

#	Date	Comment
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ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number: 1227
Drawn By: Author
Checked By: PS
Issue Date: 05/17/24

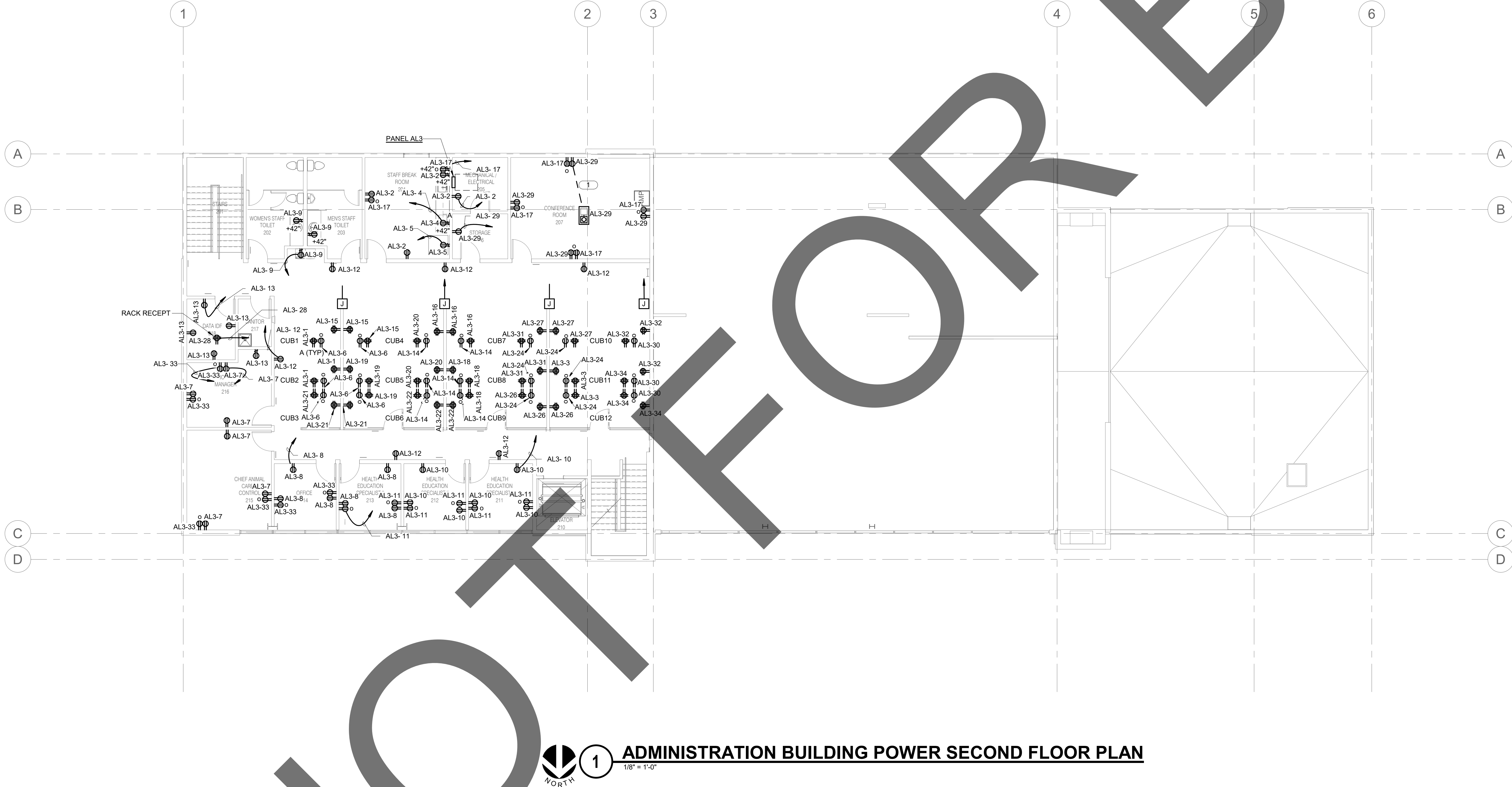
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ADMINISTRATION
BUILDING POWER
FIRST FLOOR PLAN

sheet number

EA-201

Sheet Of Sheets



GENERAL NOTES:

- A. ALL RECEPTACLES ON COMMON WALLS SHALL BE MOUNTED AT 18" AFF. OTHERWISE WILL BE NOTED
- B. ALPHABET A STANDS FOR HEIGHT MOUNTED AT +12" FROM WORK COUNTER SURFACE TO THE CENTER OF OBJECT.
- C. ALL RECEPTACLE OUTLET IN THE BREAKROOM AREA SHALL BE TAMPER-RESISTANT RECEPTACLES TYPE.
- D. ELECTRICAL ROOM WILL COMPLY WITH CEC 110.26(C)(2) AND CEC 110.28(C)(3).
- E. REFER TO T-203 & T-400 FOR RACK RECEPTACLE ELEVATION AND LOCATION FOR INSTALLING.
- F. PROVIDE 120V 20A JUNCTION BOX FOR FIRE ALARM BELL. HOME RUN TO AVAILABLE 20A CIRCUIT BREAKER AT 120/208V PANEL. COORDINATE WITH FIRE ALARM FOR EXACT LOCATION AND ELEVATION.

KEYNOTES: (#

- 1. DASHED LINE CONDUIT DENOTES BELOW THE FLOOR.
- 2. TYPICAL E-CONNECTION STANDS FOR ELECTRICAL POWER CONNECT POINT FROM LOADS TO ELECTRICAL EQUIPMENT.



1

ADMINISTRATION BUILDING POWER SECOND FLOOR PLAN

1/8" = 1'-0"



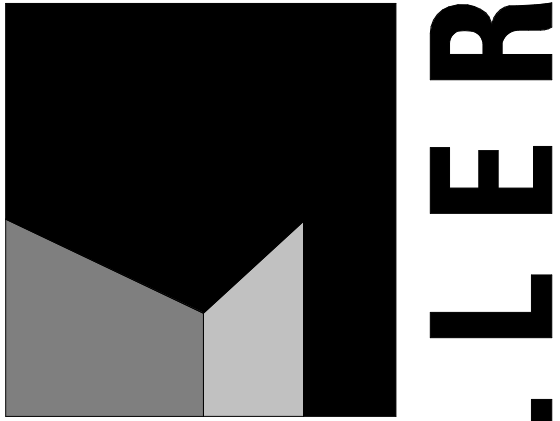
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project information

Project Number: 1227
Drawn By: Author
Checked By: PS
Issue Date: 05/17/24

sheet name

ADMINISTRATION
BUILDING POWER
SECOND FLOOR
PLAN

sheet number

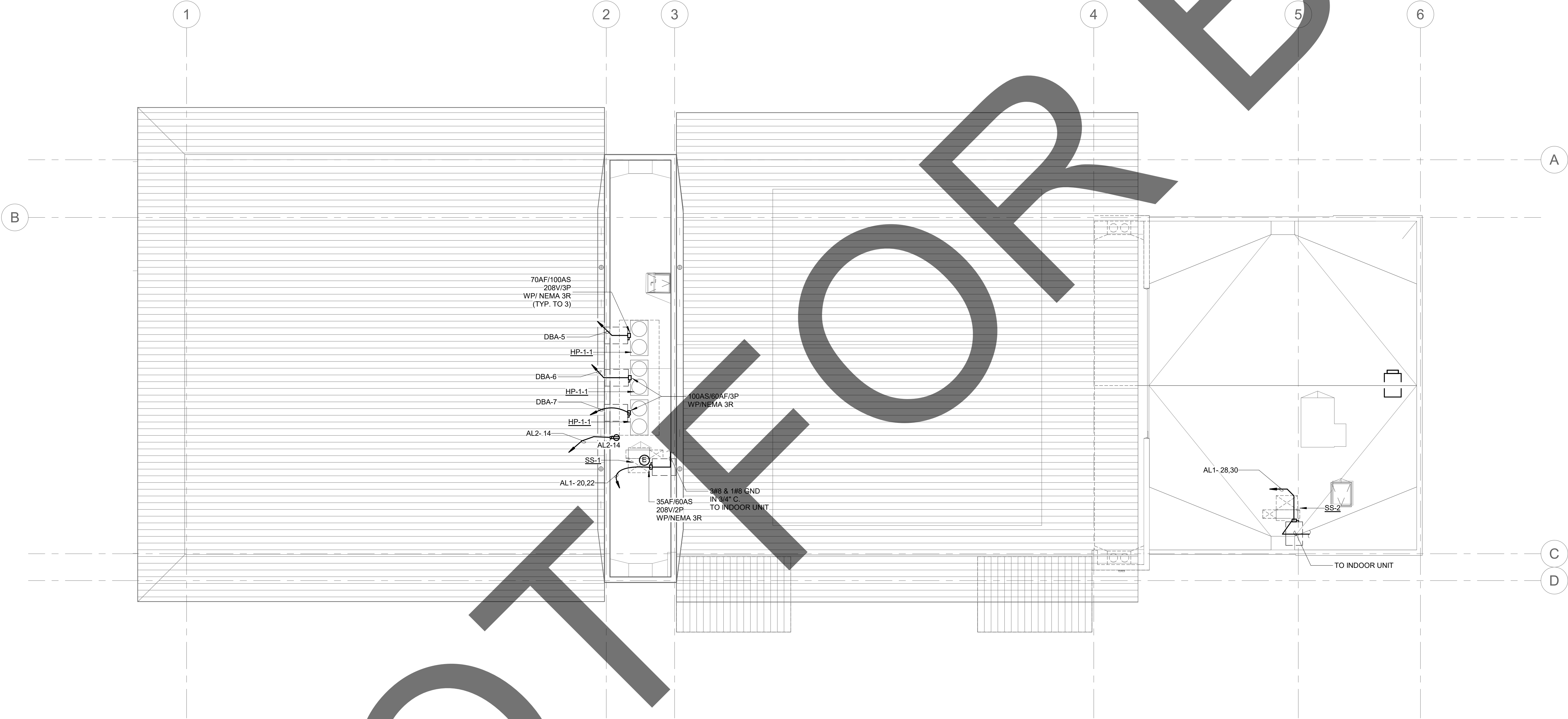
EA-202

GENERAL NOTES

- A. ALL RECEPTACLES ON COMMON WALLS SHALL BE MOUNTED AT 18" AFF
- B. ALL EXTERIOR RECEPTACLE AND DISCONNECT SWITCH ON ROOF PLAN SHALL BE WEATHER ROOF AND GFCI RECEPTACLE TYPE.
- C. REFER TO ES-100 FOR HVAC UNITS SOURCE CIRCUIT NUMBER WIRE AND RACEWAY SIZE.

KEYNOTES: (#

1. PROVIDE 240V/2P/25A TOGGLE SWITCH WEATHERPROOF RATED FOR WATER HEATER. COORDINATE WITH PLUMPING FOR INSTALLING LOCATION.
2. TYPICAL E-CONNECTION STANDS FOR ELECTRICAL POWER CONNECT POINT FROM LOADS TO ELECTRICAL EQUIPMENT.
3. CONTINUATION TO OUTDOOR UNIT.



1

ADMINISTRATION BUILDING POWER ROOF PLAN

1/8" = 1'-0"



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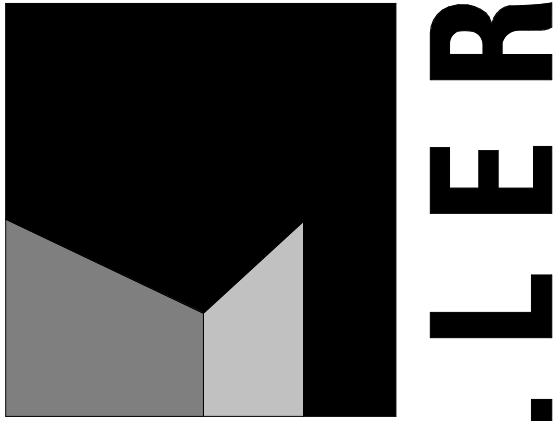
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Issue Date:	05/17/24

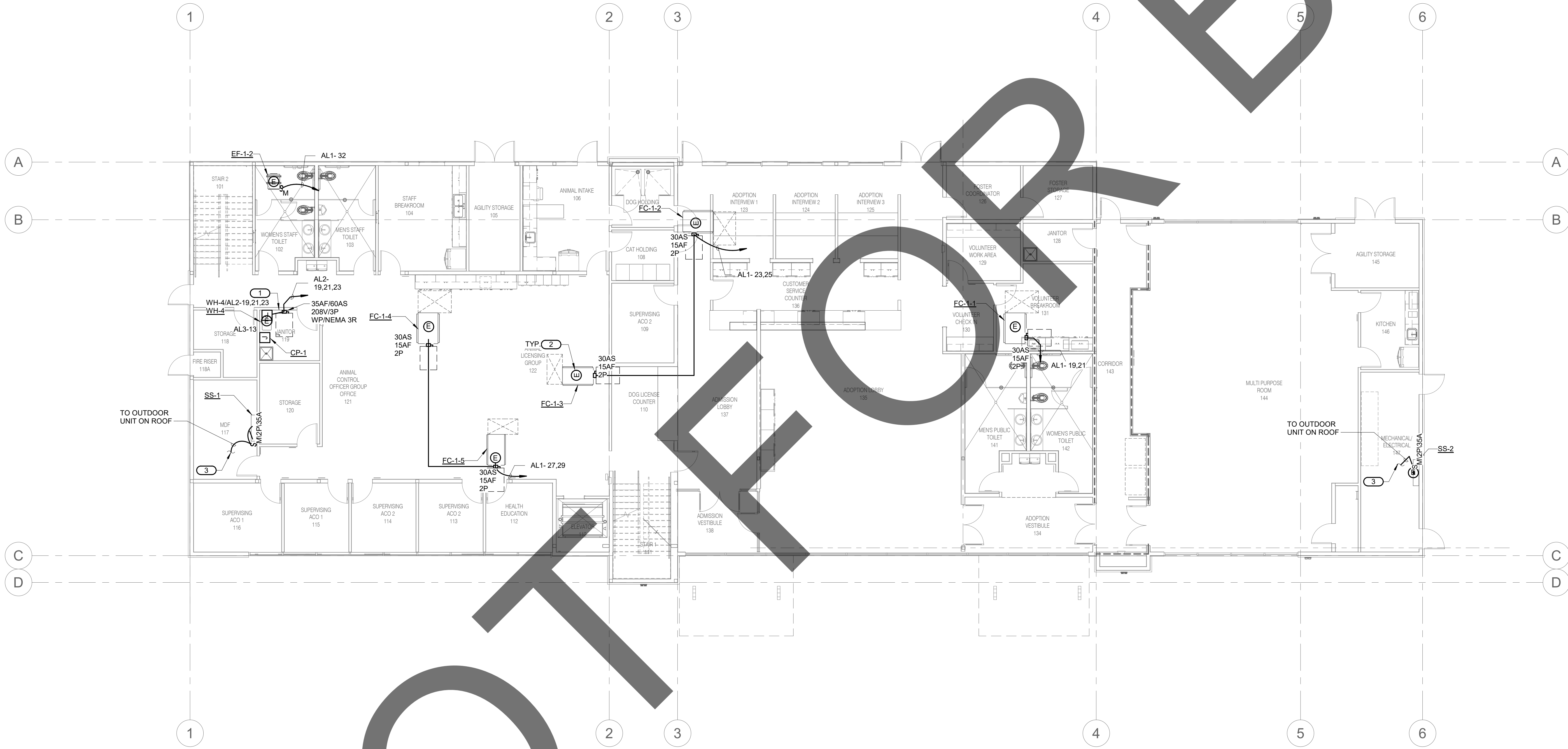
sheet name

ADMINISTRATION
BUILDING POWER
ROOF PLAN

sheet number

EA-203

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GENERAL NOTES

- A. MOUNT EQUIPMENT DISCONNECT SWITCH ADJACENT TO MECHANICAL EQUIPMENT IN ACCESSIBLE CEILING SPACE. FIELD VERIFY EXACT LOCATION.
- B. REFER TO ES-100 FOR HVAC UNITS SOURCE CIRCUIT NUMBER WIRE AND RACEWAY SIZE.

KEYNOTES: #

1. PROVIDE 240V/2P/25A TOGGLE SWITCH WEATHERPROOF RATED FOR WATER HEATER. COORDINATE WITH PLUMBING FOR INSTALLING LOCATION.
2. TYPICAL E-CONNECTION STANDS FOR ELECTRICAL POWER CONNECT POINT FROM LOADS TO ELECTRICAL EQUIPMENT.
3. REFER TO SHEET EA-203 FOR OUTDOOR UNIT LOCATION ON ROOF.



ADMINISTRATION BUILDING MECHANICAL EQUIPMENT POWER FIRST FLOOR PLAN

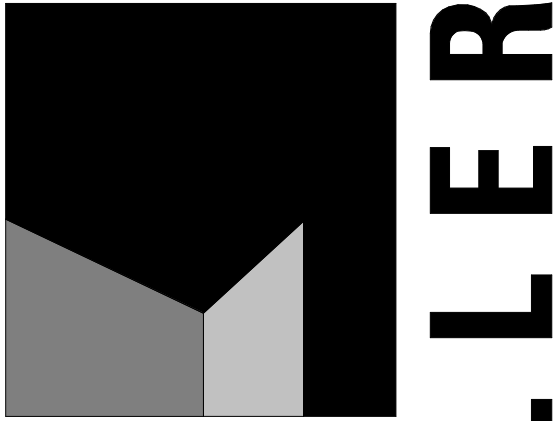
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#	Date	Comment
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project information

Project Number:	1227
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sheet name

ADMINISTRATION
BUILDING
MECHANICAL
EQUIPMENT POWER
FIRST FLOOR PLAN

sheet number

EA-211

Sheet Of Sheets

GENERAL NOTES

- A. MOUNT EQUIPMENT DISCONNECT SWITCH ADJACENT TO MECHANICAL EQUIPMENT IN ACCESSIBLE CEILING SPACE. FIELD VERIFY EXACT LOCATION.
- B. REFER TO ES-100 FOR HVAC UNITS SOURCE CIRCUIT NUMBER WIRE AND RACEWAY SIZE.

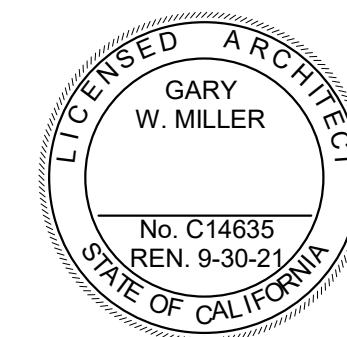
KEYNOTES:



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revisions/addenda

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Project Number:	1227
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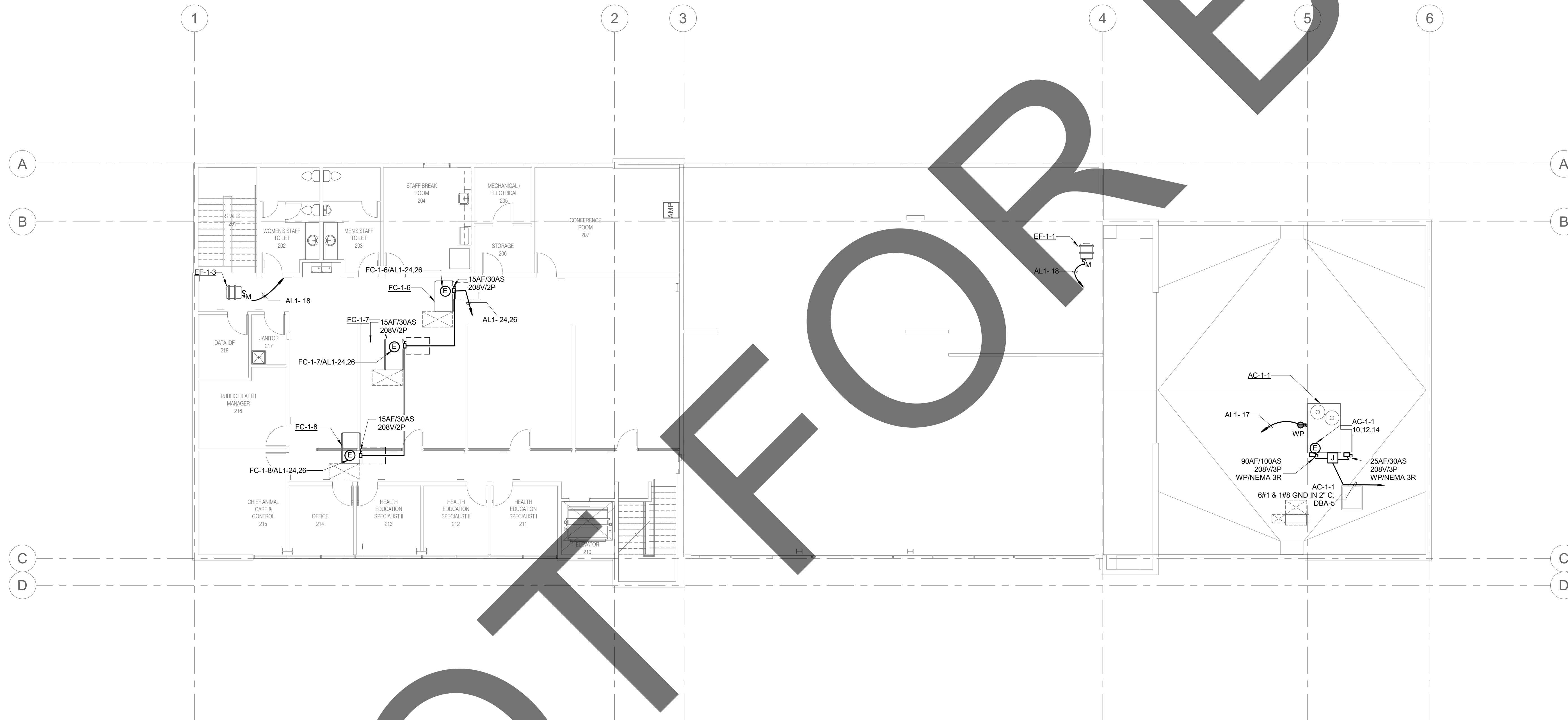
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ADMINISTRATION
BUILDING
MECHANICAL
EQUIPMENT POWER
SECOND FLOOR
PLAN

sheet number

EA-212

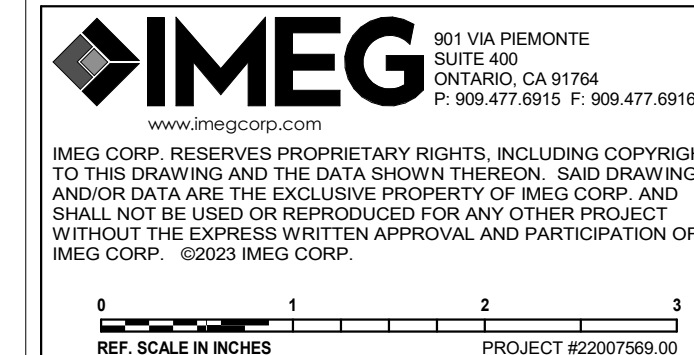
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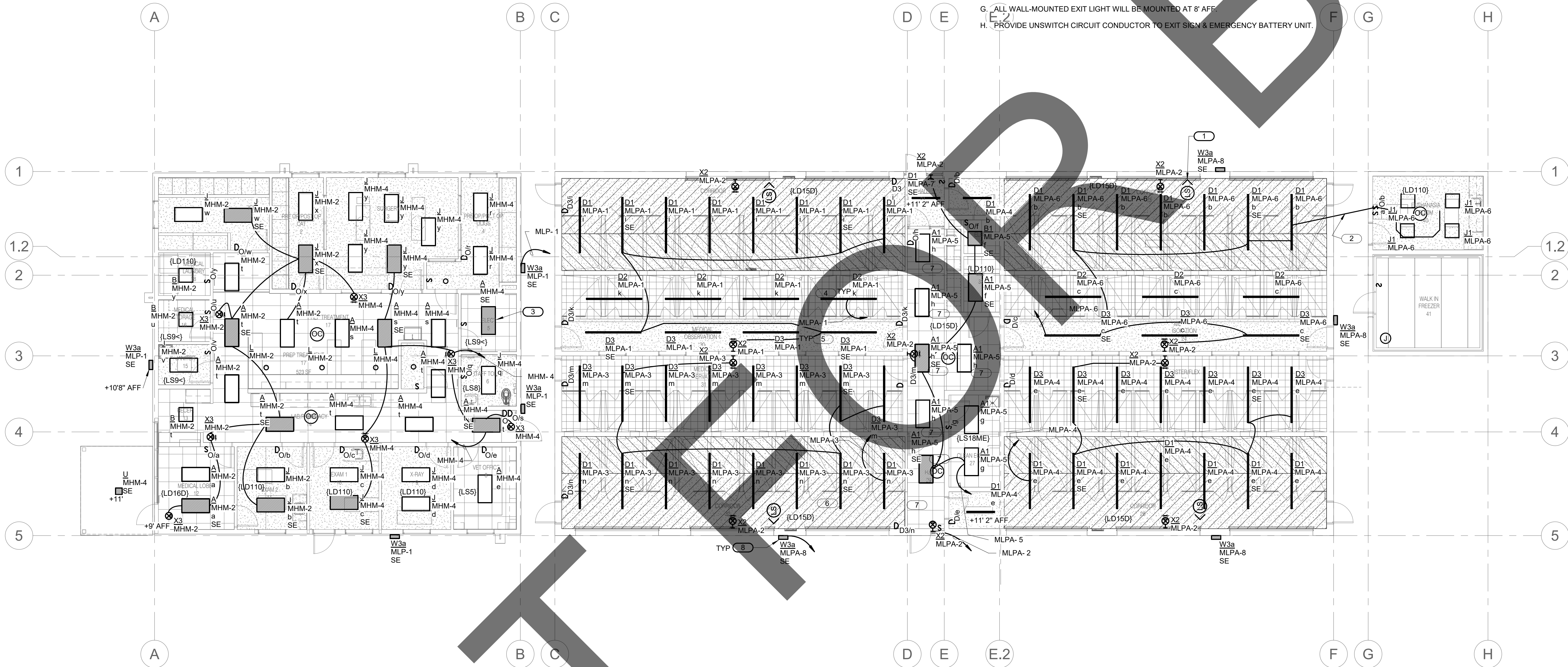
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ADMINISTRATION BUILDING MECHANICAL EQUIPMENT POWER SECOND FLOOR PLAN

1/8" = 1'-0"



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GENERAL NOTES:

- PRIMARY DAYLIT ZONE.
- SECONDARY DAYLIT ZONE.
- COORDINATE EXACT LOCATION OF EACH LIGHT FIXTURE WITH MECHANICAL PIPING, CONDUIT, HVAC GRILLES, ETC. FIELD ADJUST ANY LIGHT TO AVOID CONFLICT.
- ALL ELECTRICAL CONTROL DEVICES SHALL BE MOUNTED AT A HEIGHT THAT IS ACCESSIBLE TO THE DISABLED IN ACCORDANCE WITH THE CALIFORNIA ACCESSIBILITY CODE. REFER TO ELECTRICAL SHEET XXXX FOR MOUNTING HEIGHTS OF ELECTRICAL CONTROL DEVICES.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT TYPE AND HEIGHT OF CEILING IN EACH ROOM. COORDINATE WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN OF ANY FIXTURES. COORDINATE ALL CONTROL JOINTS LOCATIONS WITH LIGHT FIXTURES PRIOR TO ANY ROUGH-IN OF FIXTURES.
- PROVIDE CONDUIT AND WIRING AS REQUIRED TO MEET CIRCUITING SHOWN TO CONFORM TO NEC REQUIREMENTS. PROVIDE EQUIPMENT GROUND CONDUCTOR IN ALL RACEWAYS.
- REFER TO ELECTRICAL DETAIL DRAWINGS FOR MOUNTING HEIGHTS OF ALL WALL MOUNTED ELECTRICAL DEVICES.
- ALL LIGHT FIXTURE SHALL BE LOCATED AS +9'-0" AFF, OTHERWISE WILL BE NOTED.
- ALL WALL-MOUNTED EXIT LIGHT WILL BE MOUNTED AT 8' AFF.
- PROVIDE UNSWITCH CIRCUIT CONDUCTOR TO EXIT SIGN & EMERGENCY BATTERY UNIT.

KEYNOTES: #

- THREE ZONE CEILING DAYLIGHT LEVEL SENSOR IS MOUNTED AT CEILING.
- UNDERGROUND CONDUIT WITH WIRING.
- PROVIDE AN ASTRONOMICAL TIME CLOCK FOR SHUT OFF CONTROLL.
- TYPICAL TYPE D2 FIXTURE SHALL BE MOUNTED AT +11" AFF, TOTAL SUSPENSION CABLE LENGTH FROM CEILING TO THE FIXTURE SHALL BE 7' 0" LONG.
- TYPICAL TYPE D3 FIXTURE SHALL BE MOUNTED AT +11" AFF AT THE CEILING.
- TYPICAL TYPE D1 FIXTURE SHALL BE MOUNTED AT +11' AFF AT THE CEILING.
- TYPICAL LIGHT FIXTURE MOUNT AT 10' AFF.
- TYPICAL WALPACK WITH MOTION SENSOR FOR 8-15' MOUNTING HEIGHTS WITH PHOTOCELL PREPROGRAMMED FOR DUSK TO DAWN OPERATION MOUNTED AT +11' AFF.



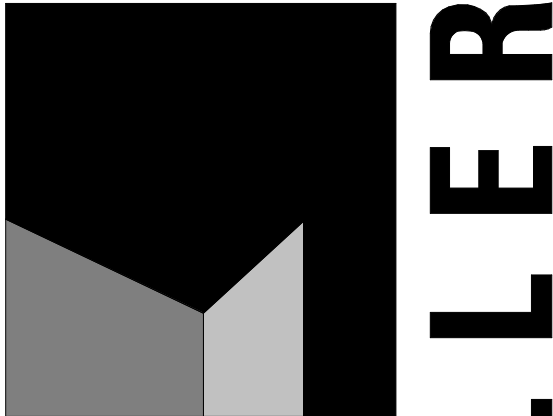
1 MEDICAL CLINIC LIGHTING FLOOR PLAN

1/8" = 1'-0"

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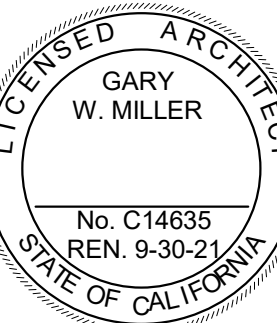
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revisions/addenda

#	Date	Comment
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ANIMAL CARE CENTER

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SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	PS
Issue Date:	05/17/24

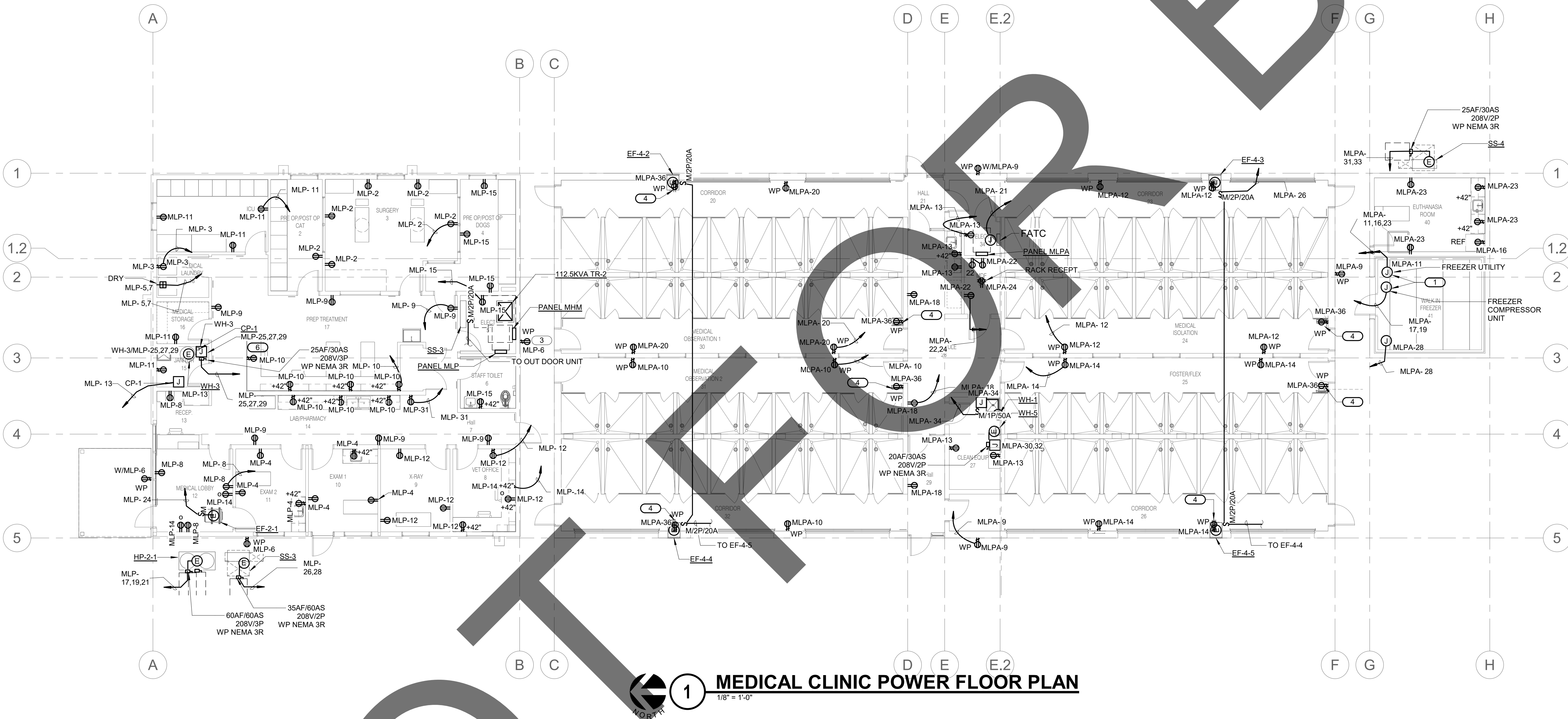
sheet name

MEDICAL CLINIC
LIGHTING FLOOR
PLAN

sheet number

EBC-101

Sheet Of Sheets



GENERAL NOTES

- A. ALL RECEPTACLES ON COMMON WALLS SHALL BE MOUNTED AT 18" AFF
- B. WHERE RECEPTACLES ARE INSTALLED IN MODULAR FURNITURE IN OPENED OFFICE AREAS, PROVIDE MARKING FOR CONTROLLED RECEPTACLES TO SAPARATE THEM FROM UNCONTROLLED RECEPTACLE.
- C. ALPHABET A STANDS FOR HEIGHT MOUNTED AT +12" FROM WORK COUNTER SURFACE TO THE CENTER OF OBJECT.
- D. ELECTRICAL ROOM WILL COMPLY WITH CEC 110.26(C)(2) AND CEC 110.26(C)(3).
- E. REFER TO ES-100 FOR HVAC UNITS SOURCE CIRCUIT NUMBERWIRE AND RACEWAY SIZE.
- F. REFER TO T-203 & T-400 FOR RACK RECEPTACLE ELEVATION AND LOCATION FOR INSTALLING.
- G. PROVIDE 120V 20A JUNCTION BOX FOR FIRE ALARM BELL. HOME RUN TO AVAILABLE 20A CIRCUIT BREAKER AT 120/208V PANEL. COORDINATE WITH FIRE ALARM FOR EXACT LOCATION AND ELEVATION.

KEYNOTES: (#)

- 1. COORDINATOR WITH FREEZER INSTALLER FOR POWER CONNECTIONS TO FREEZER COOLING AND LIGHTING EQUIPMENT. FIELD VERIFY EXACT LOCATION.
- 2. PROVIDE 120V SPLITWIRED QUAD WITH ONE CONTROLLED AND ONE CONTROLLED RECEPTACLE
- 3. MAKE CONNECTION TO MECHANICAL EQUIPMENT AS REQUIRED.
- 4. FOR PORTABLE POWER WASH EQUIPMENT.
- 5. RECEPTACLE FOR MICROWAVE. COORDINATE TO ARCHITECTURAL DRAWING FOR HEIGHT MOUNTED.
- 6. MAKE CONNECTION TO WATER HEATER

1 MEDICAL CLINIC POWER FLOOR PLAN

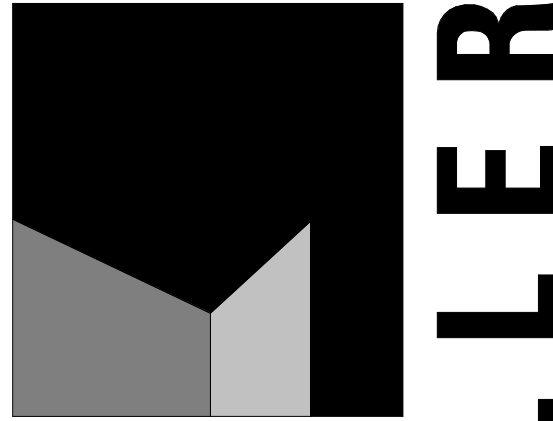
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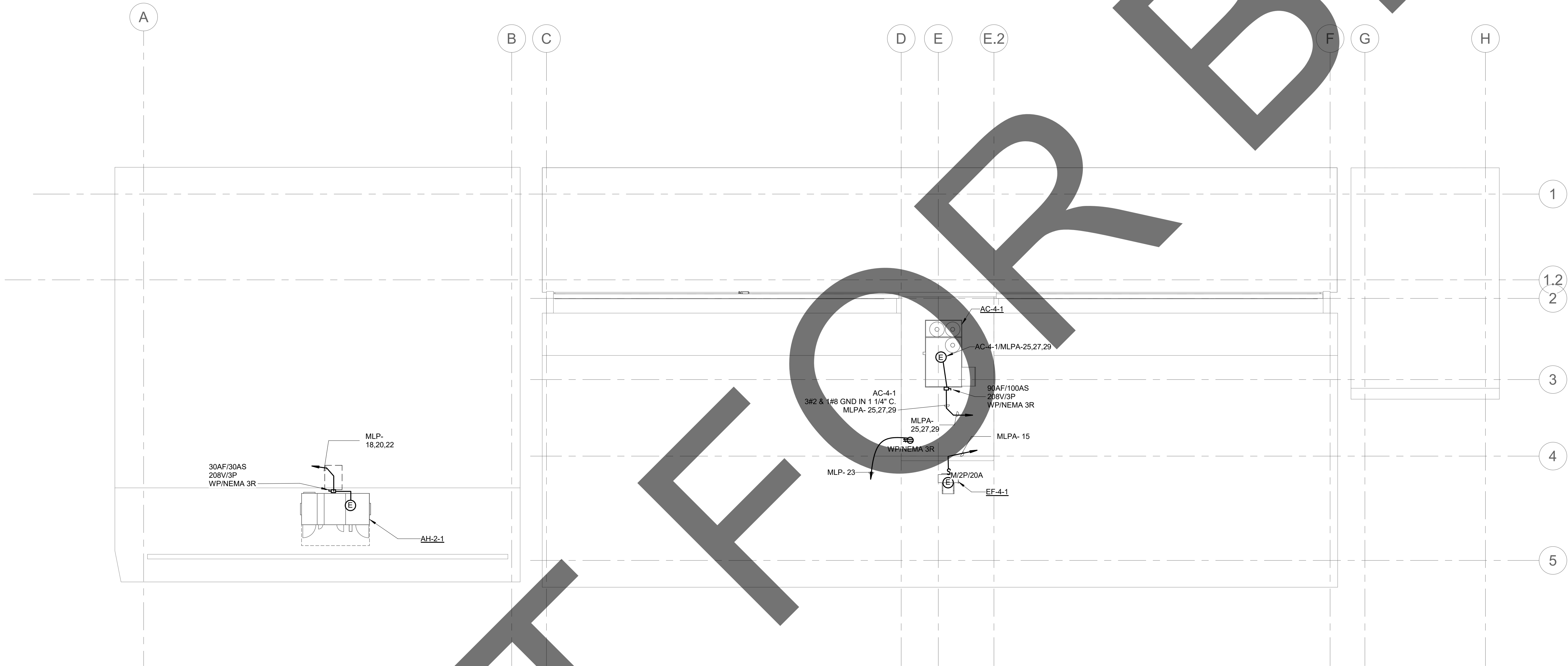
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Checked By:	PS
Issue Date:	05/17/24

sheet name

MEDICAL CLINIC
POWER FLOOR PLAN

sheet number

EBC-201



GENERAL NOTES

- A. REFER TO ES-100 FOR HVAC UNITS SOURCE CIRCUIT NUMBERWIRE AND RACEWAY SIZE.
- B. ALL ROOF RECEPTACLE SHALL BE GFCI, AND WEATHER PROOF TYPE.
- C. ALL ROOF DISCONNECT SWITCH SHALL BE WEATHER PROOF TYPE.



1

MEDICAL CLINIC POWER ROOF PLAN

1/8" = 1'-0"



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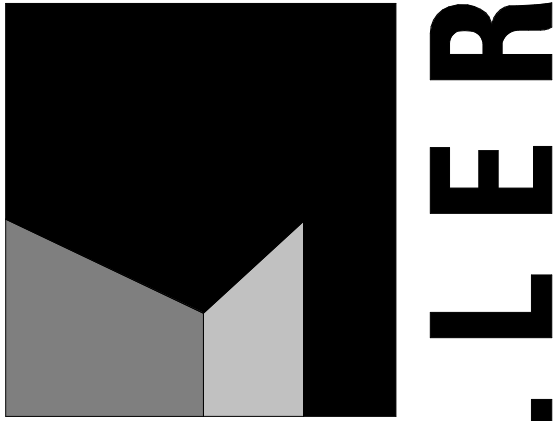
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Project Number:	1227
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MEDICAL CLINIC
POWER ROOF PLAN

sheet number

EBC-202

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