



YOLO COUNTY VETERINARY CLINIC

2640 East Gibson Road

YOLO COUNTY

00168

3/27/2025

CONSTRUCTION DOCUMENTS

NOTE:

A separate utilities permit will be required for Foundation, Water, Sewer, and Power connections.

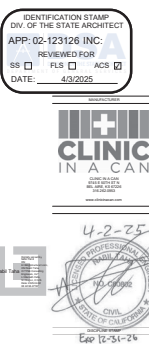
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Chris Rice
Date: 2025.05.22
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FOR ELECTRONIC APPROVALS: PLEASE PRINT YOUR PLANS
AND INSPECTION CARD AND HAVE THEM ON SITE FOR ALL
INSPECTIONS.

YOLO COUNTY BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE: APPROVED
SUBJECT TO FIELD INSPECTION

PERMIT ISSUANCE SHALL NOT BE CONSIDERED APPROVAL OF
ANY VIOLATION OF THE BUILDING CODE. ANY CHANGES TO
THE PLANS OR SCOPE OF WORK MUST BE SUBMITTED TO THE
BUILDING DIVISION AND APPROVED PRIOR TO INSPECTION.

LOCATION Yolo County Animal Services 2640 East Gibson Rd Woodland, CA 95776	
PROJECT INFORMATION PROJECT DESCRIPTION THE VETERINARY CLINIC IN A CAN IS A NEW CONSTRUCTION, RELOCATABLE VETERINARY CLINIC BUILT WITHIN ONE, 40 FOOT ISO SHIPPING CONTAINER. CLINIC TO BE PLACED ON EXISTING CONCRETE LOT ADJACENT TO EXISTING YOLO COUNTY ANIMAL SHELTER BUILDING. THIS UNIT WILL SERVE AS A WORKSTATION FOR YOLO COUNTY ANIMAL SHELTER EMPLOYEES. GROSS SQUARE FOOTAGE: 272 SF OCCUPANCY: BUSINESS GROUP B BUSINESS GROUP B OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, FOR OFFICE, PROFESSIONAL, OR SERVICE TYPE TRANSACTIONS, INCLUDING STORAGE OF RECORDS AND ACCOUNTS. BUSINESS OCCUPANCIES SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: ANIMAL HOSPITALS, KENNELS AND POUNDS TYPE OF CONSTRUCTION: V-B * PREFABRICATED SHIPPING CONTAINER WITH METAL STUDS/FINISHES ON INTERIOR * METAL STUD INFILL WALLS * METAL ROOFING AND PHOTOVOLTAIC PANELS ALLOWABLE BUILDING AREA: Type V-B, A ₁ = 9,000 x 2 = 18,000 SF MAX TOTAL 2 STORES * ACTUAL BUILDING AREA: 320 SF ALLOWABLE BUILDING HEIGHT: A ₁ = 40' 0" AND 2 STORES * ACTUAL HEIGHT = 34' * ACTUAL STORIES = 1 OCCUPANT LOAD: 3 OUTPATIENT AREA WITH OCCUPANT LOAD FACTOR OF 150 SF/FI OCCUPANT = OCCUPANT LOAD OF 1.78 PERSONS REQUESTING OCCUPANT LOAD TO BE 50 SF/FI OCCUPANT PER ROOM. SEE LIFE SAFETY PLAN.	
PROJECT TEAM OWNER YOLO COUNTY ANIMAL SHELTER 2640 East Gibson Rd WOODLAND, CA 95776 CONTACT: STEPHANIE AMATO EMAIL: STEPHANIE.AMATO@YOLOCOUNTY.GOV PHONE: (530) 868-3287 GENERAL CONTRACTOR CLINIC IN A CAN 3146 S 87TH ST BELLEVUE, WA 98003 CONTACT: MIKE WALKER/STEVE EMAIL: MIKE@CLINICINACAN.COM PHONE: (206) 362-9583 MEP ENGINEERS MONTWERY ENERGY GROUP 2448 Central Expressway, Suite 8 Yuba City, TX 75405 CONTACT: Mike Schubert EMAIL: mschubert@mepeg.com PHONE: (817) 255-4332 ENGINEER IN GENERAL RESPONSIBLE CHARGE PSE ENGINEERING Klamath Falls, OR 97601 CONTACT: Taha "Tah" Taha EMAIL: tah@pse-engineer.com PHONE: (541) 550-8300 STRUCTURAL ENGINEERS PSE ENGINEERING Klamath Falls, OR 97601 CONTACT: Taha "Tah" Taha EMAIL: tah@pse-engineer.com PHONE: (541) 550-8300	
ACCEPTANCE EVALUATION HVAC SYSTEM TESTING 1. VISUAL BUBBLE TESTING AT EACH CONNECTION. 2. SPECIAL HVAC BLUE SPRAY ON SOLUTION TO DETECT LEAKS. TESTING TO BE DONE BY CERTIFIED TECHNICIANS WATER SYSTEM TESTING 1. WATER AND AIR PRESSURE TESTS WILL BE PERFORMED. PRESSURE TEST SUPPLY LINES UP TO 80 PSI, IF ANY DROPS IN 60 MINUTES, IT IS REASSESSED. ELECTRICAL SYSTEM TESTING 1. WIRING CONNECTIONS WILL BE INSPECTED TO NEC STANDARDS 2. OUTLETS, LIGHT FIXTURES AND EMERGENCY LIGHTING WILL BE TESTED FOR FUNCTIONALITY. STRUCTURAL INTEGRITY TESTING 1. VISUAL INSPECTION OF WALLS, ROOF AND FLOORING FOR DAMAGE OR MISALIGNMENTS 2. DOOR AND WINDOW SEAL TESTS PERFORMED USING SMOKE PEN OR SIMILAR DEVICE TO DETECT AIR LEAKS EQUIPMENT TESTING 1. ALL EQUIPMENT WILL BE POWERED UP WITH PERFORMANCE TESTING AND CALIBRATION DONE IF NECESSARY.	
INDEX OF DRAWINGS 36 PAGES A0.00 COVER SHEET A1.00 - LIFE SAFETY PLAN A1.01 - LIFE SAFETY PLAN A1.10 - FRAMING MEPP PLANS A1.20 - FINISH FLOOR PLAN A1.30 - ROOF PLAN A2.00 - BUILDING ELEVATIONS A2.01 - INTERIOR ELEVATIONS A2.10 - BUILDING SECTIONS A4.00 - BUILDING DETAILS A4.11 - EQUIPMENT INSTALLATION DETAILS A4.12 - PROJECT MATERIAL SPECIFICATIONS A4.13 - PROJECT MATERIAL SPECIFICATIONS A5.00 - RAMP/LANDING PLAN & DETAILS A6.00 - DOOR/WINDOW SCHEDULE S1 - GENERAL STRUCTURAL NOTES S2 - FOUNDATION FLOOR FRAMING PLAN & DETAILS S2.1 - TYPICAL FRAMING DETAILS M0 - NOTES M0.2 - ENERGY COMPLIANCE M0.3 - ENERGY COMPLIANCE M0.4 - ENERGY COMPLIANCE M2.1 - HVAC PLAN P0.1 - LEGENDS, SCHEDULES, NOTES & DETAILS P0.2 - PLUMBING PLAN P0.3 - PLUMBING SPECIFICATIONS P1.1 - GENERAL NOTES & LEGENDS E.01 - ELECTRICAL SPECIFICATIONS & ABBREVIATIONS E.1 - ELECTRICAL FLOOR PLAN E.2 - PHOTOMETRIC EGRESS PATH PLAN E.3 - ELECTRICAL DETAILS E.6 - ELECTRICAL SINGLE LINE DIAGRAM & PANEL SCHEDULE T24.1 - TITLE 24 ENERGY COMPLIANCE T24.2 - TITLE 24 ENERGY COMPLIANCE	



YOLO COUNTY VETERINARY CLINIC
2640 East Gibson Road

No. Description Date
BB24-089
Reviewed for
Code Compliance
Approved:CR
CONSTRUCTION DOCUMENTS
COVER SHEET
A0.00

SYMBOLS		DRAWING ABBREVIATIONS	
ROOM NAME ROOM NAME/NUMBER COLUMN CENTERLINE KEYNOTES BUILDING WALL SECTION ELEVATION SECTION DETAIL PLAN, BLOW-UP DETAIL	AB ADDITIONAL TILE CEILING ABOVE FINISH FLOOR AFF ACCESS FINISH AP APPROXIMATE ARCHITECTURE ASSOCIATED BLOC BUILDING BLOCK BOT BOTTOM OF BOTTOM BRG BEARING BASEMENT CONTROL JOINT CL CENTERLINE CLD CEILING CMU CONCRETE MASONRY UNIT COL COLUMN CON CONTINUOUS CONT COVER CPT CARPET CTR CENTER DEC DETENTION EQUIPMENT CONTRACTOR DESIGNATION DIA DIAMETER DRN DRAINING FOUNTAIN DRN DETENTION GRAB BAR DRN DRAIN DWG DRAWING EJ EXPANSION JOINT ELEV ELEVATION EQP EQUIPMENT EXT EXTERIOR FEM FLOOR DRAIN FND FOUNDATION FNS FIRE EXTINGUISHER FNS FINISH FLOOR ELEVATION FRT FIRE RESISTANT TREATED FRS FLOOR SERVICE FUT FUTURE GBR GENERAL CONTRACTOR GRD GRADE HCB HOLLOW CORE HM HOLLOW METAL HOR HORIZONTAL INT INTERIOR INS INSULATION JAN JANITOR MEV MECHANICAL MAX MAXIMUM MECH MECHANICAL NPS RIGID INSULATION eSPF - CLOSED CELL SPRAY POLYURETHANE FOAM INSULATION	ANCHOR BOLT ABOVE FINISH FLOOR ACCESS FINISH APPROXIMATE ARCHITECTURE ASSOCIATED BUILDING BLOCK BOTTOM OF BOTTOM BEARING BASEMENT CONTROL JOINT CENTERLINE CEILING CONCRETE MASONRY UNIT COLUMN CONTINUOUS COVER CARPET CENTER DETENTION EQUIPMENT CONTRACTOR DESIGNATION DIAMETER DRAINING FOUNTAIN DETENTION GRAB BAR DRAIN DRAWING EXPANSION JOINT ELEVATION EQUIPMENT EXTERIOR FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FINISH FLOOR ELEVATION FIRE RESISTANT TREATED FLOOR SERVICE FUTURE GENERAL CONTRACTOR GRADE HOLLOW CORE HOLLOW METAL HORIZONTAL INTERIOR INSULATION JANITOR MECHANICAL MAXIMUM MECHANICAL	MEMBRANE MANUFACTURER MINIMUM NOT FIRE RESISTANT METAL NUMBER NOT IN CONTRACT NORMAL NOT TO SCALE OVERLAP OVERLAP MASONRY OR OTHER OVERLAP ROOF DRAIN OVERLAP SCUPPER ORNING OWNER PROVIDED OWNER OWNER PROVIDED CONTRACTOR PRECAST PREFINISHED PANEL JOINT PLATE PLUMBING PLUMBING PANEL PRESSURE TREATED PAPER TOWEL DISPENSER REINFORCED REVISION REQUIRED ROOF DRAIN ROOM ROOM OPENING BILGE PANEL ACCESS SEALED CONCRETE SEALED SECURITY SECTION SHEET SINKER SINK SPECIFICATIONS STAINLESS STEEL STEEL STIFFENER STRUCTURAL TAG TILE TILE OVER FLOOR TILE PAPER HOLDER TILE STRIP TYPICAL UNIFORM VAPOR BARRIER VENT VINYL COMPOSITE TILE VERTICAL VENT IN FIELD VENT THROUGH ROOF VINYL WALL COVERING WOOD WITH WINDOW WINDOW WATERPROOF WALL TYPE FABRIC WELDED WIRE FABRIC
MATERIALS			
CONCRETE/ PRECAST CONCRETE SOIL SAND, EIFS FINISH COAT STEEL CMU STONE NPS RIGID INSULATION eSPF - CLOSED CELL SPRAY POLYURETHANE FOAM INSULATION			

GENERAL NOTES		BUILDING CODES		STATEMENT OF GENERAL CONFORMANCE	
PROJECT NOTES 1. BUILDING AREA: 280 SQ. FT. 2. LOCATION OF THE BUILDING WILL BE DETERMINED ON SITE AFTER DELIVERY. NECESSARY PERMITS, OPTIONAL FOUNDATION & STRUCTURAL DESIGNS, AND ALL SITE UTILITY COORDINATION WILL BE THE RESPONSIBILITY OF OWNER/INSTALLER. OWNER/INSTALLER TO VERIFY SUITABLE SOIL FOR BUILDING LOCATION. FINAL GRADE TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURE. 3. THE GENERAL CONTRACTOR WILL COORDINATE ALL REQUIRED PERMIT SUBMITTALS AND INSPECTIONS THROUGH THE AUTHORITY HAVING JURISDICTION FOR ANY NEEDED SITE WORK, INSTALLATION AND UTILITY CONNECTIONS. 4. PROVIDE AN ACCESSIBLE ROUTE TO THE ENTRY. CHANGES IN LEVEL UP TO 1/4 IN MAY BE VERTICAL AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL BETWEEN 1/4 IN AND 1/2 IN SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1/2. CHANGES IN LEVEL GREATER THAN 1/2 IN SHALL BE ACCOMPLISHED BY MEANS OF A RAMP. SLOPE OF ROUTE NOT TO EXCEED 4.99% CROSS SLOPE NOT TO EXCEED 1.59%. 5. CLINIC IS FOR PRIVATE USE ONLY. ADA RESTROOM LOCATED WITHIN 300 FT ON CAMPUS. 6. RAMP AND LANDING DETAILS SHOWN FOR REFERENCE ONLY. FINAL DESIGN, MATERIALS AND CONSTRUCTION OF LANDING/RAMP INCLUDING HANDRAIL, WARNING CURB, GRADING, ARE TO BE DESIGNED AND PROVIDED BY OTHERS IN ACCORDANCE WITH CHAPTER 11B 2022 CALIFORNIA BUILDING CODE. 7. SITE WORK SUBJECT TO LOCAL REVIEW AND APPROVAL. 8. BUILDING NOT TO BE PLACED IN FLOOD HAZARD ZONE. 9. DATA PLATE/INSIGNIA PROVIDED ON INTERIOR OF ELECTRICAL PANEL. 10. A LOCAL ELECTRICAL CONTRACTOR IS RESPONSIBLE TO DO THE FINAL LIVE CONNECTION AND BRING POWER TO UNITS. 11. CLIENT TO HIRE SUBCONTRACTOR TO CONNECT APPROPRIATELY DESIGNED WASTE SYSTEM TO CLINIC. 12. CLIENT IS RESPONSIBLE FOR WIND BORNE DEBRIS PROTECTION.		PART 2 2022 CALIFORNIA ADMINISTRATIVE CODE PART 2 2022 CALIFORNIA BUILDING CODE PART 7 2022 CALIFORNIA ELECTRICAL CODE PART 8 2022 CALIFORNIA MECHANICAL CODE PART 9 2022 CALIFORNIA PLUMBING CODE PART 9 2022 CALIFORNIA ENERGY CODE PART 9 2022 CALIFORNIA FIRE CODE		APPLICATION NO. 02-123126 THE DRAWINGS IDENTIFIED AS FOLLOWS: ALL DRAWING SHEETS INCLUDED IN THIS SET NOT BEARING MY STAMP AND SIGNATURE HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND AUTHORIZED TO PREPARE SUCH DRAWINGS (PLANS) IN THIS STATE. THEY HAVE BEEN EXAMINED BY ME FOR: 1) DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS AND 2) COORDINATION WITH MY DRAWINGS (PLANS) AND SPECIFICATIONS AND ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT. PER TITLE 24, PART 1, SECTION 4-318(B): THIS STATEMENT OF GENERAL CONFORMANCE SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17902 AND 18158 OF THE EDUCATION CODE AND SECTIONS 4.336, 4.341 AND 4.344 OF TITLE 24, PART 1. SIGNATURE: <i>Stephanie Amato</i> DATE: 04-02-2025 NABIL TAJALI #C06802 PRINTED NAME LICENSE NUMBER	
STRUCTURAL GENERAL NOTES AND LOADING					
LIVE FLOOR LOAD	100 psf.	DEAD FLOOR LOAD	15 psf.		
ROOF LIVE LOAD	20 psf.	ROOF DEAD LOAD	20 psf.		
GROUND SNOW LOAD	Pg = 7 psf.	FLAT ROOF SNOW LOAD	20 psf.		
SNOW EXPOSURE FACTOR	Ca = 1.0	SNOW LOAD IMPORTANCE FACTOR	Ia = 1.0		
THERMAL FACTOR	Ct = 1.0	BASIC WIND SPEED (3 SEC. GUST)	95 mph		
RISK CATEGORY	II	WIND EXPOSURE	C		
INTERNAL PRESSURE COEFFICIENT	0.18	COMPONENTS AND CLADDING STUDS	19.29 psf		
SEISMIC IMPORTANCE FACTOR	Ie = 1.0	SITE CLASS	D		
Ss	0.877 S1	S1	0.325		
Sms	1.052 Sm1	0.842			
Sds	0.702 Sd1	0.428			
SEISMIC DESIGN CATEGORY	D	BASIC SEISMIC FORCE RESISTING SYSTEM (STEEL MOD CONTAINER/SIBU)			
DESIGN BASE SHEAR	0.351-W	APPROXIMATE FUNDAMENTAL PERIOD	T = 0.108		
RESPONSE MODIFICATION FACTOR	R = 2	ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE PROCEDURE		

SITE PLAN LEGEND

----- ACCESSIBLE PATH OF TRAVEL

NOTES:

1. 40 FT VETERINARY WORKSTATION DOES NOT ADD ENOUGH SQUARE FOOTAGE (272 SF) TO WARRANT MORE PARKING SPACES ACCORDING TO YOLO COUNTY ZONING TABLE 8-2.1306 THAT STATES 1 PARKING SPACE IS REQUIRED FOR EVERY 350 SQ FT OF GROSS FLOOR AREA.
2. SITE DOES NOT FALL INTO WILDLAND URBAN INTERFACE AREA.
3. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.
4. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP-RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT BE STEEPER THAN 1:20. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FREE OF OBJECTS PROTRUDING MORE THAN 4" FROM THE WALL, ABOVE 27" AND LESS THAN 80" ABOVE THE FLOOR. ARCHITECT SHALL VERIFY THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
5. ALL DOORWAYS, LANDINGS, WALKWAYS, ETC IN THE ACCESSIBLE PATH OF TRAVEL COMPLY WITH CBC CHAPTER 11B.
6. NO EXISTING DRINKING FOUNTAINS ON CAMPUS.



EXISTING YOLO COUNTY ANIMAL SHELTER PARKING LOT

EXISTING VAN AISLE @ 60' WIDE, MARKED AS NEEDED

(1) EXISTING ACCESSIBLE PARKING AND PRIMARY ENTRANCE APPROVED BY YOLO COUNTY FEB 8, 2024

ACCESSIBLE PARKING SIGN

ACCESSIBLE PATH OF TRAVEL TO NEW WORKSTATION WILL BE THROUGH CURRENT BUILDING OPEN CORRIDOR AS NEW 40 FT CLINIC IS ONLY FOR EMPLOYEE ACCESS; SEE ORIGINAL FL PLANS 'EXISTING ADOPTION BLDG_V1' PG 22.

EXISTING YOLO COUNTY ANIMAL SHELTER; SEE ORIGINAL FL PLANS 'EXISTING ADOPTION BLDG'

EXISTING ROOFING SHELTER

40FT VETERINARY CLINIC
USE: WORKSTATION
OCCUPANCY: BUSINESS
CONSTRUCTION TYPE: V-B
SPRINKLER SYSTEM: NO
DSA APPLICATION NUMBER: 02-123126

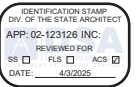
EXISTING FENCE BLOCKING PUBLIC FROM ACCESSING EAST SIDE OF CONTAINER/HVAC; SEE EXISTING ACCESSIBLE RESTROOMS_V1 FILE

ACCESSIBLE PATH OF TRAVEL TO NEW WORKSTATION; ALL SITE WORK TO BE DESIGNED AND COMPLETED BY OWNER/CONTRACTOR HIRED BY OWNER

ACCESSIBLE PATH OF TRAVEL TO ACCESSIBLE RESTROOMS.

EXISTING ACCESSIBLE RESTROOMS APPROVED BY YOLO COUNTY. VERIFIED TO COMPLY WITH CURRENT CODE.

① SITE
1" = 20'-0"



YOLO COUNTY VETERINARY CLINIC
2060 East Green Road

BB24-089
Reviewed for
Code Compliance
Approved: CR

CONSTRUCTION DOCUMENTS

SITE PLAN

A1.00

CODE LEGEND

--- EXIT TRAVEL DISTANCE

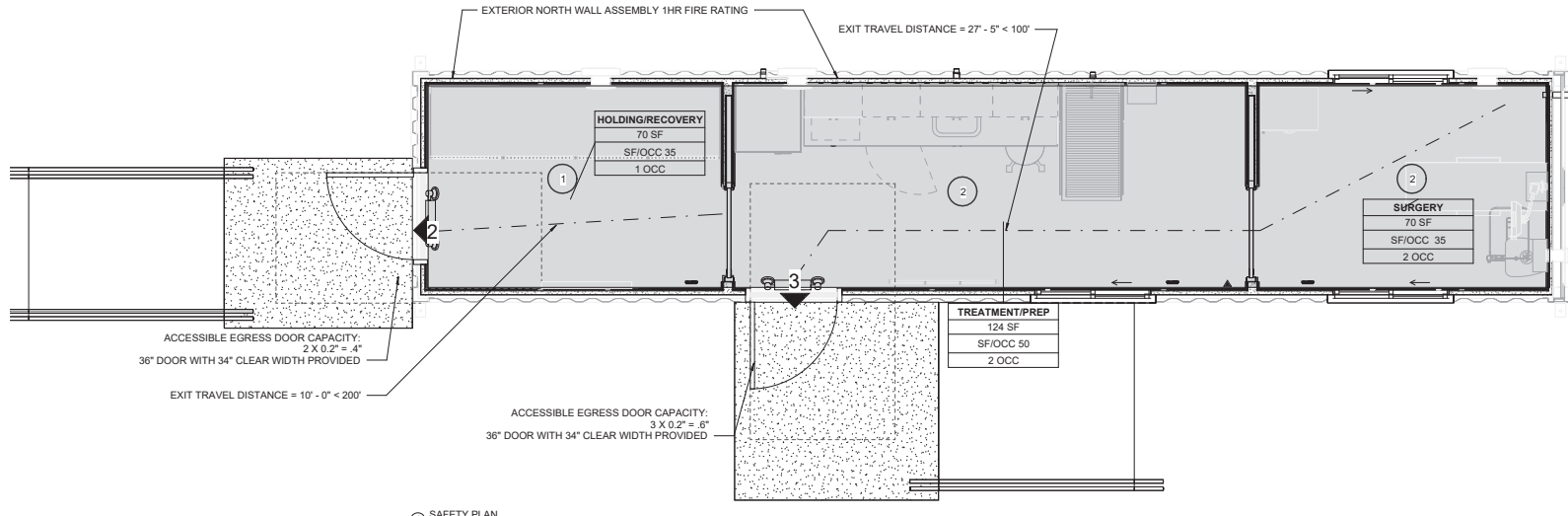
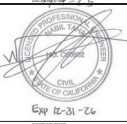
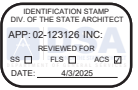
◀ # NUMBER OF OCCUPANTS EXITING

○ # OCCUPANT LOAD

LIFE SAFETY AREA TAG

NAME	INDICATES ROOM NAME
150 SF	INDICATES ROOM SQUARE FOOTAGE
SF/OCC 20	INDICATES ROOM SQ. FT PER OCCUPANT
10 OCC	INDICATES OCCUPANCY

CODE PLAN NOTES:
 1. OCCUPANCY AT 150 SF PER 1 OCCUPANCY IS TOO LOW FOR THIS SPACE, REQUESTED OCCUPANCY AT 50 FT PER 1 OCCUPANT ALLOWS FOR A MAXIMUM OF 5 OCCUPANTS, THIS ALLOWS FOR A MAXIMUM OF 2 OCCUPANTS TO BE IN SURGERY, 2 IN PREP AND 1 IN RECOVERY/HOLDING.
 2. CLINIC IS A SINGLE WORKSTATION, EACH ROOM IS USED BY ALL OCCUPANTS. WORK WILL BE FLUID BETWEEN THE THREE ROOMS.
 3. AN ACCESSIBLE ROUTE TO THE WORKSTATION IS PROVIDED.



1 SAFETY PLAN
1/2" = 1'-0"

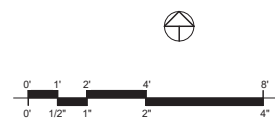
YOLO COUNTY VETERINARY CLINIC
2040 East Glenn Road

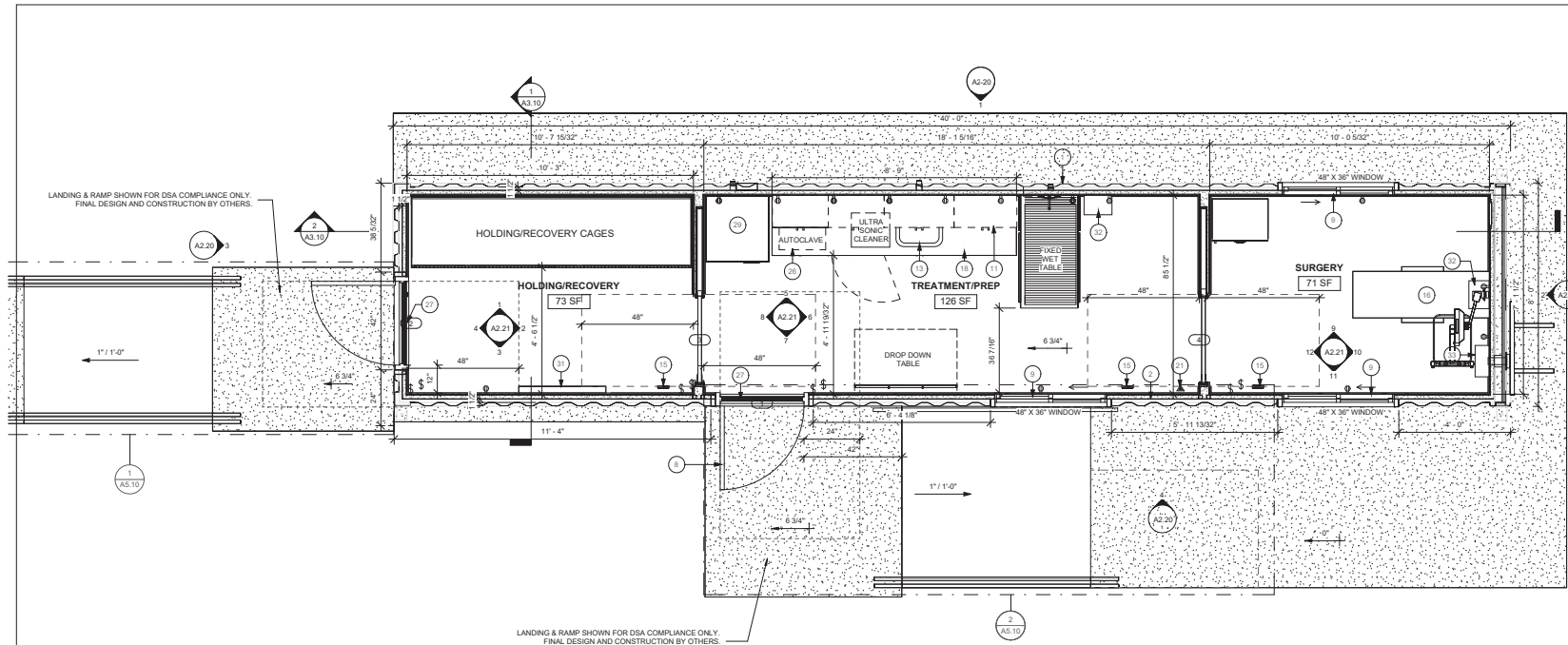
BB24-089
 Reviewed for Code Compliance
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CONSTRUCTION DOCUMENTS

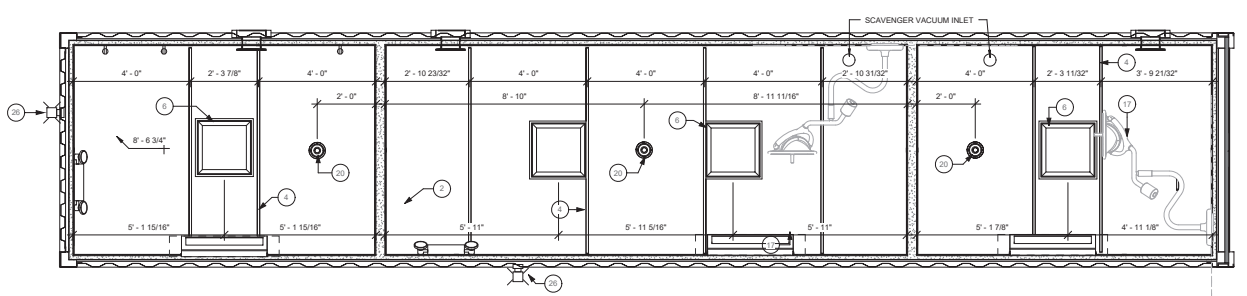
LIFE SAFETY/CODE PLAN

A1.01

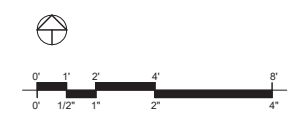




1 FINISH FLOOR PLAN
1/2" = 1'-0"



2 REFLECTED CEILING PLAN
1/2" = 1'-0"



Keynote Legend	
Key	Keynote Text
1	40 FOOT NON CSC (CERTIFIED SHIPPING CONTAINER) EXTERIOR 2 PART PAINT: WILKO PAINT INDUSTRIAL FINISH - 711.60 WILKOTHANE G SG WHITE (PART A) & 05.05 WILKOTHANE G ACTIVATOR.
2	INTERIOR WALLS FRAMED WITH 1 5/8" 20 GAUGE GALVANIZED STEEL STUDS. A TOTAL OF 3.125 INCHES OF CLOSED CELL 2 LB. ICYCYENE FOAM INSULATION IS SPRAYED INSIDE THE WALL AND 3.5 INCHES OF C.I. INSULATION SPRAYED IN THE CEILING WITH 3 5/8 INCHES CLOSED CELL 2 LB INSULATION SPRAYED IN STUD CAVITY. THE INSULATION EXPANDS TO EFFECTIVELY SEAL THE CONTAINER. WALLS (WHITE) & CEILINGS (WHITE) ARE COVERED WITH 0.55MM FULL COLOR THICKNESS NON-FRP WASHABLE SURFACE & PRE-LAMINATED ON 7/16 INCH OSB.
3	WALL JOINTS ARE COVERED WITH NUDO V-29 WHITE TRIM
4	CEILING JOINTS ARE COVERED WITH NUDO V-29 WHITE TRIM
5	OPTIONAL COMMUNICATION & TELEMEDICINE READY INCLUDING (3) CAT 5 INTERNAL ACCESS POINTS, (1) OPTIONAL STANDARD TELEPHONE WITH EXTERIOR COMMUNICATION PORT ACCESS PANEL
6	ENERGY EFFICIENT 2'-0" X 2'-0" FLAT PANEL LED LIGHT
7	EXTERNAL WATER SUPPLY CONNECTION OF 3/4" & EXTERNAL GREY WATER WASTE CONNECTION OF 2". ROUGH & FINISHED PLUMBING IS COMPRISED OF 1/2" PEX TUBING WITH BRASS FITTINGS.
8	COMMERCIAL STEEL ENTRY DOOR WITH ENTRANCE LEVER DOOR HANDLES & M-SERIES HEAVY DUTY MORTISE LOCK WITH 1" STAINLESS STEEL ANTI-FRICTION 1 1/8" X 1/2" THICK DEAD-BOLT LOCKING MECHANISM WITH DOOR SWEEP, KICK DOWN DOOR HOLD & AUTO CLOSURE. SECURITY GATE AS REQUIRED.
9	48" X 36" VINYL SLIDING GLASS UV WINDOW WITH INTEGRATED BUG SCREEN
10	MEDICAL GRADE SEAMLESS HETEROGENOUS VINYL FLOORING WITH 4 INCHES OF FLASH COVING
11	MIDMARK RENEW STYLE STEEL PRESSED, POWDER COATED 36"H X 24"D BASE & 24" TALL WALL CABINETS WITH INTEGRATED LOCKS, STAINLESS STEEL SINK & GOOSENECK FAUCET, TRASH CAN WITH INTEGRATED DOOR
12	MIDMARK 18" CART CABINET
13	STAINLESS STEEL SINK & GOOSENECK FAUCET
14	HVAC UNIT W HEAT PUMP
15	THERMOSTAT, HARDWIRED
16	SURGERY TABLE WITH HYDRAULIC COLUMN, HEATED TOP, ON CASTERS
17	MIDMARK 235 LED PROCEDURE LIGHT
18	CORIAN COUNTERTOP WITH INTEGRAL BACKSPLASH & SINK OPENING
19	ELECTRICAL PANEL WITH DATA PLATE/STATE INSIGNIA/THIRD PARTY LOGO PLACED ON INTERIOR OF ELECTRICAL PANEL DOOR. INTERIOR ELECTRICAL CONNECTIONS ARE COMPRISED OF HCFMC BLACK/WHITE/GREEN HOSPITAL GRADE METAL CLAD #12/2 SOLID COPPER WIRES, GALVANIZED METAL BOXES & UL GFI BREAKERS.
20	CEILING MOUNTED SMOKE DETECTOR
21	FIRE EXTINGUISHER 2.2 KG CLASS ABC RECHARGEABLE AT 55" ABOVE FINISHED FLOOR
22	4 CU FT. UNDERCOUNTER MEDICAL REFRIGERATOR
23	WET TREATMENT TABLE
24	ANIMAL HOLDING CAGES
25	MULTIPARAMETER WITH PRINTER
26	EXTERIOR LED LIGHT ABOVE DOOR
27	5" WIDE ALUMINUM DOOR THRESHOLD
28	PULL-DOWN MULTIPURPOSE WALL MOUNTED PROCEDURE TABLE
29	STACKED WASHER/DRYER
30	ROOF SLOPE @ 0/12
31	FOLD DOWN ANIMAL SCALE
32	VMS ANESTHESIA WALL MOUNTED W VIP VAPORIZER
33	CENTRAL SCAVENGER

NOTES:
1. NO FIRE ALARM INCLUDED, FIRE ALARM NOT REQUIRED PER 907.2.2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 02-123126 INC.
REVIEWED FOR:
88 FLS ACS
DATE: 4/9/2025

6/29 12-31-24

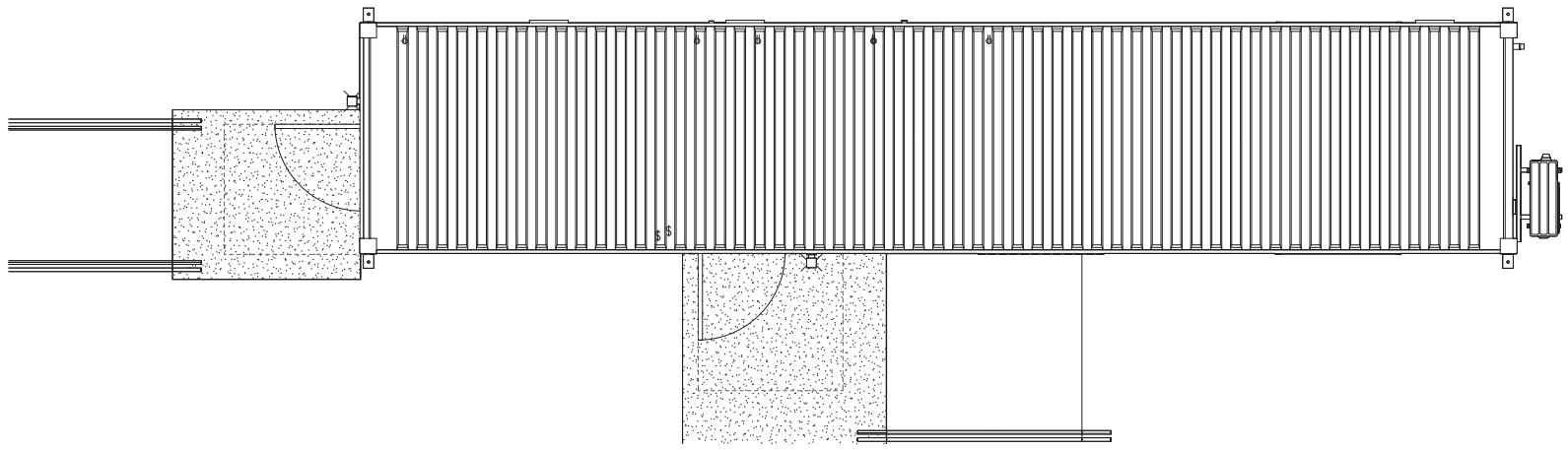
YOLO COUNTY VETERINARY CLINIC
2060 East Clearwater

BB24-089
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CONSTRUCTION DOCUMENTS

FINISH FLOOR PLAN

A1.20



1 ROOF PLAN
1/2" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123126 INC.
REVIEWED FOR: FLS ACS
DATE: 4/9/2025



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2040 East Glenn Road

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Code Compliance
Approved: CR

CONSTRUCTION DOCUMENTS

ROOF PLAN

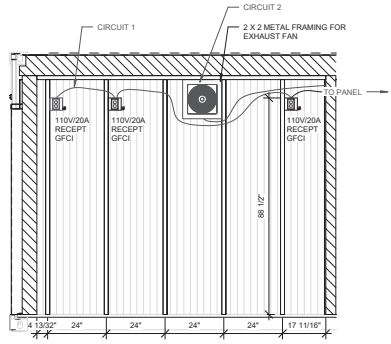
A1.30

DATE PLOTTED: 11/20/24 10:41 AM

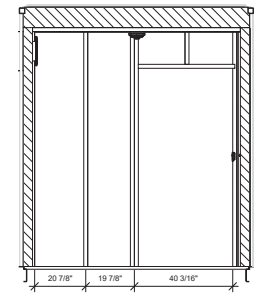
LEGEND
 INDICATES DEDICATED RECEPTACLES INTENDED TO UTILIZE EXCEPTION IN 11B-203.9

NOTES:
 C1 - 20 AMP
 C3 - ALL LIGHTING (INTERIOR AND EXTERIOR) AND EXIT SIGNS
 C8 - 30 AMP TWO POLE BREAKER
 C9 - 20 AMP TWO POLE BREAKER
 C13 - 30 AMP TWO POLE BREAKER; FOR THE HVAC UNIT

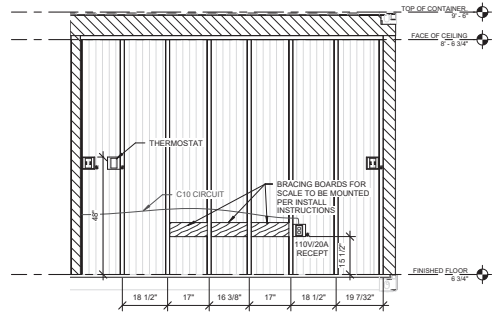
IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-123126 INC.
 REVIEWED FOR: ACS
 DATE: 4/9/2025



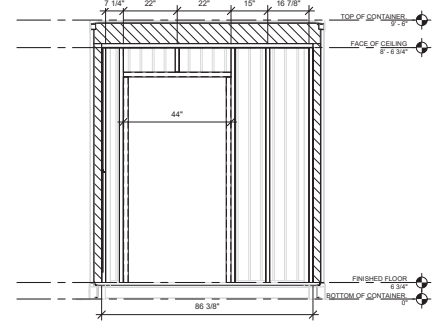
1 HOLDING NORTH FRAMING WALL
 1/2" = 1'-0"



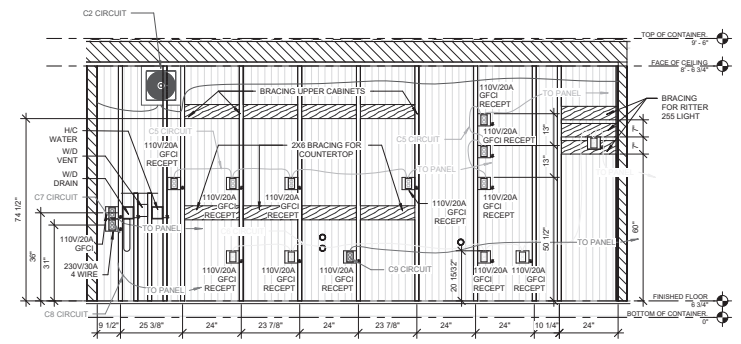
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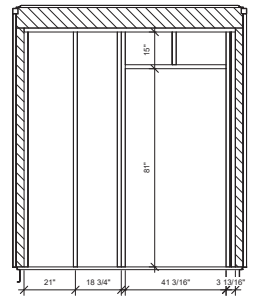
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 1/2" = 1'-0"



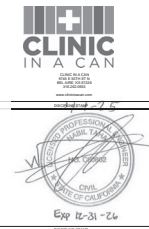
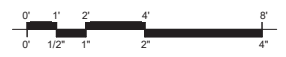
4 HOLDING WEST FRAMING WALL
 1/2" = 1'-0"



5 TREATMENT/PREP NORTH FRAMING WALL
 1/2" = 1'-0"



6 TREATMENT/PREP EAST FRAMING WALL
 1/2" = 1'-0"



YOLO COUNTY VETERINARY CLINIC
 2060 East Geary Road

BB24-089
 Reviewed for Code Compliance
 Approved: CR

CONSTRUCTION DOCUMENTS

FRAMING ELEVATIONS

A2.10

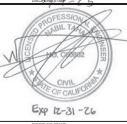
LEGEND

INDICATES DEDICATED RECEPTACLES INTENDED TO UTILIZE EXCEPTION IN 11B-203.9

NOTES:

- C1 - 20 AMP TWO POLE BREAKER
- C3 - ALL LIGHTING (INTERIOR AND EXTERIOR) AND EXIT SIGNS
- C8 - 30 AMP TWO POLE BREAKER
- C9 - 40 AMP TWO POLE BREAKER
- C13 - 30 AMP TWO POLE BREAKER; FOR THE HVAC UNIT

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-123126 INC.
 REVIEWED FOR:
 SS FLS ACS
 DATE: 4/9/2025



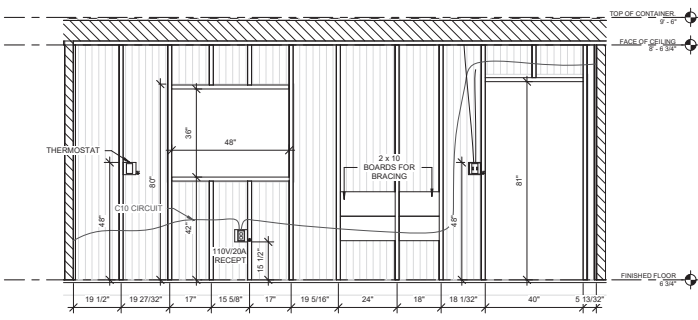
YOLO COUNTY VETERINARY CLINIC
 2060 East Green Road

BB24-089
 No. Description Date
 Reviewed for Code Compliance
 Approved: CR

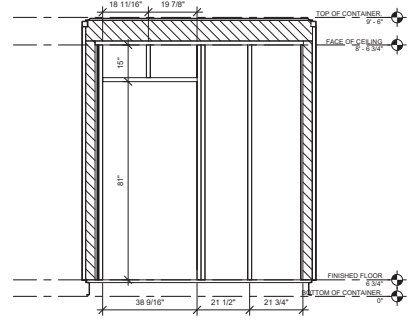
CONSTRUCTION DOCUMENTS

FRAMING ELEVATIONS

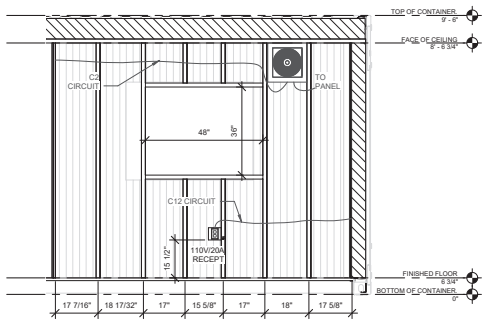
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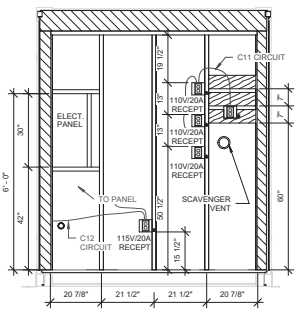
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 1/2" = 1'-0"



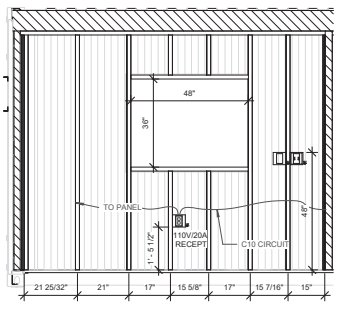
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 1/2" = 1'-0"



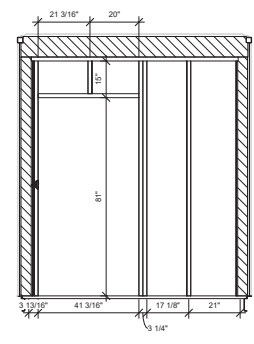
3 SURGERY NORTH FRAMING WALL
 1/2" = 1'-0"



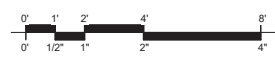
4 SURGERY EAST FRAMING WALL
 1/2" = 1'-0"



5 SURGERY SOUTH FRAMING WALL
 1/2" = 1'-0"



6 SURGERY WEST FRAMING WALL
 1/2" = 1'-0"



IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-123126 INC.
 REVIEWED FOR:
 SS FLS ACS
 DATE: 4/9/2025

YOLO COUNTY VETERINARY CLINIC
 IN A CAN

STATE OF CALIFORNIA
 ARCHITECT
 EXPIRES 12-31-26

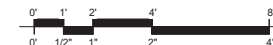
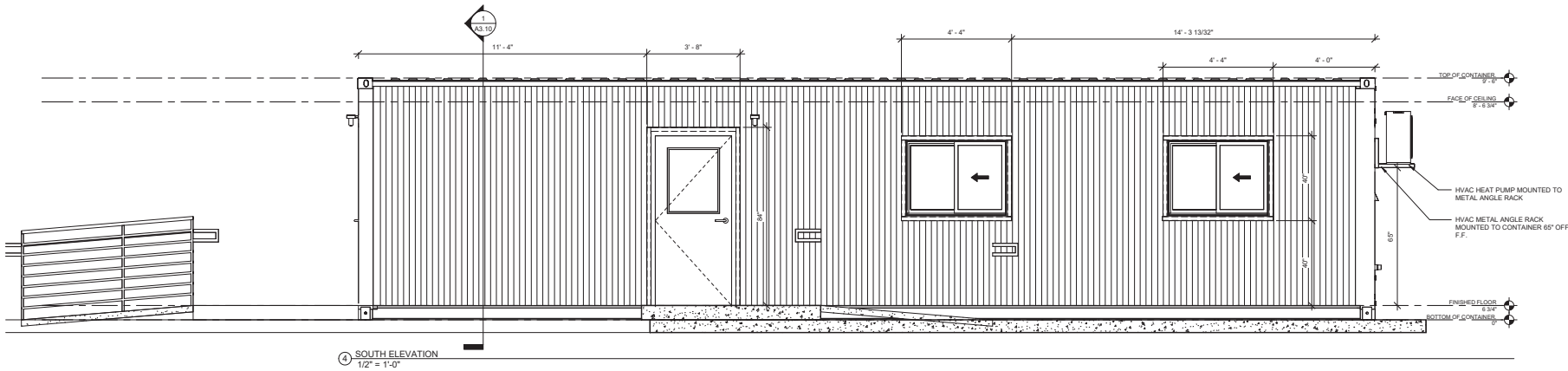
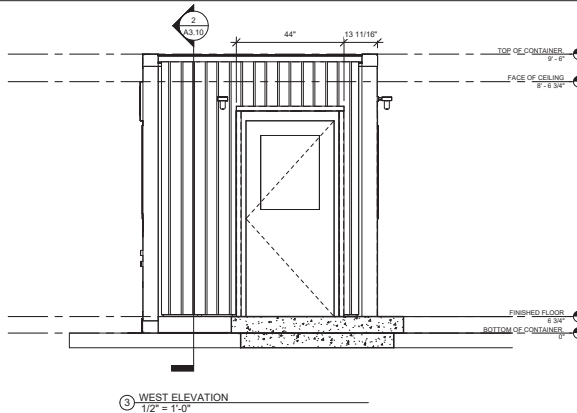
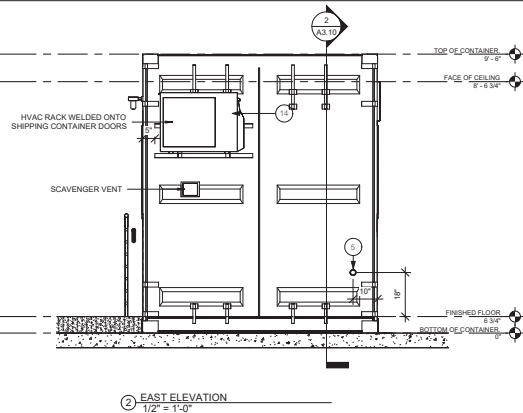
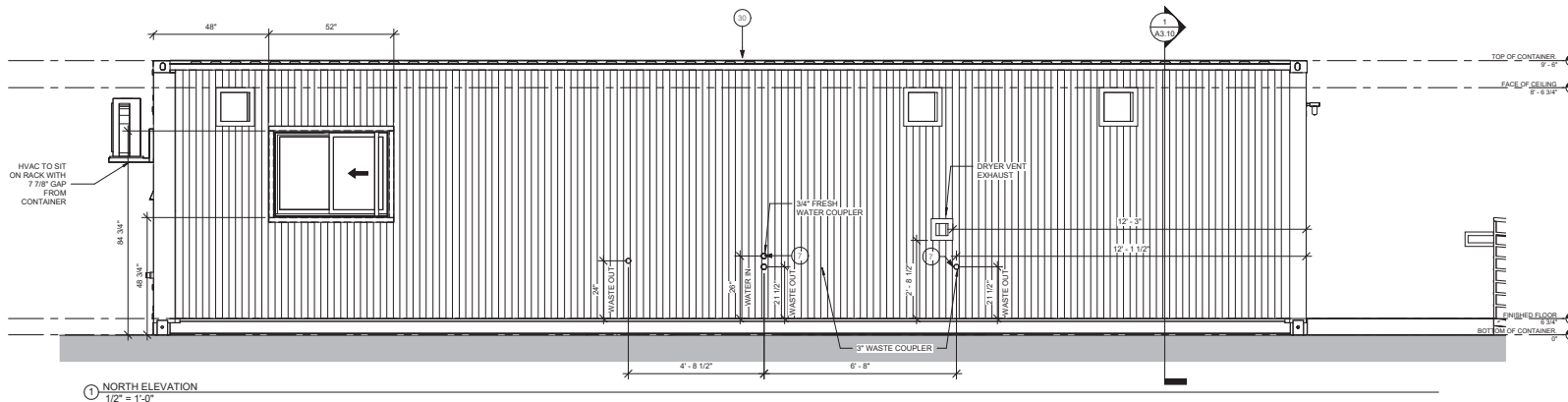
YOLO COUNTY VETERINARY CLINIC
 2060 East Green Road

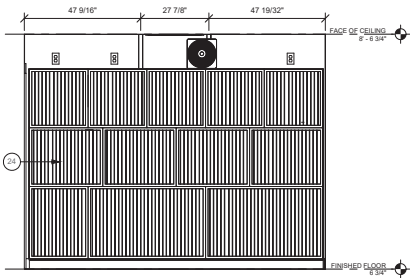
BB24-089
 No. Description Date
 Reviewed for
 Code Compliance
 Approved: CR

CONSTRUCTION DOCUMENTS

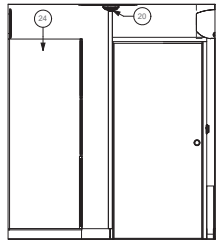
BUILDING ELEVATIONS

A2.20

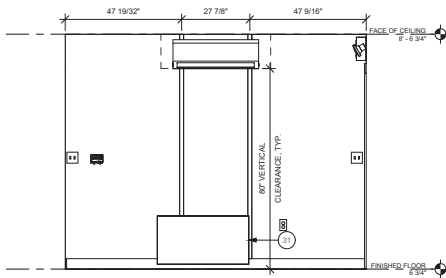




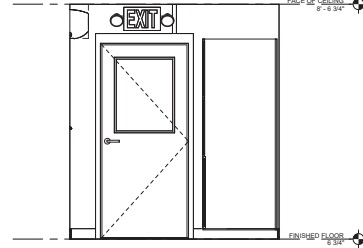
1 HOLDING NORTH WALL
1/2" = 1'-0"



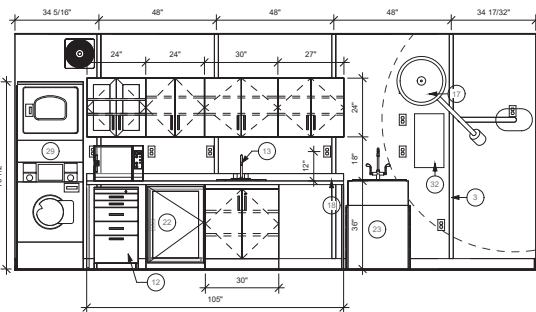
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1/2" = 1'-0"



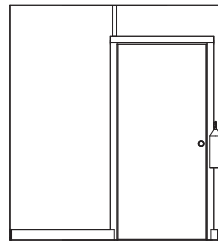
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1/2" = 1'-0"



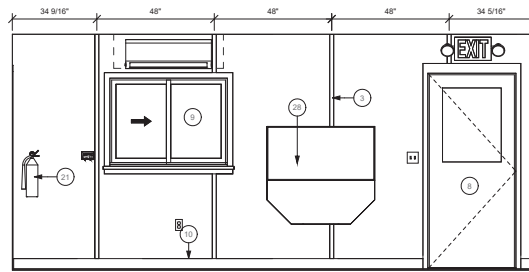
4 HOLDING WEST WALL
1/2" = 1'-0"



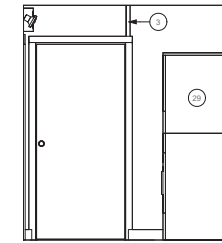
5 EXAM NORTH WALL
1/2" = 1'-0"



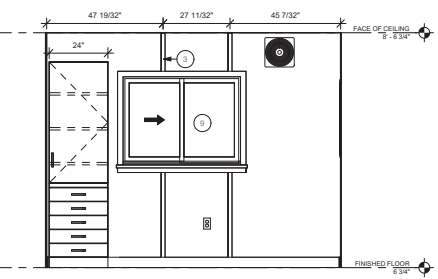
6 EXAM EAST WALL
1/2" = 1'-0"



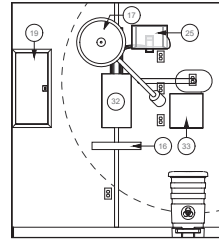
7 EXAM SOUTH WALL
1/2" = 1'-0"



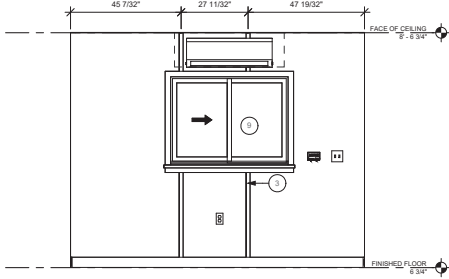
8 EXAM WEST WALL
1/2" = 1'-0"



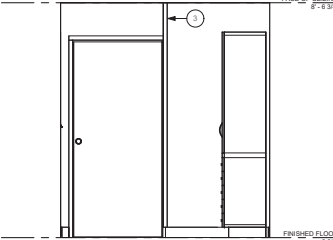
9 SURGERY NORTH WALL
1/2" = 1'-0"



10 SURGERY EAST WALL
1/2" = 1'-0"



11 SURGERY SOUTH WALL
1/2" = 1'-0"

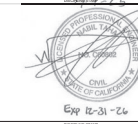
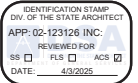
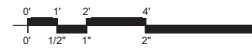


12 SURGERY WEST WALL
1/2" = 1'-0"

Key	Keynote Legend
Val	Keynote Text
ue	

- 40 FOOT NON CSC (CERTIFIED SHIPPING CONTAINER) EXTERIOR 2 PART PAINT: WILKO PAINT INDUSTRIAL FINISH - 711.60 WILKOTHANE G SG WHITE (PART A) & 050.06 WILKOTHANE G ACTIVATOR.
- INTERIOR WALLS FRAMED WITH 1 5/8" 20 GAUGE GALVANIZED STEEL STUDS. A TOTAL OF 3.125 INCHES OF CLOSED CELL 2 LB. ICYCYENE FOAM INSULATION IS SPRAYED INSIDE THE WALL AND 3.5 INCHES OF C.I. INSULATION SPRAYED IN THE CEILING WITH 3 5/8 INCHES CLOSED CELL 2LB INSULATION SPRAYED IN STUDD CAVITY. THE INSULATION EXPANDED TO EFFECTIVELY SEAL THE CONTAINER. WALLS (WHITE) & CEILINGS (WHITE) ARE COVERED WITH 0.55MM FULL COLOR THICKNESS NON-FRP WASHABLE SURFACE & PRE-LAMINATED ON 7/16 INCH OSB.
- WALL JOINTS ARE COVERED WITH NUDO V-29 WHITE TRIM
- CEILING JOINTS ARE COVERED WITH NUDO V-29 WHITE TRIM
- OPTIONAL COMMUNICATION & TELEMEDICINE READY INCLUDING (3) CAT 5 INTERNAL ACCESS POINTS, (1) COAX, (1) OPTIONAL) STANDARD TELEPHONE WITH EXTERIOR COMMUNICATION PORT ACCESS PANEL
- ENERGY EFFICIENT 2'-0" X 2'-0" FLAT PANEL LED LIGHT
- EXTERNAL WATER SUPPLY CONNECTION OF 3/4" & EXTERNAL GREY WATER WASTE CONNECTION OF 2". ROUGH & FINISHED PLUMBING IS COMPRISED OF 1/2" PEX TUBING WITH BRASS FITTINGS.
- COMMERCIAL STEEL ENTRY DOOR WITH ENTRANCE LEVER DOOR HANDLES & MASERIES HEAVY DUTY MORTISE LOCK WITH 1" STAINLESS STEEL ANTI-FRICTION 1 1/8" X 1/2" THICK DEAD-BOLT LOCKING MECHANISM WITH DOOR SWEEP, KICK DOWN DOOR HOLD & AUTO CLOSURE. SECURITY GATE AS REQUIRED.
- 48" X 36" VINYL SLIDING GLASS UV WINDOW WITH INTEGRATED BUG SCREEN
- MEDICAL GRADE SEAMLESS HETEROGENOUS VINYL FLOORING WITH 4 INCHES OF FLASH COVING
- MIDMARK RENEW STYLE STEEL PRESSED, POWDER COATED 36"H X 24"D BASE & 24" TALL WALL CABINETS WITH INTEGRATED LOCKS, STAINLESS STEEL SINK & GOOSENECK FAUCET, TRASH CAN WITH INTEGRATED DOOR
- MIDMARK 18" CART CABINET
- STAINLESS STEEL SINK & GOOSENECK FAUCET
- HVAC UNIT W HEAT PUMP
- THERMOSTAT, HARDWIRED
- SURGERY TABLE WITH HYDRAULIC COLUMN, HEATED TOP, ON CASTERS
- MIDMARK 255 LED PROCEDURE LIGHT
- CORIAN COUNTERTOP WITH INTEGRAL BACKSPASH & SINK OPENING
- ELECTRICAL PANEL WITH DATA PLATE/STATE INSIGNIA/THIRD PARTY LOGO PLACED ON INTERIOR OF ELECTRICAL PANEL DOOR; INTERIOR ELECTRICAL CONNECTIONS ARE COMPRISED OF HCFMC BLACK/WHITE/GREEN HOSPITAL GRADE METAL CLAD #12/2 SOLID COPPER WIRES, GALVANIZED METAL BOXES & UL GFI BREAKERS.
- CEILING MOUNTED SMOKE DETECTOR
- FIRE EXTINGUISHER 2.2 KG CLASS ABC RECHARGEABLE AT 5' ABOVE FINISHED FLOOR
- 4 CU-FT. UNDERCOUNTER MEDICAL REFRIGERATOR
- WET TREATMENT TABLE
- WET TREATMENT TABLE
- ANIMAL HOLDING CAGES
- MULTIPARAMETER WITH PRINTER
- EXTERIOR LED LIGHT ABOVE DOOR
- 5" WIDE ALUMINUM DOOR THRESHOLD
- PULL-DOWN MULTIPURPOSE WALL MOUNTED PROCEDURE TABLE
- STACKED WASHER/DRYER
- ROOF SLOPE @ 1/12
- FOLD DOWN ANIMAL SCALE
- VMS ANESTHESIA WALL MOUNTED W VIP VAPORIZER
- CENTRAL SCAVENGER

NOTE: ALL RECEIPTABLES ARE INTEGRAL & PART OF WORKSTATION EXCEPTON 11B-203.9



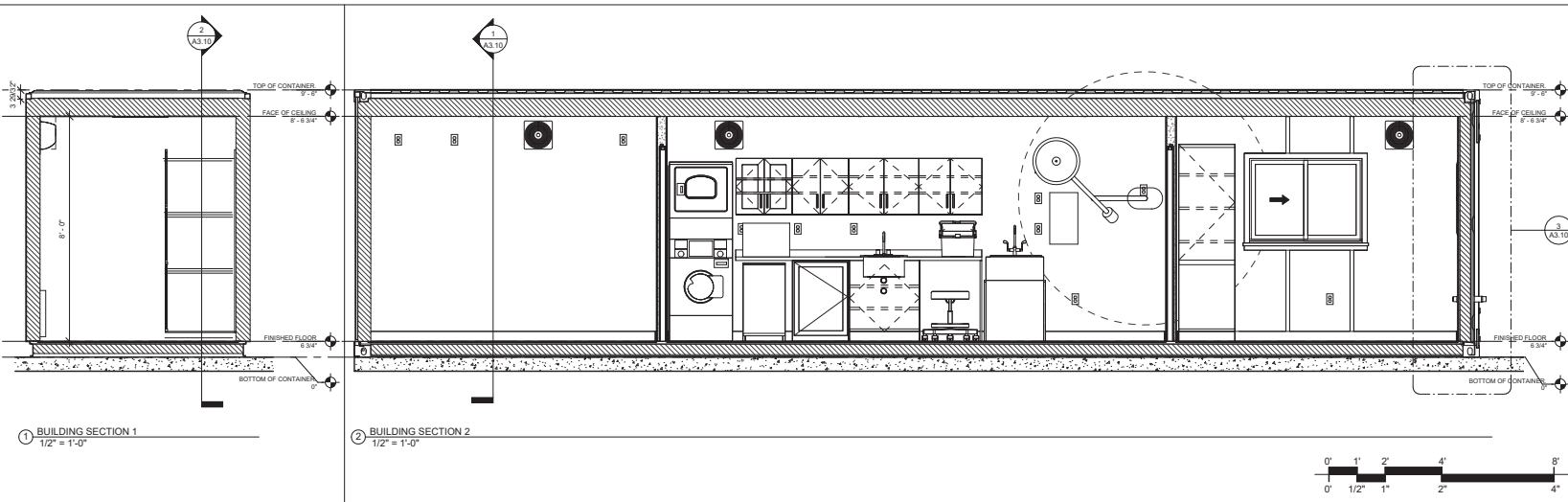
YOLO COUNTY VETERINARY CLINIC
2000 East Green Road

BB24-089
Reviewed for
Code Compliance
Approved: CR

CONSTRUCTION DOCUMENTS

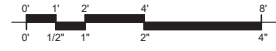
INTERIOR ELEVATIONS

A2.21



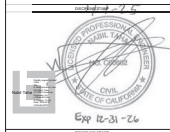
1 BUILDING SECTION 1
1/2" = 1'-0"

2 BUILDING SECTION 2
1/2" = 1'-0"

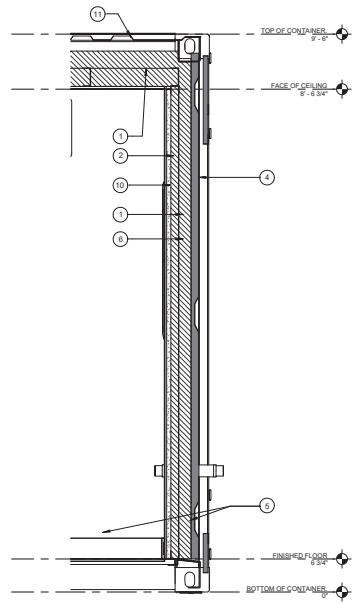


- KEYNOTES:**
3. 125'x10.48 cm of 2 LB / 91 kg CLOSED CELL ICYNE NE FOAM INSULATION SPRAYED IN THE WALLS & CEILING.
 2. INTERIOR WALLS FRAMED WITH 20 GAUGE GALVANIZED STEEL STRUCTURAL STUDS.
 - ROUGH PLUMBING IS 1/2"/1.28cm PEX TUBING WITH BRASS FITTINGS.
 - NON-CSC CERTIFIED SHIPPING CONTAINER EXTERIOR WALL SURFACE. MADE FROM 12 GAUGE MILD STEEL PAINTED WITH A TWO-PART EPOXY WHITE EXTERIOR - RESISTS RUST & REFLECTS SOLAR GAIN.
 - HETEROGENEOUS MEDICAL GRADE SEAMLESS VINYL FLOORING & WALL BASE WITH 4" FLASH COVING.
 - WALLS & CEILING ARE COVERED WITH A 0.55mm FULL COLOR THICKNESS NON-FRP WASHABLE SURFACE WHICH HAS BEEN PRE-LAMINATED TO A 3/8" / 1.0cm OSB BOARD. THE OSB BOARD TO BE TREATED WITH AN ANTI-TERMITE MINERAL. WALLS & CEILING TO BE SECURED USING BOTH LIQUID NAILS HEAVY DUTY CONSTRUCTION ADHESIVE & 1-1/4" DRY WALL SCREWS.
 - ROUGH ELECTRICAL USES UL LISTED METAL CLAD #12/2 SOLID COPPER WIRES & GALVANIZED METAL BOXES.
 - US UL ELECTRICAL OUTLETS.
 - GFCI DUPLEX OUTLET OR CIRCUIT IF AN OUTLET IS LOCATED WITHIN 6 FEET OF A WATER SOURCE.
 - DC-315 INTUMESCENT PAINT TO BE APPLIED ON BACK OF OSB ON WALLS & CEILING AT THICKNESS TO MEET THERMAL BARRIER REQUIREMENTS.
 - ROOF SLOPE AT 0/12

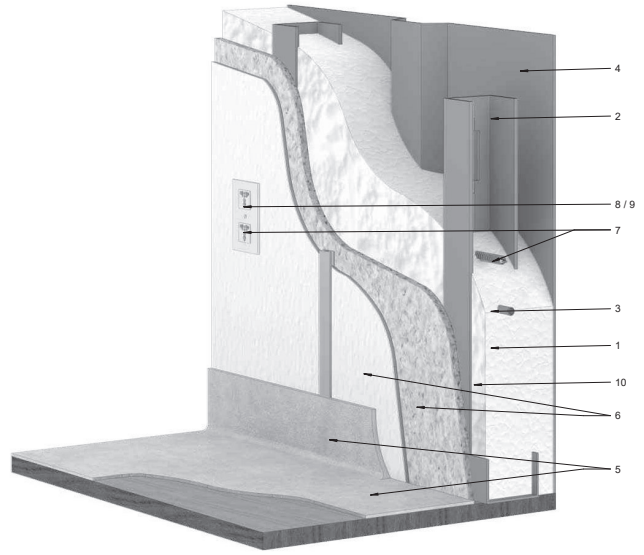
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123126 INC.
REVIEWED FOR:
FLS ACS
DATE: 4/9/2025



APPROVED FOR:
DATE: 4/9/2025



3 TYP. WALL SECTION
1" = 1'-0"



4 WALL SECTION CUT AWAY
3/4" = 1'-0"

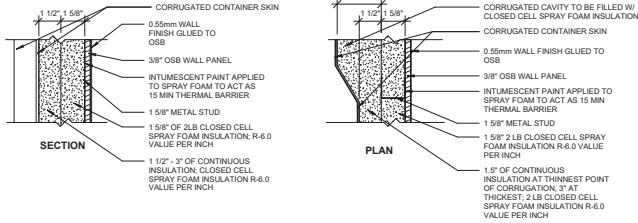
YOLO COUNTY VETERINARY CLINIC
2060 East Green Road

BB24-089
Reviewed for
Code Compliance
Approved:CR

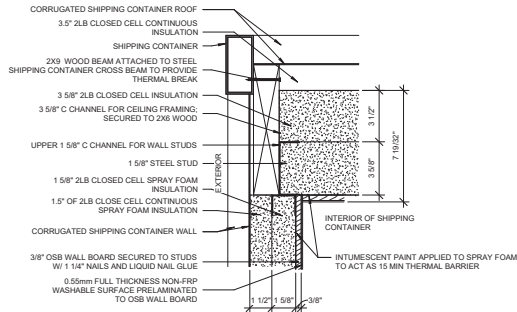
CONSTRUCTION DOCUMENTS

BUILDING SECTIONS

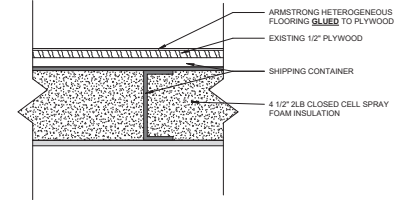
A3.10



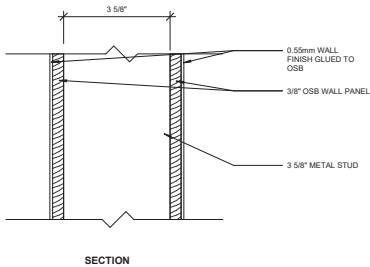
1 TYP. EXTERIOR WALL DETAIL
3" = 1'-0"



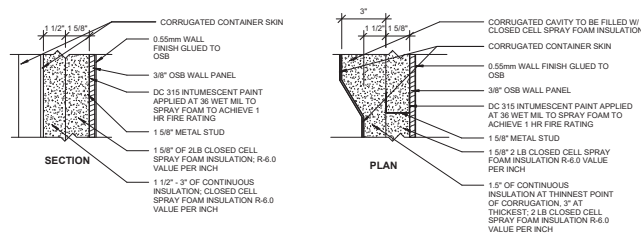
2 TYP. EXTERIOR WALL/ROOF SECTION
3" = 1'-0"



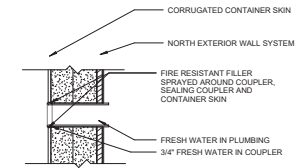
3 FLOOR SECTION
3" = 1'-0"



4 INTERIOR WALL
6" = 1'-0"



5 NORTH WALL EXTERIOR DETAIL
3" = 1'-0"



6 EXTERIOR WALL PENETRATION
3" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123126 INC.
REVIEWED FOR:
FLS ACS
DATE: 4/9/2025

CLINIC
IN A CAN

2040 East Garbano Road
Folsom, CA 95630
916.450.1000

PROJECT NO. 2024-001

DATE: 4/9/2025

SCALE: AS SHOWN

BY: [Signature]

DATE: 4/9/2025

PROJECT NO. 2024-001

YOLO COUNTY VETERINARY CLINIC
2040 East Garbano Road

BB24-089
Reviewed for
Code Compliance
Approved: CR

PROJECT NUMBER: 2024-001

DATE: 4/9/2025

CONSTRUCTION DOCUMENTS

NO. 010

BUILDING DETAILS

NO. 010

NO. 010

NO. 010

NO. 010

NO. 010

NO. 010

NO. 010

NO. 010

NO. 010

NO. 010

NO. 010

NO. 010

NO. 010

NO. 010

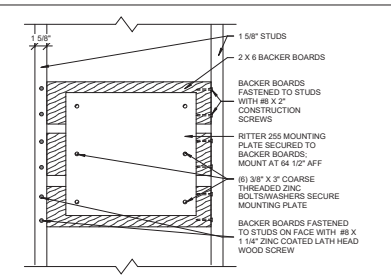
NO. 010

NO. 010

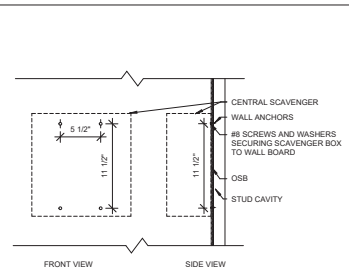
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NO. 010

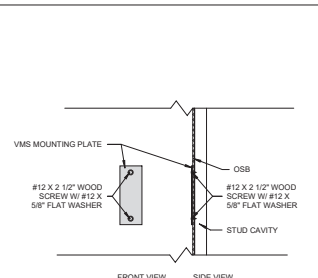
A4.10



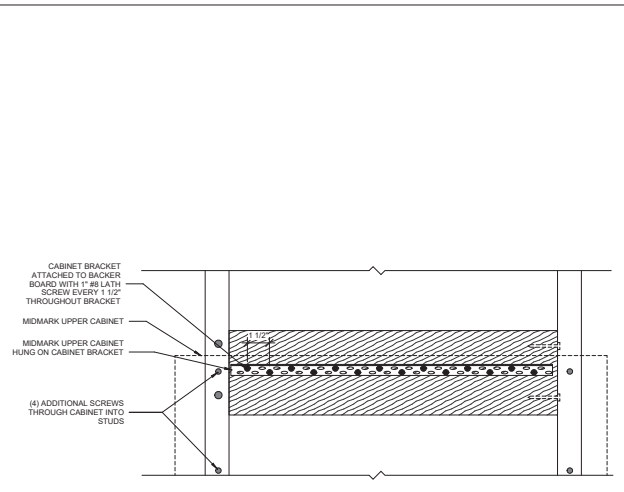
1 RITTER 255 MOUNTING
1 1/2" = 1'-0"



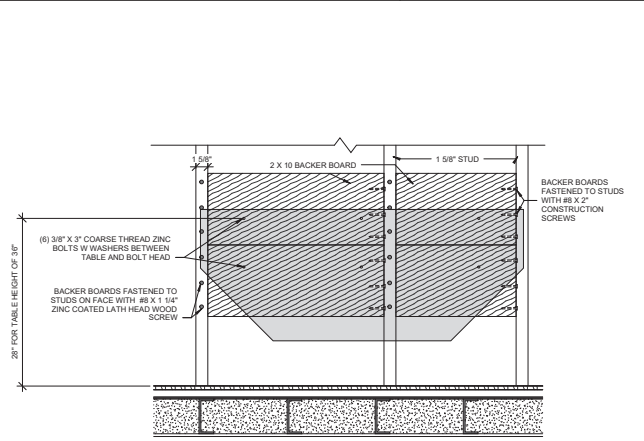
2 SCAVENGER MOUNTING
1 1/2" = 1'-0"



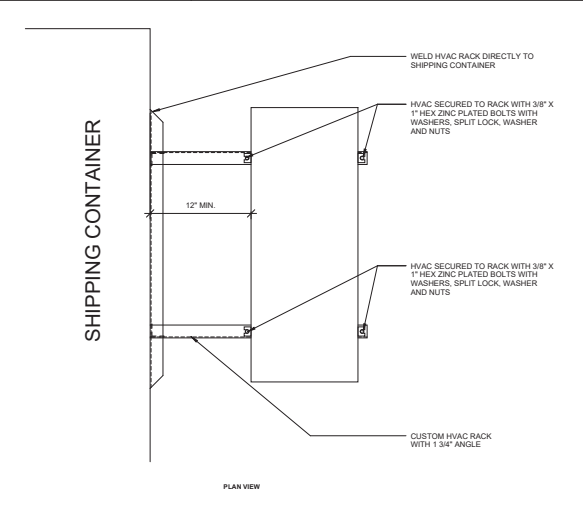
3 VMS ANESTHESIA MOUNTING
1 1/2" = 1'-0"



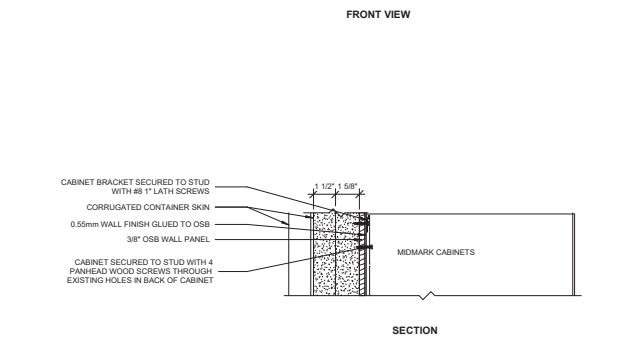
4 CABINET MOUNTING
1 1/2" = 1'-0"



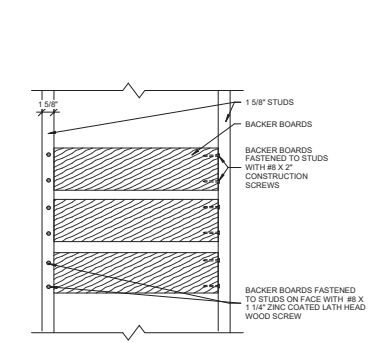
5 DROP DOWN TABLE MOUNTING
1 1/2" = 1'-0"



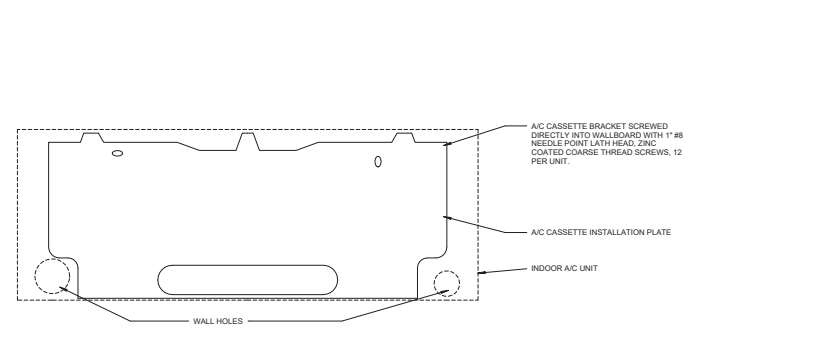
6 HVAC MOUNTING
1 1/2" = 1'-0"



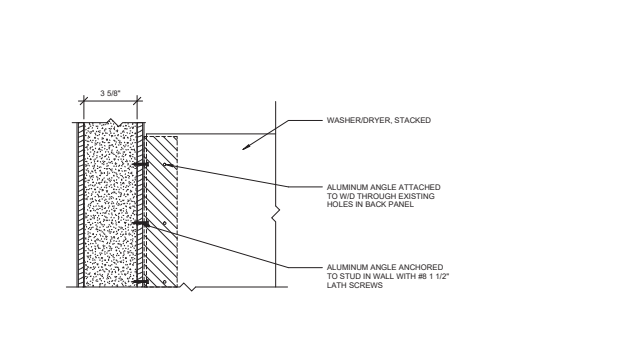
7 CABINET ANCHORING
3" = 1'-0"



8 TYPICAL BACKER BOARD MOUNTING
1 1/2" = 1'-0"

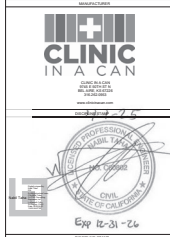


9 A/C CASSETTE MOUNTING
3" = 1'-0"



10 W/D MOUNTING DETAIL
3" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123126 INC.
REVIEWED FOR:
FLS ACS
DATE: 4/9/2025



YOLO COUNTY VETERINARY CLINIC, INC.
2060 East Geary Road

YOLO COUNTY VETERINARY CLINIC
2060 East Geary Road

BB24-089
Reviewed for
Code Compliance
Approved: CR

CONSTRUCTION DOCUMENTS

EQUIPMENT MOUNTING DETAILS

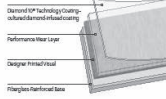
A4.11

HETEROGENEOUS SHEET FLOORING

Nidra™ | Zenscape™

Product Information

Construction: Heterogeneous
 International Specifications: ASTM F5333, Type I, Class B
 Overall Thickness: 0.080 in. (2.0 mm)
 Wear Layer Thickness: 0.022 in. (0.55 mm)
 Factory Finish: Diamond IP Technology
 Installation: S-906 Adhesive, Flip/Spray Adhesive,
 Heat Weld or S-763 Seam Adhesive
 Maintenance Options: Polish Optional



Packaging

Roll Length	Roll Width	Shipping Weight per Roll
100 ft (30.5 m)	6.6 ft (2.0 m)	250 lbs (113 kg)

Testing

Performance	Test Method	Requirement	Performance Requirement
Ball Pounce	ATM1026	<0.001 in.	Meets
Residual Adhesion	ATM1014	>0.001 in.	Meets
Shin Load Resistance @ 15 psi	ATM1010	>0.001 in.	Meets
Flexibility	ATM1011	10 in. flexible section breaks in wear surface	Meets
Resistance to Chemicals	ATM1003	No more than slight changes in surface color, gloss or staining	Meets
Resistance to Heat	ATM1014	at 4.9	Meets
Resistance to Light	ATM1010	at 4.9	Meets
Additional Testing			
Fire Test Data - Flame Spread	ATM1034	0-45 when in Class 1	Meets
Fire Test Data - Smoke Evolution	ATM1030	450 or less	Meets
Fire Test Data - Charred	ATM1032	See dependent	Complies (Charred: 0.1 mm)
Impact Resistance	ATM1017	<0.001 in.	Meets
Static Load Resistance	EN6612	See dependent	Meets (Min. 2.0 kN)
Scratch Resistance	ISO 6461:2002	-	No Observed Scratch
Acid Resistance	ASTM D1887	-	Meets
Acid Resistance	ASTM D1887	>250V	Meets (min. 250V)
Shin, Cleat or Footwear**	ATM1004/1040/1041	<0.5 in.	Meets

HETEROGENEOUS SHEET FLOORING

Nidra™ | Zenscape™

Sustainability

WELL-Being Feature	Nidra/ Zenscape	Contribution
Air	✓	Meets and Exceeds Green Building (LEED) v4.1
Water	✓	Meets and Exceeds Green Building (LEED) v4.1
Material	✓	Meets and Exceeds Green Building (LEED) v4.1
Energy	✓	Meets and Exceeds Green Building (LEED) v4.1
Indoor Air Quality	✓	Meets and Exceeds Green Building (LEED) v4.1
Health & Safety	✓	Meets and Exceeds Green Building (LEED) v4.1
Community	✓	Meets and Exceeds Green Building (LEED) v4.1

LEED® v4.1	Nidra/ Zenscape
MR-C100	Meets
MR-C101	Meets
MR-C102	Meets
MR-C103	Meets
MR-C104	Meets
MR-C105	Meets
MR-C106	Meets
MR-C107	Meets
MR-C108	Meets
MR-C109	Meets
MR-C110	Meets
MR-C111	Meets
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MR-C141	Meets
MR-C142	Meets
MR-C143	Meets
MR-C144	Meets
MR-C145	Meets
MR-C146	Meets
MR-C147	Meets
MR-C148	Meets
MR-C149	Meets
MR-C150	Meets

Limited Warranty
 10-year Commercial warranty when installed in accordance with the manufacturer's instructions.
 A 10-year warranty applies when installed with S-906 Adhesive.

Visit ArmstrongFlooring.com for complete Product, Technical, Adhesive, Installation & Maintenance recommendations.



COMMERCIAL INTERIORS | DURO-LAM™ WALL PANELS



WOOD ENHANCED PERFORMANCE
 DURO-LAM™ combines the structural strength of wood with the exceptional durability of a top layer of PALS-TEX™ laminate. DURO-LAM has a Class C Fire Rating per the ASTM E-84, but is also available with a Class A Fire Rated laminate. For applications where a solid substrate is already present, DURO-LAM Lite is the perfect solution to a quality installed substrate on your wall. The panels are rigid and set in place with studs spaced 16" or 24" on center. They are easy to install using our 2-piece nailing system and mechanical fasteners, or our specially designed adhesive. A waterproof construction is easily achieved by using a silicone caulk to seal the joints. All of the mechanical fasteners can be hidden using our invisible method of installation. Create a beautiful wall system in no time at all!

FEATURES & BENEFITS
 100% WATERPROOF LAMINATE
 • Non-absorbent surface
 • Mold and mildew resistant
 • Available in 3 finishes on OSB or plywood
 • Easy to install

EXCEPTIONAL PROPERTIES IN A STRUCTURAL PANEL
 • Structural strength of wood enhanced by the water and chemical resistance of a thick plastic skin
 • Excellent for acoustics
 • Dual laminations available for panels where both sides are visible

LAMINATE IS CHEMICALLY RESISTANT
 • Impervious to most chemicals
 • Use cleaners of all types without damage
 • No yellowing or color change with excessive environments
 • Unaffected by petroleum products

PRODUCT USES
 • Animal confinement
 • Food processing
 • Commercial kitchens and restaurants
 • Industrial wall coverings
 • Portable classrooms and offices

DURO-LAM™ is a pre-constructed wall panel created by laminating PALS-TEX™ to the surface of either OSB or Plywood. When you need the structural strength of wood with a durable, easy to clean surface, DURO-LAM is the panel for you. Install directly to steel or wooden studs, and complete your project in no time at all. DURO-LAM is available in various colors and finishes. DURO-LAM is also available with a Class A Fire Rated laminate per the ASTM E-84. DURO-LAM can brighten surroundings, reduce required lighting, and is the perfect wall panel for a variety of commercial applications such as convenience stores, food processing plants, factories, retail stores, and animal housing facilities.



P.O. Box 338, 104 Yoder Drive, Middlebury, IN 46540 • Toll Free: 800.835.4110 • Phone: 574.825.4336 • www.parklandperformance.com

NATURAL THERM 2.0 LBS/IBW CLOSED CELL SPF

Physical Properties

PROPERTY	TEST METHOD	VALUE
Thermal Resistance	RSI-100	0.18
Thermal Conductivity	k	0.055
Thermal Diffusivity	SI	0.00001
Thermal Capacity	SI	0.00001
Thermal Expansion	SI	0.00001
Thermal Shrinkage	SI	0.00001
Thermal Stability	SI	0.00001
Thermal Shock	SI	0.00001
Thermal Fatigue	SI	0.00001
Thermal Aging	SI	0.00001
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Thermal Fatigue	SI	0.00001
Thermal Aging	SI	0.00001



DC315 Intumescent Coating

Distributed by FDR Technologies, LLC
855 SE 30th Street, Suite C
Orlando, FL 32819
fdrtechnologies.com 405-702-0055

Description

DC315 is a single component, water based intumescent coating tested to meet Building Code requirements for the fire protection of Spray Polyurethane Foam (SPF). Tested and evaluated in the USA by UL and ICC-ES, and in Canada by ULG and CCMC. DC315 is fully AIA/ICC Compliant and satisfies the International Building Code (IBC), International Residential Code (IRC), National Building Code of Canada (NBCC) and many other National and International building codes. DC315 offers more tested systems to meet interior thermal and ignition barrier requirements AND DC315 has been tested as a component of exterior wall systems in accordance with the NFPA 285 and meets IBC Section 2003.5 with various architectural cladding options. The Choice is clear, DC315 is the most tested and approved fire protective coating for SPF insulation on the market today!



DC315 Tested Solutions for Spray Polyurethane Foam

- More certified full scale alternative Thermal and Ignition Barrier tests over SPF
- Code Compliance Evaluated by IAPMO EIR-492 and ICC-ES ESR-1300 for the USA market
- Code Compliance Evaluated by CCMC #143004R and ULG E20270 for the Canadian market
- NFPA 285 Tested and Listed by UL File #E100010 as a component of exterior wall systems with various architectural claddings
- DC315 manufacturing facilities are [audited, listed and inspected](#)
- Tested useful life, fire performance not compromised after 50 years,
- Topcoat for odor, weather and moisture protection, tested full scale via NFPA 285
- ANSI Z39.1 testing for incidental food contact
- Passed CA-1350 - qualifies DC315 as a low-emitting material for LEED and Green Building standards
- Passed strict EPA - VOC and AQMD air emission requirements
- No formaldehyde, RoHS
- "Single Coat Coverage" on walls and ceilings
- Meets Life Safety Code NFPA 101

Specifications:

- Finish:** Flat
- Color:** Ice Gray, White and Charcoal Black
- V.O.C.:** 11.3 g/l H2O
11.4 g/l H2O Water
- Volume Solids:** 47%
- Drying Time:** To Touch: 1-2 hours
recoat: 4 to 8 hours
- Type of Cure:** Evaporation
- Flash Point:** None
- Reducer/Cleaner:** Water
- Shelf Life:** 10-24 months (unopened)
- Packaging:** 5 & 55-gallon containers
5-gallon pail - 58 lbs
95-gallon drum - 480 lbs.
- Shipping weight:**
- Application:** Brush, roller, airless spray
- QAI Listed:** Fix #1117

*FOR USA ONLY - View our online [Testing Matrix](#) for a complete list of all foams DC315 has been tested and approved with as Thermal or Ignition barriers.

International Building Code Fire Performance Requirements for SPF: The International Building Code (IBC) mandates that SPF be separated from the interior of the building by a 15-minute thermal barrier, or other approved covering. DC315 passed certified NFPA 285 testing over all major brands and types of open and closed cell spray applied polyurethane foams. This finished assembly testing, conducted by IAS certified testing facilities, complies with the requirements of 2012 IBC Section 603.1.2 and Section 2003.10, 2015 IRC Section 2003.9 and Section 603.1.

Alternative Ignition Barrier Assemblies: DC315 meets the requirements for ignition barrier protection in unoccupied spaces as per AG-371, Appendix A.

Exterior Wall Systems: DC315 has been tested as a component of exterior wall systems in accordance with the NFPA 285 and meets 2015 IBC Section 2003.5 with various architectural cladding options.

National Building Code of Canada: DC315 prevents flashover for 10 minutes for Combustible Construction or 20 minutes for Non-Combustible construction when tested to the CANULC S-140 Standard. This testing has been shown to exceed the protection of CANULC S-124 tested materials and meets the intent of NBC Section 3.1.5.12 for the protection of foamed plastics.

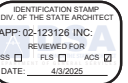
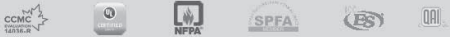
European Union: DC315 has been tested over both medium density and low-density spray polyurethane foam and provides an EN13501-1 Fire Classification of B-S2-D0.

Australia and New Zealand: DC315 has been tested to the AUS ISO- 9705 standard over spray polyurethane foam and meets Group 2 Classification. ISO2000 (part 1 and 2) tests confirm Group number classification as 1 which allows for the addition of the thermal barrier coating to upgrade the fire rating of the underlying spray foam.

END USE APPLICATIONS: DC315 is designed as an interior Fire Protective Coating used to protect spray foam insulation from the interior conditioned space of a building. DC315 can also be used in many different applications such as cold storage, parking garages and agricultural buildings by following a few additional steps to address these types of environments. When installing DC315 in unconditioned spaces the coating and the SPF are exposed to variations in environment that needs to be accounted for by the installer/end user, when designing the full system. Care needs to be taken to ensure that the correct products are specified based on the expected service or environmental conditions. Topcoats are not required to meet the certified fire testing however should be considered for use where/when conditions warrant. Suitability for a particular end use condition shall be determined by code and inspection authorities, architects, specifiers, contractors, installers or any user of DC315. This guide does not purport to address all unconditioned or conditioned environmental concerns if any, associated with a specific project.

Testing

- USA**
- ASTM E84 - Flame Spread 0 Smoke 10
 - NFPA 285 - Complies with Acceptance Criteria of IBC/IRC
 - ASTM E2768 - 20-minute Ignition Resistant Material
 - NFPA 285 - Exterior Wall System with various claddings
- Canada**
- CANULC S162 - FSR 0 SDC 20
 - CANULC S 181 - up to 1 hr assembly rating
 - CANULC S705 - 10- and 20-minute testing
 - CANULC S-145 - 20 Minute Rating
- European Union**
- BS 476 Part 6 & 7
 - BS EN 160 11929-2
 - EN 13823
 - EN 13501 Classification B-S2-d0
- Australia/New Zealand**
- AUS ISO 9705
 - AS/NZS 1530.3
 - AS 5637 1 Group Classification 2,
 - NZBC Group 2-S
 - ISO 5658 Parts 1 and 2
- Physical Properties Testing**
- ASTM D522 Flexibility, Mandrel Bend
 - ASTM D4641 Adhesion (pull off strength)
 - ASTM D4595 Moisture resistance for 100 hours
 - ASTM D4687 / ASTM G154 Accelerated Weather QUV 500 hours
 - ASTM D3329 Tape Adhesion
 - ASTM D2486 Soda Resistance
 - ASTM E661 Durability, Impact, Concentrated load



BB24-089
Reviewed for Code Compliance
Approved:CR

YOLO COUNTY VETERINARY CLINIC
2060 East Geary Road

BB24-089
Reviewed for Code Compliance
Approved:CR

CONSTRUCTION DOCUMENTS

PROJECT MATERIAL SPECIFICATIONS

A4.13

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-123126 INC.
 REVIEWED FOR: FLS ACS
 DATE: 4/9/2025

**CLINIC
 IN A CAN**

Professional Engineer Seal
 CIVIL
 STATE OF CALIFORNIA
 No. 12-31-26
 EXPIRES 12/31/26

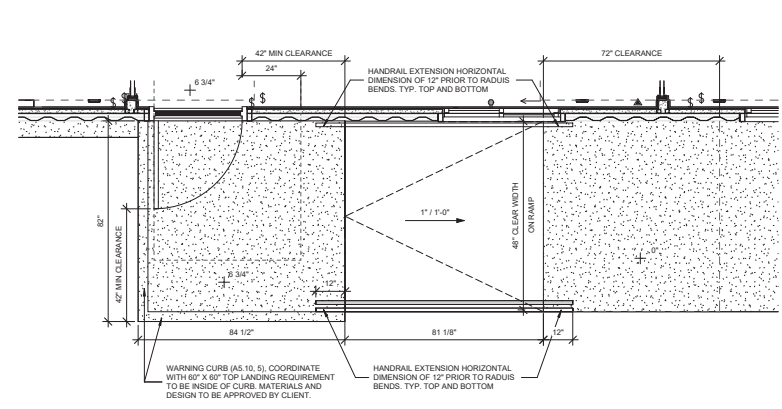
YOLO COUNTY VETERINARY CLINIC
 2060 East Clearwater Road

BB24-089
 No. Description Date
 Reviewed for Code Compliance
 Approved: CR

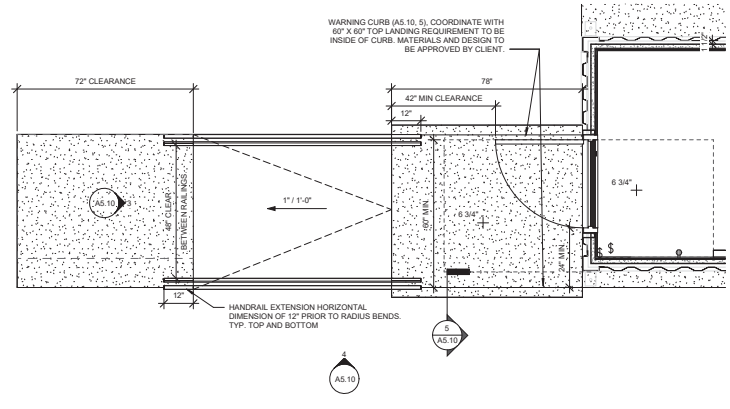
CONSTRUCTION DOCUMENTS

RAMP/LANDING PLAN & DETAILS

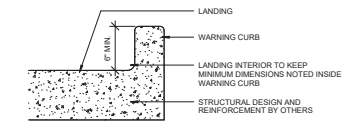
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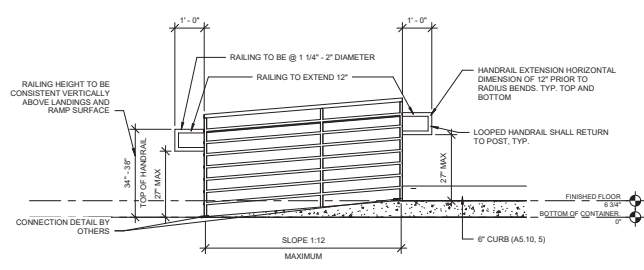
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 1/2" = 1'-0"



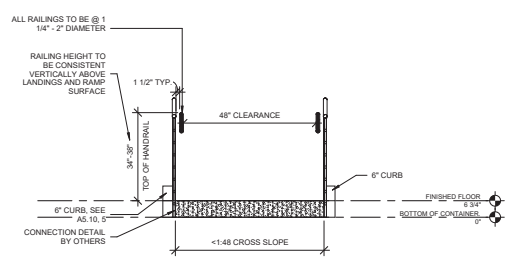
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 1/2" = 1'-0"



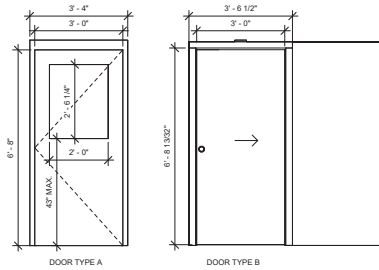
5 WARNING CURB
 1/2" = 1'-0"



4 TYP. RAMP SIDE ELEVATION
 1/2" = 1'-0"

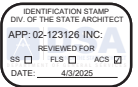


3 TYP. RAMP ELEVATION
 1/2" = 1'-0"



DOOR LEGEND
1/2" = 1'-0"

Door Schedule																
Mark	Type	Comments	Height	Width	Finish	Frame Material	Fire Rating	U-Factor	Closer Y/N	Pull	Lock	Threshold	Sweep	Hinges	Clear Width	Comments
1	A		6' - 8"	3' - 0"	METAL	METAL	N/R	0.42	Y	(2) Augusta AU X CN	Yale 8800 Exit Lock	Aluminum Saddle	Aluminum Pemko 345_PK	Steel STD NRP	2' - 8"	
2	A		6' - 8"	3' - 0"	METAL	METAL	N/R	0.42	Y	(2) Augusta AU X CN	Yale 8800 Exit Lock	Aluminum Saddle	Aluminum Pemko 345_PK	Steel STD NRP	2' - 8"	
3	B		6' - 11 15/16"	6' - 3 5/32"	METAL	METAL	N/R	0.42	N	N/A	Rockwood 891	Aluminum Saddle	N/A	N/A	2' - 8"	SLIDING POCKET DOOR
4	B		6' - 11 15/16"	6' - 3 5/32"	METAL	METAL	N/R	0.42	N	N/A	Rockwood 891	Aluminum Saddle	N/A	N/A	2' - 8"	SLIDING POCKET DOOR



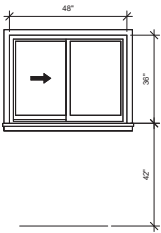
YOLO COUNTY VETERINARY CLINIC

2060 East Gibson Road



6/27/24

YOLO COUNTY VETERINARY CLINIC
2060 East Gibson Road



WINDOW TYPE A
WINDOW LEGEND
1/2" = 1'-0"

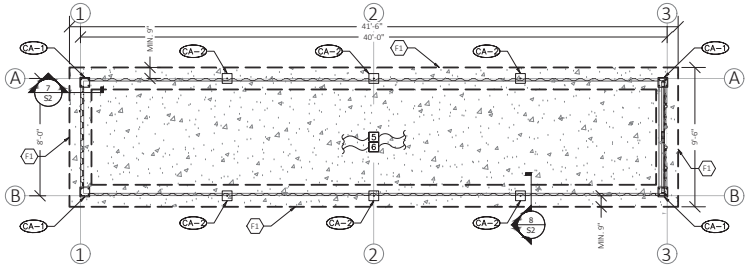
Window Schedule							
Mark	Type Mark	Sill Height	Height	Width	Manufacturer	Model	OPERATION
001	A	3' - 6"	3' - 0"	4' - 0"	JELD-WEN	CUSTOM	SLIDING
003	A	3' - 6"	3' - 0"	4' - 0"	JELD-WEN	CUSTOM	SLIDING
004	A	3' - 6"	3' - 0"	4' - 0"	JELD-WEN	CUSTOM	SLIDING

BB24-089
Reviewed for Code Compliance
Approved:CR

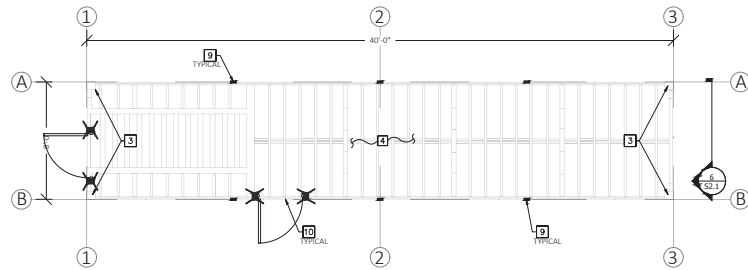
CONSTRUCTION DOCUMENTS

DOOR/WINDOW SCHEDULE

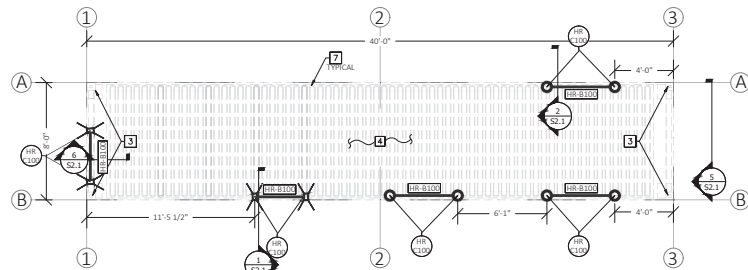
A6.10



1 FOUNDATION PLAN
Approximate Scale: 1/8" = 1'-0"



2 FLOOR FRAMING PLAN
Approximate Scale: 1/4" = 1'-0"



3 CEILING FRAMING PLAN
Approximate Scale: 1/4" = 1'-0"

MARK	SIZE	MATERIAL	CAMBER (INCH)	REMARKS
HR-B100	HSS 5X2X6	A500 GR.C	-	L1H - (LONG LEG HORIZONTAL) DOOR / WINDOW FRAME

10 STEEL BEAM SCHEDULE
N.T.S.

MARK	COLUMN DESIGNATION	STEEL TYPE	BASE CONNECTION	TOP CONNECTION	REMARKS
HR-C100	HSS 5X2X6	A500 GR.C	1 & 2 / S2.1	1 & 2 / S2.1	DOOR / WINDOW FRAME

11 STEEL COLUMN SCHEDULE
N.T.S.

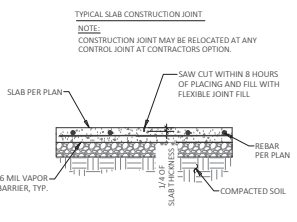
MARK	DIMENSION	BOTTOM REINFORCEMENT	TOP REINFORCEMENT		DETAIL NO / REMARKS	
			LONGITUDINAL	TRANSVERSE		
F1	CONT.	18"	24"	2#4	2#4	

BOTTOM OF FOOTINGS SHALL BEAR ON FIRM NATURAL UNDISTURBED SOIL, COMPACTED STRUCTURAL FILL, OR UNDISTURBED SOLID BEDROCK, AS APPLICABLE, AT LEAST 1'-0" OR PROST DEPTH BELOW PWD SUBGRADE (LOWEST ADJACENT GRADE). REFER TO SHEET S1 FOR ADDITIONAL INFORMATION.

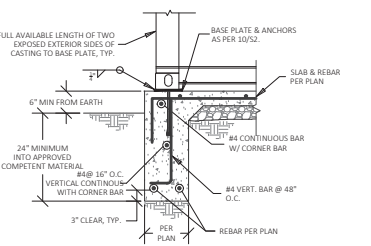
4 FOOTING SCHEDULE
N.T.S.

ANCHOR CALLOUT	ANCHOR BRACKET	EMBED DEPTH	CONNECTING MEMBER	NOTES
CA-1	(4) 3/4" Ø HILTI HIT-HY 200 V3 + HAS-V-36 (ASTM F1554 GR.36) OR HILTI KWIKBOLT T22 - CS 1 EXPANSION ANCHOR OR F1554 HEADED STUD OR 1 BOLT OR HEAVY HEX BOLT	4"	CONTAINER CORNER CASTING COLUMNS TO BASE PLATE	10 / S2
CA-2	(1) 3/4" Ø HILTI HIT-HY 200 V3 + HAS-V-36 (ASTM F1554 GR.36) OR HILTI KWIKBOLT T22 - CS 1 EXPANSION ANCHOR OR F1554 HEADED STUD OR 1 BOLT OR HEAVY HEX BOLT	4"	CONTAINER BOTTOM RAIL TO BASE PLATE	10 / S2

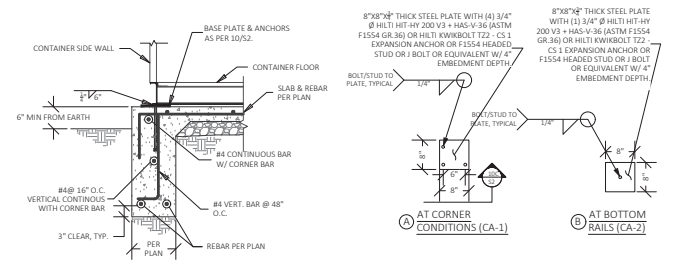
5 ANCHOR BOLT SCHEDULE
SCALE: N/A



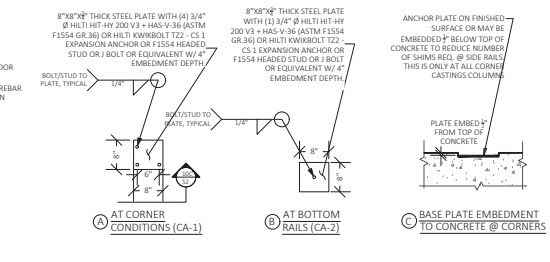
6 TYPICAL SLAB CONTROL JOINT
Scale: N.T.S.



7 FOUNDATION DETAIL @ TURN-DOWN
SCALE: N.T.S.



8 FOUNDATION DETAIL @ TURN-DOWN
SCALE: N.T.S.

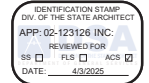
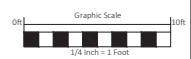


9 BASE PLATE & ANCHOR BOLT DETAILS
N.T.S.

- LEGEND:**
- NON-LOAD BEARING WALL ABOVE THIS FLOOR.
 - COLUMN SUPPORTING NEXT FLOOR/ROOF UP.
 - DISCONTINUOUS COLUMN SUPPORTING THIS FLOOR/ROOF UP.
 - STUB, SHORT POST FOR WINDOW FRAME (NOT TO SCALE).
 - INDICATES SHEET NOTES.
 - INDICATES COLUMN MARK. REFER TO COLUMN SCHEDULE ON SHEET S4.
 - INDICATES ANCHOR BOLT OR HOLD-DOWN MARK. REFER TO HOLD-DOWN SCHEDULE & ANCHOR BOLT SCHEDULE ON SHEET 4 / S2.
 - NUMERICAL VALUE, 1, 2, 3, ETC.

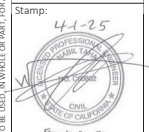
SHEET NOTES:

- REFER TO S1 FOR STRUCTURAL GENERAL NOTES AND TO OTHER SHEETS FOR DETAILS.
- VERIFY ALL DIMENSIONS WITH THE MANUFACTURER'S DRAWINGS. DO NOT SCALE DRAWINGS. (DIMENSIONS PROVIDED MAY BE THE NOMINAL DIMENSIONS OF THE CONTAINER. CONTRACTOR/FABRICATOR, OWNER, AND/OR ARCHITECT TO VERIFY ACTUAL DIMENSION BEFORE CONSTRUCTION.)
- THE EXISTING CONTAINER COLUMN IS TO REMAIN UNMODIFIED UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS, TYP.
- EXISTING CONTAINER FLOOR AND ROOF ARE TO REMAIN.
- 6" THICK CONCRETE SLAB ON GRADE OVER 4" OF FREE DRAINING 3/4" ROCK. DRAIN ROCK SHALL CONTAIN NO FINES TO PROVIDE A CAPILLARY MOISTURE BREAK. PROVIDE A 10 MIL VAPOR BARRIER UNDER LIVING AREAS, BASEMENT, USABLE AREAS, AND BELOW-GRADE AREAS. VAPOR BARRIER IS NOT REQUIRED IN ABOVE-GRADE GARAGES. CHECK WITH THE OWNER FOR HIS/HER PREFERENCES. REINFORCE SLAB WITH #4 BARS @ 12" O.C. BOTH WAYS AT SLAB MID-THICKNESS.
- SLAB ON-GRADE CONTROL JOINT @ 10' MAX. SPACING AS PER 6/52.
- STEEL MODULAR CONTAINER EXISTING WALLS / FRAME USED AS LATERAL FORCE RESISTING SYSTEM, LENGTHS PER PLAN.
- THE ARCHITECT AND FABRICATOR SHALL REVIEW THE DIMENSIONS SHOWN ON THE STRUCTURAL PLANS TO MAKE SURE IT IS IN COMPLIANCE WITH BOTH THE ARCHITECTURAL DRAWINGS AND WITH THE MAXIMUM WIDTH ALLOWED FOR TRANSPORTING.
- NEW STEEL SHIM PLATES UNDER CONTAINER BOTTOM RAIL INTO FOUNDATION AT THESE LOCATIONS & ALSO ANCHOR BOLT LOCATIONS AS NEEDED. SEE S02.
- THE CONTAINER BOTTOM RAIL SHOULD BE REINFORCED WITH # THICK STEEL FLAT BAR OR BENT PLATE AS PER DETAIL 384/S2.1 AT THIS LOCATION.
- CENTER FOOTING UNDER WALLS AND POSTS UNLESS OTHERWISE NOTED ON PLANS AND/OR DETAILS.
- LIMIT LIVE LOAD DEFLECTION TO SPAN OVER 480 FOR COLUMNS, BEAMS, FLOOR TRUSSES AND ALL STRUCTURAL MEMBERS.
- USE LIGHT WEIGHT EQUIPMENT TO COMPACT THE SOIL WITHIN 2 FEET AROUND FOUNDATION/BASEMENT WALL.
- ROOF DRAINAGE SHALL BE DIRECTED AWAY FROM FOUNDATION.



Project: YOLO CLINIC - 40' CONTAINER VETERINARY CLINIC
2640 East Gibson Rd, Woodland, CA 95776.

Owner: CLINIC IN A CAN



DATE	DESCRIPTION

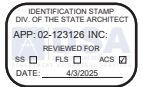
BE 24-089
Reviewed for Code Compliance
Approved by: [Signature]

Project #: CLINIC IN A CAN 224-001

Title: FOUNDATION, FLOOR FRAMING PLAN & DETAILS

Page: S2

Structural details for this project are for illustration only. They are not drawn to scale unless noted otherwise. Contractor must verify all dimensions before fabrication or construction. Do not scale drawings.



250 Main St. Suite A
Klamath Falls, OR 97601
www.structure1.com
Phone: (541) 850-6300
info@structure1.com

Project: YOLO CLINIC - 40'
CONTAINER
VETERINARY
CLINIC
2640 East Gibson Rd,
Woodland, CA 95776.

Owner:
CLINIC IN A CAN



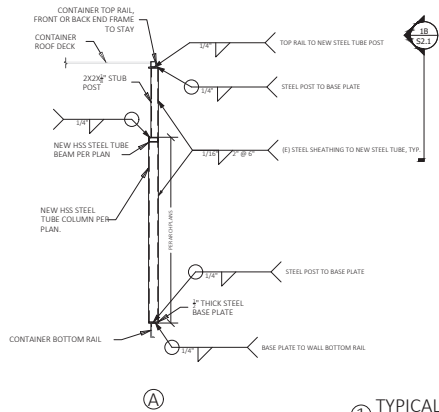
DATE	REVISION	DESCRIPTION

BE 24-089
Reviewed for
Code Compliance
Approved: CS
DESIGNED BY: Nabil Taher
Date: 2025-01-30

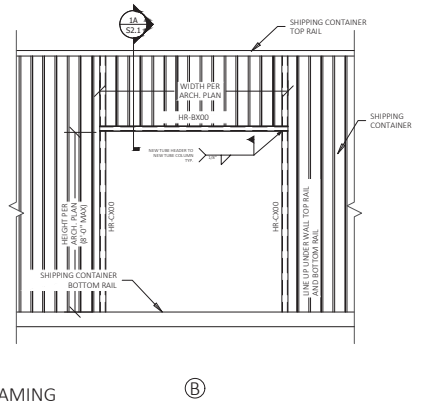
Project #:
CLINIC IN A CAN
224-001

Title:
TYPICAL FRAMING
DETAILS

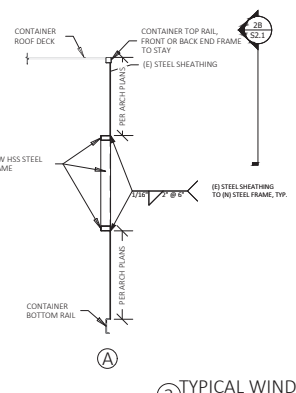
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S2.1



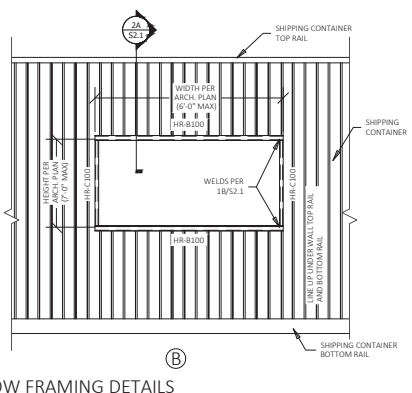
1 TYPICAL DOOR FRAMING
N.T.S.



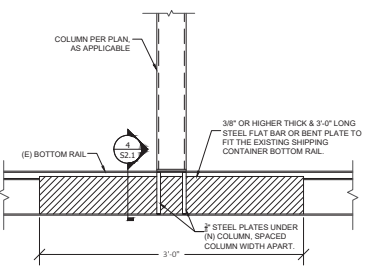
2 TYPICAL WINDOW FRAMING DETAILS
N.T.S.



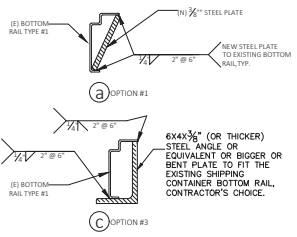
3 TYPICAL WINDOW FRAMING DETAILS
N.T.S.



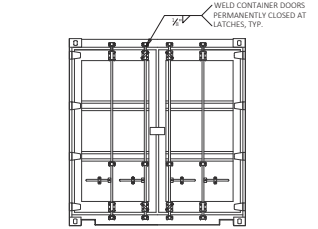
4 TYPICAL WINDOW FRAMING DETAILS
N.T.S.



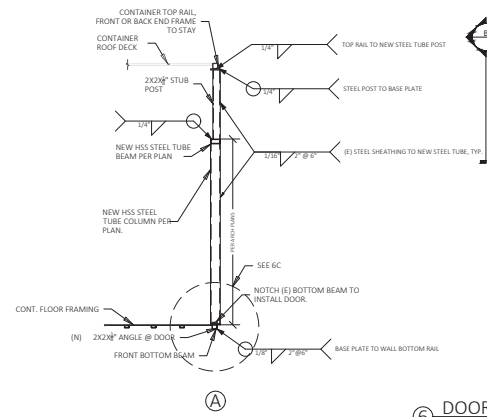
5 BOTTOM RAIL REINFORCEMENT
Scale: NTS



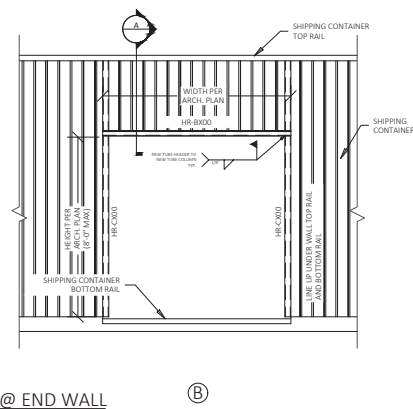
6 BOTTOM RAIL REINFORCEMENT SECTION
Scale: NTS



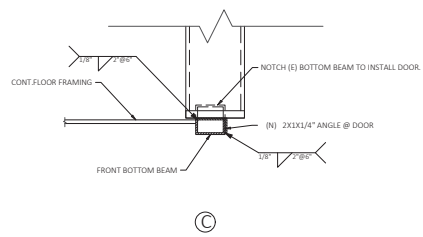
7 CONTAINER DOOR WELDING DETAIL
N.T.S.



8 DOOR FRAMING @ END WALL
N.T.S.



9 DOOR FRAMING @ END WALL
N.T.S.



10 DOOR FRAMING @ END WALL
N.T.S.

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SPLIT SYSTEM HEATING & COOLING UNITS

MARK	COOL KBH	HEAT KBH		CFM	ESP	MOTOR		UNIT MCA	WT LBS	SEER	EER	HSPF	LINE SIZE		MANUFACTURER AND MODEL	COMMENTS
		TC	HIGH(47)			LOW (17)	HP						V/PH	GAS		
HP-1	22	24.6	14	-	-	-	230/1	22.1	137	20	13.6	9.8	-	-	MITSUBISHI MSZ-3C24NA2-U1	① ⑥
AH-1A	6	7.2	-	400	0.1	-	230/1	1	22	-	-	-	3/8	1/4	MITSUBISHI MSZ-GLO6NA-U2	② ③ ④ ⑥
AH-1B	6	7.2	-	400	0.1	-	230/1	1	22	-	-	-	3/8	1/4	MITSUBISHI MSZ-GLO6NA-U2	② ③ ④ ⑥
AH-1C	6	7.2	-	400	0.1	-	230/1	1	22	-	-	-	3/8	1/4	MITSUBISHI MSZ-GLO6NA-U2	② ③ ④ ⑥

- ① MOUNT OUTDOOR UNIT ON VIBRATION PAD AND PROVIDE CLEARANCES PER MANF. GUIDELINES
- ② PROVIDE A CONDENSATE DRAIN LINE FOR EACH INDOOR UNIT.
- ③ PROVIDE 16/2 STRANDED AND SHIELDED WIRE TO ALL CONTROLLERS
- ④ PROVIDE FILTER RACKS AND MERV 13 FILTERS
- ⑤ ROUTE ANY UNDERSLAB REFRIGERANT LINES IN PVC SLEEVE PER MANF GUIDELINES
- ⑥ EQUIPMENT SIZES APPROVED BY ACAA TO MEET ALL REQUIREMENTS OF MANUAL S 8TH EDITION

FANS													
MARK	LOCATION	CFM	ESP	CFM CONT.	SONES OR TIP SPEED	MOTOR		FAN RPM	MAX AMPS	WATTS	CFM/WATTS	MANUFACTURER MODEL	COMMENTS
						HP	V/PH						
EE-1	HOLDING/RECOVERY	200	0.25"	---	0.3	NA	120/1	908	1.8	9.2	8.8	BROAN 509	① ②
EE-2	TREATMENT/ PREP	200	0.25"	---	0.3	NA	120/1	908	1.8	9.2	8.8	BROAN 509	① ②
EE-3	SURGERY	200	0.25"	---	0.3	NA	120/1	908	1.8	9.2	8.8	BROAN 509	① ②

- ① CEC IAQ REQUIRED VENTILATION-DO NOT MODIFY. PROVIDE MULTI SPEED AND TIME DELAY MODULE
- ② FAN SHALL HAVE BUILD IN BACKDRIFT DAMPER

ABBREVIATIONS

AC	AIR CONDITIONING UNIT	LWT	LEAVING WATER TEMPERATURE
AD	ACCESS DOOR	M	MOTOR
AFF	ABOVE FINISHED FLOOR	MLWS	METAL LOUVER WITH WIRE MESH SCREEN
AHU	AIR HANDLING UNIT	MO	MASONRY OR WALL OPENING
AL	ACOUSTICAL LINING	NC	NORMALLY CLOSED
ALD	AUTOMATIC LOUVER DAMPER	NC	NOT IN CONTRACT
BDD	BACKDRIFT DAMPER	NK	NECK SIZE
BI	BLACK IRON	NO	NORMALLY OPEN
BRD	BAROMETRIC RELIEF DAMPER (PRESSURE REGULATING DAMPER)	NTS	NOT TO SCALE
CAV	CONSTANT AIR VOLUME	OAI	OPPOSED AIR INTAKE
CC	COOLING COIL	ODB	OUTSIDE BLADE DAMPER
CD	CEILING DIFFUSER	P	PUMP
CHWR	CHILLED WATER RETURN	PC	PUMPED CONDENSATE
CHWS	CHILLED WATER SUPPLY	PHC	PRE HEAT COIL
CR(G)	CEILING REGISTER OR GRILLE	PRV	PRESSURE REDUCING VALVE
CWR	CONDENSER WATER RETURN	RA	RETURN AIR
CWS	CONDENSER WATER SUPPLY	RHC	REHEAT COIL
DB	DRY BULB TEMPERATURE	SA	SUPPLY AIR
EAT	ENTERING AIR TEMPERATURE	SD	SMOKE DAMPER
EJ	EXPANSION JOINT	SF	SQUARE FEET
EXH	EXHAUST	ST	SOUND TRAP
EWT	ENTERING WATER TEMPERATURE	S/S	STAINLESS STEEL
FAI	FRESH AIR INTAKE	TF	TRANSFER FAN
FC	FLEXIBLE CONNECTION	TR(G)	TOP REGISTER OR GRILLE
FCU	FAN COIL UNIT	UC	UNDERCUT DOOR (1")
FD	FLOOR DIFFUSER	UH	UNIT HEATER
FRD	FIRE DAMPER	UN	UNLESS OTHERWISE NOTED
FPM	FEET PER MINUTE	V	VENTILATION
H	HUMIDIFIER	VAV	VARIABLE AIR VOLUME REGULATOR
HC	HEATING COIL	VD	VOLUME DAMPER
HRC	HEAT RECOVERY COIL	VF	VARIABLE FREQUENCY DRIVE
HRV	HEATING RECOVERY AND VENTILATING UNIT	VI	VIBRATION ISOLATOR
HWR	HOT WATER RETURN	WMS	WIRE MESH SCREEN
HWS	HOT WATER SUPPLY	WP	WEATHER PROOF
HX	HEAT EXCHANGER	W/SQ,FT	WATTS PER SQUARE FOOT
KW	KILOWATTS		
LAT	LEAVING AIR TEMPERATURE		

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	DISTRIBUTION MANIFOLD
	HYDRONIC BASEBOARD (SEE HEAT SOURCE SCHEMATIC FOR LENGTH AND HEIGHT)
	AIR SUPPLY FLOOR/CEILING REGISTER (CFM AS SHOWN ON PLAN)
	AIR SUPPLY WALL REGISTER (CFM AS SHOWN ON PLAN)
	AIR SUPPLY TOE SPACE REGISTER (CFM AS SHOWN ON PLAN)
	AIR RETURN WALL GRILLE (CFM AS SHOWN ON PLAN)
	AIR EXHAUST IN-LINE FAN
	AIR EXHAUST FAN RECESSED FAN
	DOOR GRILLE OR TRANSFER GRILLE
	THERMOSTAT +60°F
	NEW DUCT ROUND (SUPPLY)
	NEW DUCT ROUND (RETURN)
	NEW DUCT SQUARE (SUPPLY)
	NEW DUCT SQUARE (RETURN)
	MITERED ELBOW WITH TURNING VANES
	DUCT TRANSITION (ROUND OR SQUARE)
	DUCT TRANSITION (RECTANGULAR TO ROUND)
	MANUAL AIR VOLUME DAMPER

REGISTERS

MARK	TYPE	MANUFACTURER MODEL	COMMENTS
CR	CEILING RETURN	TITUS CT-480 3 28 N 00-000 0	①
CR	CEILING DIFFUSER	TITUS CT-480 3 28 N 00-000 0	①
HSR	HIGH SIDE RETURN	TITUS CT-480 3 28 N 00-000 0	①
HSQ	HIGH SIDE SUPPLY	TITUS CT-480 3 28 N 00-000 0	①
JK	TOE KICK	TITUS CT-480 3 28 N 00-000 0	①
LSR	LOW SIDE RETURN	TITUS CT-480 3 28 N 00-000 0	①
ED	FLOOR DIFFUSER	TITUS CT-480 6 28 N 00-000 H	①

- ① PROVIDE MILL FINISH OR CUSTOM PAINT COLOR SPECIFIED BY ARCH.

DUCT SYSTEM INSTALLATION

1. Duct installation shall be in conformance with chapter 6 of the 2022 CMC or as recommended by ACCA Manuals D, J, S, SMACNA manuals, and/or the ASHRAE handbook if approved by officials having jurisdiction. Care shall be exercised to seal all joints and seams to prevent air leakage.
2. Where shown on the mechanical plan and if necessary for other locations, provide rectangular duct of equivalent cross sectional area to the round duct shown to clear obstructions. Provide smooth transitions when the duct shape changes.
3. Flexible vibration isolation connectors shall be installed in sheet metal ductwork at the unit in both the supply and air intake; these shall not exceed 10'0 inches in length. Ductwork shall be properly aligned at these connectors without any offset.
4. Metal ductwork shall be installed in a workman-like manner in accordance with applicable practice given in the ASHRAE handbook or the SMACNA "low pressure duct construction standards" manual. Rigid sheet metal ducts shall be at least the minimum thickness required for their largest dimension and/or the static pressure to which they shall be subjected; they shall be provided with turning vanes or long radius bends both to reduce the pressure loss and to provide a more uniform velocity distribution downstream from the bend. All duct seams and joints shall be airtight and smooth fitting. These shall be sealed with products such as mastic and/or foil-backed tape recommended by the manufacturer for the location where they will be used.
5. Rigid ductwork exposed to view shall be installed in such a manner as to present a neat appearance. The ducts shall be parallel to adjacent architectural surfaces and have as few joints as possible.
6. All metal ducts shall be securely supported, hung, or suspended by metal hangers, straps, or brackets and the support material in contact with the duct, or external insulation, shall not be less than 0.75 inches wide. The hanger spacing for metal duct shall not be more than 10 feet for rectangular duct or 12 feet for round duct. Hangers exposed to view shall be plumb and neat in appearance. All rectangular metal ducts 24 inches or wider and all exterior ducts shall be cross braced or braced to provide additional support. Ducts shall be insulated with fiberglass duct insulation to provide a minimum duct insulation value of R-6. Wye branches and diffuser boots shall be insulated on their exterior surfaces unless they are exposed to the weather, are exposed to view, or could be damaged during occupancy of the building. Any insulating material used shall meet the appropriate specifications required by ASTM e-84, e-553, NEPA 90b, and UL 181. Such insulation shall have 100% coverage and be installed in accordance with the manufacturer's instructions.
7. Flexible air duct shall be UL listed class 1 air duct made with a polyester interior, a moisture impervious sleeve and insulation having an overall r-value not less than 4. Full coverage duct shall be used in locations where high radiant heat loads may be expected. Performance and assembly shall be in strict accordance with details listed in the flexible ductwork manufacturer's application manual or the SMACNA "flexible duct performance standards and installation standards". Tight fitting mechanical clamps and mastic recommended for the location shall be used to seal all joints. Particular attention shall be taken to avoid kinks, sharp bends, or other such obstructions in the duct. Factory made flexible air ducts shall be installed according to their installation instructions and standards set by the code. Duct work shall use pressure-sensitive tapes, mastic, aerosol sealants or other ductwork systems meeting applicable UL 181a and B requirements. Drawdowns used with flexible ducts shall be either stainless-steel, worm driven hose clamps or UV-resistant nylon duct ties. In addition, drawdowns must have a minimum tensile strength rating of 150 pounds an lb tightened as recommended by the manufacturer.
8. Flexible air duct shall be supported at the manufacturer's recommended intervals but in no case shall the intervals between hangers exceed 4.0 ft. The hanger material shall be not less than 2.0 inch diameter. The maximum permissible sag shall be 0.5 inch per foot of spacing between supports. Colars shall be used to attach flexible duct and shall be a minimum of 2.0 inches in length. Colars shall be inserted into the flexible duct a minimum of 1.0 inch before fastening.
9. Readily accessible balancing or volume control dampers with outside locking devices shall be provided as shown on the mechanical plans and/or as needed to regulate the air flow to each register.
10. Supply and return plenums shall be covered with insulation having a value of R-6 or greater on their internal surfaces. Any insulating material used shall meet the appropriated specifications required by ASTM e-84, e-553, NEPA 90b, and UL 181. Such insulation shall have 100% coverage and be installed in accordance with the manufacturer's instructions.
11. Ductwork shall be installed so that it will not contact the ground.
12. Return air grill may be substituted, as desired, based on equal face area.
13. Boot area shall match grill area in all cases. If necessary, boots should be lined with acoustical lining to reduce noise transmission.
14. Plenum shall be lined with acoustical lining.
15. Flat ducts for wall registers shall be 3-1/4"x14" unless shown on the plans.
16. Termination of all environmental air ducts including direct vent termination kits shall be a minimum of 3 feet from any openings into the building (i.e., doors, bath and utility fans, etc., must be 3 feet away from doors, windows, opening skylights or attic vents).
17. Mechanical equipment and duct openings shall be protected during storage and rough installation per 2022 CAL Green section 4.504.1 to reduce the amount of dust or debris which may collect in the system.

Air for combustion

1. Air quantities shall be based on the 2022 California Mechanical Code. If located in a confined space, that space shall be provided with two permanent openings one within 12 inches of the top and one within 12 inches of the bottom of the enclosure. The openings shall communicate directly, or by ducts with the outdoors. When communication with the outdoors is through vertical ducts, each opening shall have a minimum free area of 1.0 square inch per 4000 BTU per hour of total input rating of all equipment in the enclosure. When communication with the outdoors is through horizontal ducts, each opening shall have a minimum free area of 1.0 square inch per 2000 BTU per hour of total input rating of all equipment in the enclosure. If approved by the administrative authority having jurisdiction, communication directly through an exterior wall may be considered as a vertical duct.
2. Duct openings shall be screened with metal mesh having openings of 1/4 inch. Provisions shall be made for the reduction in duct area due to the effects of screens, louvers, etc.

Gas lines

1. Piping shall be new, standard weight wrought iron or steel (exterior-only galvanized or black), with malleable iron fittings. Approved PE (poly-ethylene) pipe may be used in exterior buried piping systems.
2. Exterior piping shall be protected by approved, machine applied protective coating. Field wrapping shall be limited to sections at joints and shall provide equivalent protection to the machine applied coating.
3. Gas lines may not be installed on or under the ground under buildings; they must be at least 6 inches above the ground.
4. Gas lines shall be wrapped with insulation and sleeved where passing through concrete. Piping shall be protected where passing through framing using metal straps designed for the purpose.

MAJOR EQUIPMENT INSTALLATION

1. Installation shall meet all local and national codes pertaining to the installation and operation of plumbing equipment. Unless otherwise required by these standards, the equipment shall be installed in accordance with the equipment manufacturer's recommendations.
2. If "or equal" equipment is to be used, it must meet the performance specifications for the equipment listed, and shall receive prior approval from the mechanical engineer. All requests for substitution shall be furnished with sufficient engineering data to demonstrate that the proposed equipment fulfills all the performance levels of the equipment originally specified. The contractor shall be responsible for all costs associated with the engineering for structural, electrical, duct sizing, etc. Caused by any substitution.
3. Units shall be installed to provide the clearance or clearances specified by the manufacturer or required by the authority having jurisdiction.
4. Units shall have suitable support to prevent transmission of objectionable noise or vibration generated by the equipment to the structure. Outdoor, ground mounted, units shall be located on a level, one piece, concrete pad.
5. Provide and install low voltage control wiring in conduit installed by the mechanical or plumbing contractor using methods contained in the electrical specifications. All wiring of low voltage controls to be accomplished by the electrical contractor.
6. Contractors shall co-ordinate with the electrical contractor to ensure that all electrical accessories such as motor starters, control relays, circuit breakers, etc. Required to make a fully functional systems are provided.

REVISIONS: BY:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123126 INC.
REVIEWED FOR
DATE: FLS ACS
8/11/2024 43/2925

MONTEREY ENERGY GROUP
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YOLO COUNTY VETERINARY CLINIC
26410 EAST GIBSON ROAD

BB24-089
Reviewed for
Code Compliance
Approved: CR

DATE: 01/21/25
SCALE: AS NOTED
DRAWN: MEG
CHECKED:
CHECKED:
FILE NAME:
SHEET:
MO. 1
SHEET OF SHEETS

REVISIONS: **8** BY: **AS**

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-123126 INC.
 REVIEWED FOR:
 88 FLS ACS
 DATE: 4/9/2025

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YOLO COUNTY VETERINARY CLINIC
 26410 EAST GIBSON ROAD

BB24-089
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ENERGY COMPLIANCE

DATE: 01/21/25
 SCALE: AS NOTED
 DRAWN: **MEG**
 CHECKED:
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 FILE NAME:
 SHEET:
MO.2
 SHEET OF SHEETS

CERTIFICATE OF COMPLIANCE - NON-RESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NRCC-PRF-E	
Nonresidential Performance Compliance Method				(Page 1 of 18)	
Project Name:		Yolo County Veterinary Clinic		Date Prepared: 2024-12-17	
A. General Information					
1	Project Name	Yolo County Veterinary Clinic			
2	Fun Title	Title 24 Analysis			
3	Project Location	2640 East Gibson Road			
4	City	Woodland	5	Standards Version	Compliance 2022
6	Za code	99999	7	Compliance Software (version)	EnergyPro 9.2
8	Climate Zone	12	9	Building Orientation (deg)	0
10	Building Type(s)	• Nonresidential			
11	Weather File	SACRAMENTO_INTL_STV920.epw			
12	Project Scope	• New complete scope			
14	Total Conditioned Floor Area in Scope (ft ²)	266			
15	Total Unconditioned Floor Area (ft ²)	0			
16	Nonresidential Conditioned Floor Area	266			
18	Residential Conditioned Floor Area	0			

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CERTIFICATE OF COMPLIANCE - NON-RESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NRCC-PRF-E	
Nonresidential Performance Compliance Method				(Page 3 of 18)	
C1. COMPLIANCE SUMMARY					
COMPLIES¹					
		Time Dependent Valuation (TDV)		Source Energy Use	
		Efficiency ² (kWhu/ft ² · yr)	Total ³ (kWhu/ft ² · yr)	Total ⁴ (kWhu/ft ² · yr)	
Standard Design		492.96	492.96	61	
Proposed Design		399.78	399.78	34.1	
Compliance Margin		93.18	93.18	26.9	
		Pass	Pass	Pass	

¹ Efficiency measures include improvements like a better building envelope and more efficient equipment.
² Compliance Totals include efficiency photovoltaic and batteries.
³ New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded.
⁴ Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded.

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CERTIFICATE OF COMPLIANCE - NON-RESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NRCC-PRF-E	
Nonresidential Performance Compliance Method				(Page 5 of 18)	
C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS¹					
Non-Regulated Energy Component		Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ²	
Receptacle		135.97	135.97	---	
Process		---	---	---	
DHW/Tag		---	---	---	
Process Misc. +		---	---	---	
TOTAL (TOTAL COMPLIANCE - NON-REGULATED COMPONENTS)		428.93	335.75	93.18 (24.5%)	

¹ Note: This table is not used for Energy Code Compliance.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2024-12-17 08:15:46
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CERTIFICATE OF COMPLIANCE - NON-RESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NRCC-PRF-E	
Nonresidential Performance Compliance Method				(Page 2 of 18)	
B. PROJECT SUMMARY					
Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.					
Building Components Complying via Performance			Building Components Complying Prescriptively		
Envelope (See Table G)	Nonres. Performance	Solar Thermal Water Heating (See Table I)	<input type="checkbox"/> Performance	The following building components are OMT eligible for prescriptive compliance and should be documented on the NRCC form listed within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
	MultiFam. Not Included		<input checked="" type="checkbox"/> Not Included		
Mechanical (see Table M)	Nonres. Performance	Covered Process Commerce systems (see Table J)	<input type="checkbox"/> Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-C18-E is required.
	MultiFam. Not Included		<input checked="" type="checkbox"/> Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-L15-E is required.
Domestic Hot Water (See Table I)	Nonres. Performance	Covered Process: Laboratory Exhaust (see Table J)	<input type="checkbox"/> Performance	Building Components Complying with Mandatory Measures	
	MultiFam. Not Included		<input checked="" type="checkbox"/> Not Included	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E).	
Lighting (Indoor Conditioned, see Table K)	Nonres. Performance	Photovoltaics (see Table F)	<input type="checkbox"/> Performance	Electrical Power Distribution 110.11	NRCC-E12-E is required.
	MultiFam. Not Included		<input checked="" type="checkbox"/> Not Included	Commissioning 120.8	NRCC-C08-E is required.
Battery (see Table F)	Nonres. Performance		<input type="checkbox"/> Performance	Solar and Battery 114.1D	NRCC-SAB-E is required.
	MultiFam. Not Included		<input checked="" type="checkbox"/> Not Included		

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2024-12-17 08:15:46
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CERTIFICATE OF COMPLIANCE - NON-RESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NRCC-PRF-E	
Nonresidential Performance Compliance Method				(Page 4 of 18)	
C4. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kWhu/ft² · yr)					
COMPLIES¹					
Energy Component	Standard Design (TDV)		Proposed Design (TDV)		Compliance Margin (TDV) ²
	Space Heating	75.26	54.29	-19.03	
Space Cooling	94.87	114.36	19.49		
Indoor Fans	208.07	124.13	-84.34		
Heat Rejection	0	0	0		
Pump & Misc.	0	0	0		
Domestic Hot Water	35.08	26.31	-8.77		
Indoor Lighting	79.68	41.67	-38.01		
Flexibility	---	---	---		
EFFICIENCY COMPLIANCE TOTAL	492.96	399.78	93.18 (18.9%)		
Photovoltaics	---	---	---		
Batteries	---	---	---		
TOTAL COMPLIANCE	492.96	399.78	93.18 (18.9%)		

¹ Note: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2024-12-17 08:15:46
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CERTIFICATE OF COMPLIANCE - NON-RESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NRCC-PRF-E	
Nonresidential Performance Compliance Method				(Page 6 of 18)	
C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kWhu/ft² · yr)					
COMPLIES¹					
Energy Component	Standard Design (SOURCE)		Proposed Design (SOURCE)		Compliance Margin (SOURCE) ²
	Space Heating	25.05	13.39	-11.66	
Space Cooling	4.43	4.84	0.42		
Indoor Fans	21.76	30.08	8.92		
Heat Rejection	0	0	0		
Pump & Misc.	0	0	0		
Domestic Hot Water	3.28	2.39	-0.89		
Indoor Lighting	6.49	3.4	-3.09		
Flexibility	---	---	---		
EFFICIENCY COMPLIANCE TOTAL	61	34.1	26.9 (44.1%)		
Photovoltaics	---	---	---		
Batteries	---	---	---		
TOTAL COMPLIANCE	61	34.1	26.9 (44.1%)		

¹ Note: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2024-12-17 08:15:46
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CERTIFICATE OF COMPLIANCE - NON-RESIDENTIAL PERFORMANCE COMPLIANCE METHOD											NRCC-PRF-E	
Nonresidential Performance Compliance Method											(Page 11 of 18)	
G5. ORGANIC SURFACE ASSEMBLY SUMMARY												
01	02	03	04	05	06		07	08	09		10	
Surface Name	Construction Type	Area (ft ²)	Framing Type	Cavity R-Value	Continuous R-Value		Units	Value	Description of Assembly Layers		Status ¹	
					Interior	Exterior						
Slab On Grade12	Underground Floor	266	N/A	0	N/A	N/A	F factor	0.73	Slab Type - Unheated slab on grade insulation Orientation - None Insulation R-Value none		N	
Metal Framed Roof14	Roof	266	N/A	0	N/A	32.5	U-factor	0.0296	Metal Standline Seem - 1/18 in. Spine applied - Polyurethane foam - 3.0 in. R/13 - 6 1/2 in. Gypsum Board - 1/2 in. Metal Siding - 1/16 in.		N	
R-19 Wall Metal Seps16	Exterior Wall	663.3	N/A	0	N/A	17.5	U-factor	0.0511	Metal Siding - 1/16 in. Air - Wall - 1/2 in. Spine applied - Polyurethane foam - 3.0 in. R/13 - 3 1/2 in. Gypsum Board - 1/2 in.		N	
¹ Status: N - New, A - Altered, E - Existing												
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance											Report Version: 2022.0.000	Report Generated: 2024-12-17 08:15:46
											Compliance ID: EnergyPro-1282-1224-0302	

CERTIFICATE OF COMPLIANCE - NON-RESIDENTIAL PERFORMANCE COMPLIANCE METHOD						NRCC-PRF-E	
Nonresidential Performance Compliance Method						(Page 9 of 18)	
G4. ENERGY USE INTENSITY (EUI)							
	Standard Design (kBtu/ft ² /yr)	Proposed Design (kBtu/ft ² /yr)	Margin (kBtu/ft ² /yr)	Margin Percentage			
GROSS EUI ¹	102.26	67.5	34.76	33.99			
NET EUI ²	102.26	67.5	34.76	33.99			
¹ Net: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.							
G4. EXTERNAL CONDITIONS							
<ul style="list-style-type: none"> The gdf solar reflectance and aged thermal emittance must be listed in the Cool Roof Rating Council database of certified products. For projects where initial reflectance is used, the initial reflectance must be listed, and the aged reflectance is calculated by the software program and used in the compliance model. The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylight Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LF-02-4) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylight Zones is required. Project is claiming Exception 2 to Section 140.10(6). No PV system is required where the required PV system size is less than 4 kWdc. PV/Battery Building Type has been modified from software defaults for one or more spaces. Review project's PV/Battery Building Type(s) with documentation author. Refer to Energy Code section 140.10 for Nonresidential or 130.10 for more information. 							
G4. ENVELOPE GENERAL INFORMATION (conditioned spaces only)							
01		02	03	04			
Opaque Surfaces & Orientation		Total Gross Surface Area (ft ²)	Total Fenestration Area (ft ²)	Window to Wall Ratio (%)			
North-Facing ¹		246	0	0			
East-Facing ²		56	0	0			
South-Facing ³		305.3	73	23.91			
Notes: ¹ North-facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW). ² East-facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE). ³ South-facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE). ⁴ West-facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW).							
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance						Report Version: 2022.0.000	Report Generated: 2024-12-17 08:15:46
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CERTIFICATE OF COMPLIANCE - NON-RESIDENTIAL PERFORMANCE COMPLIANCE METHOD					NRCC-PRF-E	
Nonresidential Performance Compliance Method					(Page 7 of 18)	
G3. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS¹						
Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)			
Receptacle	18.04	18.04	---			
Process	---	---	---			
OtherLtg	---	---	---			
Process Motors	---	---	---			
TOTAL TOTAL COMPLIANCE - NON-REGULATED COMPONENTS	79.04	52.14	26.9 (34%)			
¹ Note: This table is not used for Energy Code Compliance.						
G4. 'MOVE CODE' QUALIFICATIONS						
<input type="checkbox"/> This project is pursuing CalGreen Tier 1 <input type="checkbox"/> This project is pursuing CalGreen Tier 2						
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance					Report Version: 2022.0.000	Report Generated: 2024-12-17 08:15:46
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CERTIFICATE OF COMPLIANCE - NON-RESIDENTIAL PERFORMANCE COMPLIANCE METHOD											NRCC-PRF-E	
Nonresidential Performance Compliance Method											(Page 12 of 18)	
G7A. PENETRATION ASSEMBLY SUMMARY (NON-RESIDENTIAL)												
01	02	03	04	05	06	07	08	09				
Penetration Assembly Name	Construction Type / Product Type / Frame Type	Certification Method ¹	Assembly Method	Area (ft ²)	Overall U-factor	Overall SHGC	Overall VT	Status ²				
New Window	Vertical fenestration Fixed window	NFRC	Manufactured	33	0.34	4.22	0.5	N				
Glass Door	Vertical fenestration Sliding door	NFRC	Manufactured	10	0.45	4.23	0.5	N				
¹ Note: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass only, determined by the manufacturer, and are shown for ease of verification. Site-built penetration values are calculated per Nonresidential Appendix F. Status: N - New, A - Altered, E - Existing.												
H1. DRIP SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VAV, ECONOMIZERS ETC.)												
01	02	03	04	05	06	07	08	09	10	11	12	
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency (EER)	Efficiency (SEER)	Total Cooling Output (kBtu/h)	Cooling (EER)	Efficiency (SEER)	Economizer Type (if present)	Status ¹	
Undefined System	Variable Refrigerant Flow	1	25	N/A	COP HSFP	8.8	24	EER 11.7	SEER 11.5	N/A	N	
¹ Status: N - New, A - Altered, E - Existing												
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance											Report Version: 2022.0.000	Report Generated: 2024-12-17 08:15:46
											Compliance ID: EnergyPro-1282-1224-0302	

CERTIFICATE OF COMPLIANCE - NON-RESIDENTIAL PERFORMANCE COMPLIANCE METHOD						NRCC-PRF-E	
Nonresidential Performance Compliance Method						(Page 10 of 18)	
G4. ENVELOPE GENERAL INFORMATION (conditioned spaces only)							
01		02	03	04			
Opaque Surfaces & Orientation		Total Gross Surface Area (ft ²)	Total Fenestration Area (ft ²)	Window to Wall Ratio (%)			
West-Facing ¹		56	0	0			
Total		663.3	73	11.01			
Roof		266	0	0			
Notes: ¹ North-facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW). ² East-facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE). ³ South-facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE). ⁴ West-facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW).							
G4A. ROOFING PRODUCT SUMMARY (NON-RESIDENTIAL)							
01	02	03	04	05	06		
Manufacturer Name	Roof Pitch	Roof Area (in ft ²)	Aged Solar Reflectance	Thermal Emittance	SR		
Metal Framed Roof14	LowSlope	N/A	0.63	0.75	N/A		
G4. NON-RESIDENTIAL AIR BARRIER							
01		02		03			
Building Story Name				Air Barrier			
Com-Floor-1				No air barrier			
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance						Report Version: 2022.0.000	Report Generated: 2024-12-17 08:15:46
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CERTIFICATE OF COMPLIANCE - NON-RESIDENTIAL PERFORMANCE COMPLIANCE METHOD								NRCC-PRF-E	
Nonresidential Performance Compliance Method								(Page 8 of 18)	
G7. ENERGY USE SUMMARY									
Energy Component	Standard Design Site (MWt)	Proposed Design Site (MWt)	Margin (MWt)	Standard Design Site (MWt)	Proposed Design Site (MWt)	Margin (MWt)			
Space Heating	---	0.9	---	7.2	---	---			
Space Cooling	0.7	0.6	0.1	---	---	---			
Innodb Fans	2	1.1	0.9	---	---	---			
Heat Rejection	---	---	---	---	---	---			
Pumps & Misc.	---	---	---	---	---	---			
Domestic Hot Water	0.3	0.3	0	---	---	---			
Indoor Lighting	0.9	0.4	0.5	---	---	---			
Flexibility	---	---	---	---	---	---			
EFFICIENCY TOTAL	3.9	3.3	0.6	7.2	0	7.2			
Photovoltaics	---	---	---	---	---	---			
Batteries	---	---	---	---	---	---			
ENERGY USE SUBTOTAL	3.9	3.3	0.6	7.2	0	7.2			
Receptacle	1.2	1.2	0	2.6	2.6	0			
Process	---	---	---	---	---	---			
OtherLtg	---	---	---	---	---	---			
Process Motors	---	---	---	---	---	---			
ENERGY USE TOTAL	5.1	4.5	0.6	9.8	2.6	7.2			
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance								Report Version: 2022.0.000	Report Generated: 2024-12-17 08:15:46
								Compliance ID: EnergyPro-1282-1224-0302	



YOLO COUNTY VETERINARY CLINIC
 2640 EAST GIBSON ROAD

BB24-08-9
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CERTIFICATE OF COMPLIANCE - NON-RESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E (Page 17 of 18)

Nonresidential Performance Compliance Method

X2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (Includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

01	02	03	04	05	06
Name or Item Tag	Complete Luminaire Description (i.e. 3-Bag Fluorescent ballast, PFC, one dimmable electronic ballast)	Watts per luminaire	Installed Watts (Conditioned)	Total Number of Luminaires	Installed Watts
0	0	0	0	0	0

If lighting power densities were used in the compliance model, building documents will need to check prescriptive items for Luminaire Schedule details.

X3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space for compliance credits per 140.0(a)(2) and Table 140.0-A-4)

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.0-A-4 and 170.3-1)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credits (Watts)
S-1 Vet Clinic	Hospital - Exam/Treatment	N/A	N/A	6	40	1	40	0
S-1 Vet Clinic	Hospital - Exam/Treatment	N/A	N/A	6	40	2	80	0
S-1 Vet Clinic	Hospital - Exam/Treatment	N/A	N/A	6	40	1	40	0
Lighting Control Credits (Conditioned): Total (Watts)								0

X4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

Building Level Controls

01	02
Mandatory Demand Response 110.2(c)	Shut-Off Controls 130.1(i) & 140.0(a)(4)
N/A	N/A

Area Level Controls (Includes all lighting controls installed in conditioned space to meet mandatory requirements per 130.1)

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CERTIFICATE OF COMPLIANCE - NON-RESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E (Page 18 of 18)

Nonresidential Performance Compliance Method

L. DELEGATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted by the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online.

Building Component	Form/Title
Envelope	NRCC-ENV-01-E: Must be submitted for all buildings
Mechanical	NRCC-MECH-01-E: Must be submitted for all buildings
Plumbing	NRCC-PLB-01-E: Must be submitted for all buildings
Indoor Lighting	NRCC-LTH-01-E: Must be submitted for all buildings
Indoor Lighting	NRCC-LTH-E: Indoor Lighting (for all buildings)

M. DELEGATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted by the features to be recognized for compliance. These documents must be provided by the building inspector during construction and must be completed through an Acceptance Test Technician Certificate Provider (ATTCP).

Building Component	Form/Title
Envelope	NRCC-ENV-02-F: NRCC Label verification for fenestration
Indoor Lighting	NRCC-LTH-02-A: Occupancy Sensors and Automatic Time Switch Controls.

N. DELEGATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted by the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online.

There are no Certificates of Verification applicable to this project.

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CERTIFICATE OF COMPLIANCE - NON-RESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E (Page 15 of 18)

Nonresidential Performance Compliance Method

X1. INDOOR CONDITIONED LIGHTING GENERAL INFO

01	02	03	04	05	06
Occupancy Type ¹	Conditioned Floor Area ² (ft ²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	Area Category Footcandle (Watts)
Hospital - Exam/Treatment	266	160	0	0	0
Building Tests	266	160	0	0	0

¹ See Table 140.0-B-6
² Per NRCC-ENV-E for unconditioned spaces
 Lighting fixtures for existing spaces installed is not included in this table.

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CERTIFICATE OF COMPLIANCE - NON-RESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E (Page 16 of 18)

Nonresidential Performance Compliance Method

I. DELEGATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted by the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online.

Area Description	Area Category Primary Function Area	Vac Controls 130.1(i) & 140.0(a)(4)	Multi-Level Controls 130.1(i) & 140.0(a)(4)	Shut-Off Controls 130.1(i) & 140.0(a)(4)	Primary Daylighting 130.1(i)(E) & 140.0(a)(4)	Secondary Daylighting 140.1(i) & 140.0(a)(4)
Vet Clinic	All Other Space Types	Required	Required	Required	N/A	N/A

L. DELEGATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted by the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online.

Building Component	Form/Title
Envelope	NRCC-ENV-01-E: Must be submitted for all buildings
Mechanical	NRCC-MECH-01-E: Must be submitted for all buildings
Plumbing	NRCC-PLB-01-E: Must be submitted for all buildings
Indoor Lighting	NRCC-LTH-01-E: Must be submitted for all buildings
Indoor Lighting	NRCC-LTH-E: Indoor Lighting (for all buildings)

M. DELEGATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted by the features to be recognized for compliance. These documents must be provided by the building inspector during construction and must be completed through an Acceptance Test Technician Certificate Provider (ATTCP).

Building Component	Form/Title
Envelope	NRCC-ENV-02-F: NRCC Label verification for fenestration
Indoor Lighting	NRCC-LTH-02-A: Occupancy Sensors and Automatic Time Switch Controls.

N. DELEGATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted by the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online.

There are no Certificates of Verification applicable to this project.

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CERTIFICATE OF COMPLIANCE - NON-RESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E (Page 13 of 18)

Nonresidential Performance Compliance Method

X3. GENERAL KITCHEN/FINISH SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
Name or Item Tag	Design DA CM	CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	Status ¹	
2-Vet Clinic-VRF	3	0	42 ¹	0.1	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N

¹ Status: N - New, A - Altered, E - Existing

X4. GENERAL KITCHEN/FINISH SUMMARY

01	02	03	04	05	06	07	08
System ID	Zone Name	Qty	CFM	Power	Power Units	Continuous Operation ²	Status ³
Vet Clinic3	3-Vet Clinic	3	100	0.05	BHP	No	N

¹ Status: N - New, A - Altered, E - Existing

X5. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.0(a) ¹	Other Special Features and Controls
Undefined Plant-1 - SHW	Service Hot Water	N/A	Fixed Temperature Control

Notes: No table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-GEN-E.

¹ Yes = interlocks are provided, No = interlocks are not provided, N/A means no applicable openings.

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CERTIFICATE OF COMPLIANCE - NON-RESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E (Page 14 of 18)

Nonresidential Performance Compliance Method

X2. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
System ID	System Type	City	Rated Capacity (Btu/h)	Flow (gpm)	Flow (gpm)	Flow (gpm)	Flow (gpm)	Flow (gpm)	Flow (gpm)	Flow (gpm)	Flow (gpm)	Flow (gpm)
2-Vet Clinic-VRF	Variable Refrigerant Flow	3	11	9	427	250	0.55	0.1	BHP	Cycling	05	

X1. WATER HEATER EQUIPMENT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Heater Element Type	Tank Type	Qty	Tank Vol (gpi)	Rated Input	Efficiency	Efficiency Unit	Standby Loss (Btu/hr)	Standby Loss (Btu/hr)	Standby Loss (Btu/hr)	Standby Loss (Btu/hr)	Standby Loss (Btu/hr)	Standby Loss (Btu/hr)
Instantaneous Electric	Electricity	Instantaneous	2	1	3.5	0.98	UEF	N/A	N/A	1	N/A	N/A	

X1. INDOOR CONDITIONED LIGHTING GENERAL INFO

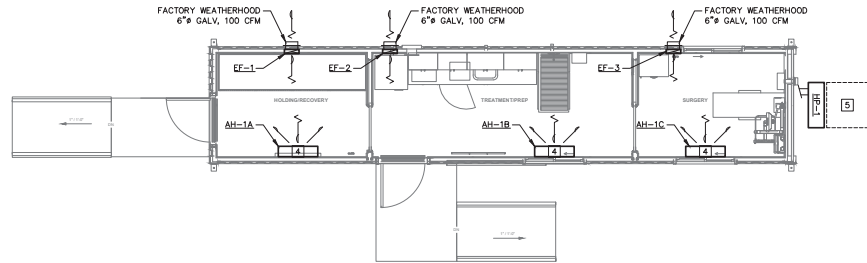
01	02	03	04	05	06
Occupancy Type ¹	Conditioned Floor Area ² (ft ²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	Area Category Footcandle (Watts)
Hospital - Exam/Treatment	266	160	0	0	0
Building Tests	266	160	0	0	0

¹ See Table 140.0-B-6
² Per NRCC-ENV-E for unconditioned spaces
 Lighting fixtures for existing spaces installed is not included in this table.

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SHEET NOTES

- 1 ALL WORK SHALL COMPLY WITH 2022 CBC, CMC, CEC & CPC.
- 2 ALL EXHAUST OUTLETS SHALL MAINTAIN A MIN. 3' CLEARANCE FROM ANY OPERABLE OPENING AND PROPERTY LINES. EXHAUST DUCTS SHALL BE EQUIPPED WITH BACK-DRAFT DAMPER PER SEC. 504.11 CMC.
- 3 ALL EXHAUST FANS SHALL BE EQUIPPED WITH FACTORY OR FIELD INSTALLED BACKDRAFT DAMPERS PER CMC 504.1. WHERE EXHAUST FAN DUCTS ARE COMBINED TO SERVE A SINGLE OUTLET, AN ADDITIONAL FIELD INSTALLED BACKDRAFT DAMPER SHALL BE USED TO PROVIDE GREATER PROTECTION.
- 4 A. PROVIDE CONDENSATE DRAIN LINE IN ACCORDANCE WITH CMC 802.9
 B. PROVIDE ACCESS PANEL AND CLEARANCE REQUIREMENTS PER MANUFACTURERS INSTALLATION REQUIREMENTS
 C. CONNECT REFRIGERANT LINES TO OUTDOOR COMPRESSOR UNITS
 D. PROVIDE FILTER RACK AND FILTER FOR ALL UNITS
- 5 WALL MOUNT CONDENSER COORD EXACT LOCATION W/ ARCH. PROVIDE 1 FT CLEARANCE OFF STRUCTURE.



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

REVISIONS:	BY:

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-123126 INC.
 REVIEWED FOR:
 FLS ACS
 DATE: 4/9/2025

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**YOLO COUNTY
 VETERINARY CLINIC**
 26410 EAST GIBSON ROAD

BB24-089
 Reviewed for
 Code Compliance
 Approved: CR

DATE:	01/21/25
SCALE:	AS NOTED
DRAWN:	MEG
CHECKED:	
FILE NAME:	
SHEET:	

M2.1
SHEET OF SHEETS

PIPE INSULATION THICKNESS TABLE						
FLUID TEMPERATURE RANGE (°F)	CONDUCTIVITY RANGE (IN BTU-INCH PER HOUR SQUARE FOOT PER °F)	INSULATION MEAN RATING TEMPERATURE (°F)	NOMINAL PIPE DIAMETER (IN INCHES)			
			< 1	1 TO < 1.5	1.5 TO < 4.5	4 TO < 8
INSULATION THICKNESS REQUIRED (IN INCHES)						
SPACE HEATING, HOT WATER SYSTEMS (STEAM, STEAM CONDENSATE AND HOT WATER) AND SERVICE WATER HEATING SYSTEMS						
ABOVE 350	0.32-0.34	250	4.5	5.0	5.0	5.0
251-350	0.29-0.32	300	3.0	4.0	4.5	4.5
201-250	0.27-0.30	150	2.5	2.5	2.5	3.0
141-200	0.25-0.29	125	1.5	1.5	2.0	2.0
105-140	0.22-0.28	100	1.0	1.5	1.5	1.5
SPACE COOLING SYSTEMS (CHILLED WATER, REFRIGERANT AND BRINE)						
40-60	0.21-0.27	75	0.75	0.75	1.0	1.0
BELOW 40	0.20-0.26	50	1.0	1.5	1.5	1.5

GAL GREEN FIXTURE CONNECTION TABLE							
DESCRIPTION	MIN BRANCH SIZE				TRAP	MAX GPM	COMMENTS
	W	V	CW	HW			
WATER CLOSET	3"	2"	1/2"	NA	3"		1
KITCHEN/LAUNDRY SINK	2"	1-1/2"	1/2"	1/2"	1-1/2"	1.8 @ 60 PSI	
TUB/SHOWER COMBO	2"	1-1/2"	3/4"	3/4"	1-1/2"	1.8 @ 80 PSI	2, 4
BATH TUB ONLY	2"	1-1/2"	3/4"	3/4"	1-1/2"		
LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	1-1/2"	1.2 @ 60 PSI	
CLOTHES WASHER	2"	1-1/2"	3/4"	3/4"	2"		
SHOWER	2"	1-1/2"	3/4"	3/4"	2"	1.8 @ 80 PSI	2, 4

NOTES:

- Dual-Flush or equal to or less than 1.28 gallon per flush
- Individual control valves of the pressure balance or thermostatic mixing valve type shall be provided.
- Plumbing fixtures shall meet the standard referenced in CGBSC Table 4.303.3
- When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower to be in operation at a time. (Note: hand-held shower is to be considered a showerhead)

ELECTRIC WATER HEATERS								
MARK	LOCATION	GAL CAP	KWH IN	ELECT KW	RECOVERY AT 60 PSI	LBS FULL	MANUFACTURER AND MODEL	COMMENTS
EMT-1	SINK CABINET	1.5	N/A	8	240/1	6.8 GPM	12.5 RHEM RETEX-08	

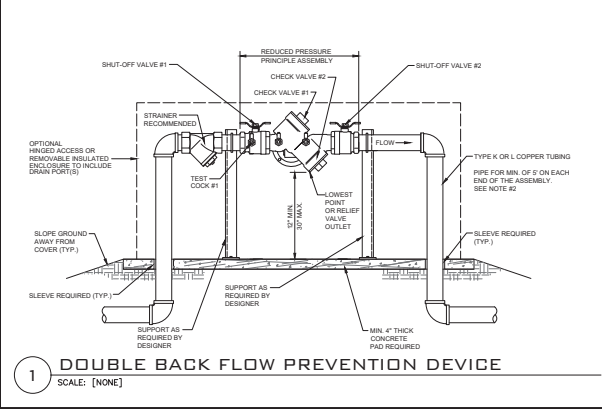
SYMBOL			ABBREVIATION			IDENTIFICATION		
⊖	WCD	WALL C.O.	⊖	WHA	WATER HAMMER ARRESTOR	⊖	WCD	WALL C.O.
⊖	COTG/FCO	C.O. TO GRADE/FLOOR C.O.	⊖	WHA	WATER HAMMER ARRESTOR	⊖	COTG/FCO	C.O. TO GRADE/FLOOR C.O.
⊖	GC	GAS COCK	⊖	WHA	WATER HAMMER ARRESTOR	⊖	GC	GAS COCK
⊖	PP	PRESSURE/TEMPERATURE PLUG	⊖	WHA	WATER HAMMER ARRESTOR	⊖	PP	PRESSURE/TEMPERATURE PLUG
⊖	BV	BALL VALVE	⊖	WHA	WATER HAMMER ARRESTOR	⊖	BV	BALL VALVE
⊖	CHVA	CHECK VALVE	⊖	WHA	WATER HAMMER ARRESTOR	⊖	CHVA	CHECK VALVE
⊖	OSAY	OUTSIDE SOREY & YOKE GATE VALVE	⊖	WHA	WATER HAMMER ARRESTOR	⊖	OSAY	OUTSIDE SOREY & YOKE GATE VALVE
⊖	BV/SOV	BALANCING/SHUT-OFF VALVE	⊖	WHA	WATER HAMMER ARRESTOR	⊖	BV/SOV	BALANCING/SHUT-OFF VALVE
⊖	GV	GATE VALVE	⊖	WHA	WATER HAMMER ARRESTOR	⊖	GV	GATE VALVE
⊖	T&PRV	TEMP & PRESS RELIEF VALVE	⊖	WHA	WATER HAMMER ARRESTOR	⊖	T&PRV	TEMP & PRESS RELIEF VALVE
⊖	WHA	WATER HAMMER ARRESTOR	⊖	WHA	WATER HAMMER ARRESTOR	⊖	WHA	WATER HAMMER ARRESTOR
⊖	SV	SOLVED VALVE	⊖	WHA	WATER HAMMER ARRESTOR	⊖	SV	SOLVED VALVE
⊖	DCBP	DOUBLE CHECK BACKFLOW PREVENTER	⊖	WHA	WATER HAMMER ARRESTOR	⊖	DCBP	DOUBLE CHECK BACKFLOW PREVENTER
⊖	UNION	UNION	⊖	WHA	WATER HAMMER ARRESTOR	⊖	UNION	UNION
⊖	PC	PRESSURE GAUGE	⊖	WHA	WATER HAMMER ARRESTOR	⊖	PC	PRESSURE GAUGE
⊖	FC	CENTRIFUGAL WATER PUMP	⊖	WHA	WATER HAMMER ARRESTOR	⊖	FC	CENTRIFUGAL WATER PUMP
⊖	FC	FLEXIBLE CONNECTION	⊖	WHA	WATER HAMMER ARRESTOR	⊖	FC	FLEXIBLE CONNECTION
⊖	RRBP	HYDROSTATIC RELIEF VALVE	⊖	WHA	WATER HAMMER ARRESTOR	⊖	RRBP	HYDROSTATIC RELIEF VALVE
⊖	HB	REDUCE PRESS BACKFLOW PREVENTER	⊖	WHA	WATER HAMMER ARRESTOR	⊖	HB	REDUCE PRESS BACKFLOW PREVENTER
⊖	MH	HOSE BIB	⊖	WHA	WATER HAMMER ARRESTOR	⊖	MH	HOSE BIB
⊖		MANHOLE	⊖	WHA	WATER HAMMER ARRESTOR	⊖		MANHOLE
⊖		THERMOMETER	⊖	WHA	WATER HAMMER ARRESTOR	⊖		THERMOMETER
⊖	P.O.C.	POINT OF CONNECTION	⊖	WHA	WATER HAMMER ARRESTOR	⊖	P.O.C.	POINT OF CONNECTION
⊖		CENTERLINE	⊖	WHA	WATER HAMMER ARRESTOR	⊖		CENTERLINE
⊖	GFR	GAS REDUCING VALVE	⊖	WHA	WATER HAMMER ARRESTOR	⊖	GFR	GAS REDUCING VALVE

PLUMBING ABBREVIATIONS	
ARCH — ARCHITECT	LAV — LAVATORY
AFS — AUTOMATIC FIRE SPRINKLERS	LBS — POUNDS
BTU/H — BRITISH THERMAL UNITS PER HOUR	LRA — LOCKED ROTOR AMPS
CD — CONDENSATE DRAIN	MAX — MAXIMUM
CIRC — CIRCULATION	MPG — MEDIUM PRESSURE GAS
CLO — CEILING	MFR — MANUFACTURER
CONC — CONCRETE	MIN — MINIMUM
CONT — CONTINUATION	(N) — NEW
COORD — COORDINATION	NC — NORMALLY CLOSED
COTG — CLEAN-OUT TO GRADE	NIC — NOT IN CONTRACT
CW — COLD WATER	NO — NORMALLY OPEN
∅ — DIAMETER	POC — POINT OF CONNECTION
DF — DRINKING FOUNTAIN	PSI — POUNDS PER SQUARE INCH
DN — DOWN	RECS — REQUIREMENTS
DWS — DRAININGS	(E) — EXISTING
DRS — REQUIREMENTS	RPM — REVOLUTIONS PER MINUTE
ELECT — ELECTRICAL	SH — SHOWER
° — DEGREES FAHRENHEIT	STM — STEAM
FCW — FILTERED COLD WATER	STRUCT — STRUCTURAL
FLA — FULL LOAD AMPS	SW — SWITCH
FLEX — FLEXIBLE	SS — SANITARY SEWER
FM — FEET PER MINUTE	TYP — TYPICAL
FS — FLOOR SINK	UL — UNDERWRITERS LABORATORY
FR — FLUE THRU ROOF	UN — UNLESS OTHERWISE NOTED
∅ — GAS	V — VENT
GALV — GALVANIZED	YTR — VENT THRU ROOF
GPM — GALLONS PER MINUTE	W — WASTE
HB — HOSE BIBB	W/ — WITH
HP — HORSE POWER	WC — WATER CLOSET
HPC — HIGH PRESSURE GAS	WT — WEIGHT
HW — HOT WATER	
HWR — HOT WATER RETURN	
KBTU/H — 1000 BTU/H	

SYMBOLS		
⊖	WCD	WALL C.O.
⊖	COTG/FCO	C.O. TO GRADE/FLOOR C.O.
⊖	GC	GAS COCK
⊖	PP	PRESSURE/TEMPERATURE PLUG
⊖	BV	BALL VALVE
⊖	CHVA	CHECK VALVE
⊖	OSAY	OUTSIDE SOREY & YOKE GATE VALVE
⊖	BV/SOV	BALANCING/SHUT-OFF VALVE
⊖	GV	GATE VALVE
⊖	T&PRV	TEMP & PRESS RELIEF VALVE
⊖	WHA	WATER HAMMER ARRESTOR
⊖	SV	SOLVED VALVE
⊖	DCBP	DOUBLE CHECK BACKFLOW PREVENTER
⊖	UNION	UNION
⊖	PC	PRESSURE GAUGE
⊖	FC	CENTRIFUGAL WATER PUMP
⊖	FC	FLEXIBLE CONNECTION
⊖	RRBP	HYDROSTATIC RELIEF VALVE
⊖	HB	REDUCE PRESS BACKFLOW PREVENTER
⊖	MH	HOSE BIB
⊖		MANHOLE
⊖		THERMOMETER
⊖	P.O.C.	POINT OF CONNECTION
⊖		CENTERLINE
⊖	GFR	GAS REDUCING VALVE

PLUMBING SPECIFICATIONS	
A. General Conditions	1. All work shall be in conformance with the 2022 CPC, NFPA and all applicable codes, local jurisdictional amendments and agencies.
	2. Work Included: A. Domestic hot and cold water systems. B. Fuel gas piping. C. Installation of all new plumbing fixtures. D. Complete waste and vent piping system.
	3. It shall be the contractor's responsibility to visit the project site and acquaint himself with all existing conditions, as well as ascertain the extent of the work involved. By submitting a bid, the contractor shall be deemed to have made such an examination, to have accepted such conditions and to have made all necessary allowances in preparing his proposal.
	4. A structural member weakened or impaired by cutting, notching, or otherwise shall be reinforced, repaired, or replaced so as to be left in a safe structural condition in accordance with the requirements of the building code.
	5. All work and materials shall comply with governing codes, safety orders and regulations.
	6. Plumbing contractor shall deliver to the architect a written one year guarantee on all workmanship, equipment and materials; repair or replace any such defective items during this period.
	7. Provide Hanger and supports per table 313.3 2022 CPC Horizontal Vertical Cast Iron 18" of joint Each Floor max 15' Copper Pipe < 1.1/2" > 10" Each Floor max 10' PVC and ABS all max 4' Base, each floor, mid story guideline Pex < 1" at 32' > 4' Base, each floor, mid story guideline Steel for gas 1/2" - 3/4" 1-8' > 10' Same
B. Utilities and Site Work:	1. Prior to commencing work, plumbing contractor shall consult representatives of local utilities concerning locations and availability of utilities. Plumbing contractor shall be responsible for any damage to existing utility lines. 2. Plumbing contractor shall reroute any existing utility lines in conflict with new construction. 3. Plumbing contractor shall confirm locations and elevations of all existing new and rerouted mains and meters on job record drawings. 4. Piping in the ground shall be laid on a firm bed for its entire length. 5. Backfilling trenches with piping shall be with clean earth, no stones, boulders, cinder fill, frozen earth, construction debris, or other materials that will damage or cause corrosion.
C. Drain, Waste and Vent:	1. All waste piping below 1st floor shall be schedule 40 ABS or schedule 40 PVC DWV. 2. All waste piping serving 2nd floor fixtures shall be no-hub cast-iron. (Note: p-trap and trap-arm shall be cast iron. Note: transitions from ABS to no-hub piping for upstairs baths shall be beneath floor at 1st floor and transitions back to ABS shall be above 2nd floor plate line.) 3. All vent piping shall be schedule 40 ABS or schedule 40 PVC DWV. 4. Vents shall be combined to minimize roof penetration where possible. Confirm roof penetration locations with architect prior to installing. 5. Cleanouts shall be installed at upper terminals of all horizontal waste runs as per CPC. 6. Plumber shall provide waste for softener location. 7. Domestic dishwashing machines shall discharge indirectly through an air gap fitting in accordance with section 807.3 into a waste receptor, a wye branch fitting on the tailpiece of a kitchen sink, or dishwashing food waste grinder. 8. Cleanouts are required at drainage piping upper terminal; each branch line over 5 feet from main, no greater than 100 feet in developed length from each cleanout. Over 135 degrees in horizontal change of direction. 9. Sinks and urinals shall require cleanouts. 10. Cleanout clearances in front shall be $2'' - 12\text{ inches}$ $2'' - 18\text{ inches}$. Cleanouts shall extend to finished floor or outside the building. 11. No clothes washer standpipe shall extend more than 30 inches or not less than 18 inches above its trap. The trap shall be roughed in not less than 6 inches nor greater than 18 inches above the floor. 12. Condensate waste from air conditioning coils discharges by direct connection to a lav or approved bathtub overflow; the connection shall be located in the area controlled by the same person controlling the air conditioning space. 13. No domestic dishwashing machine shall be direct connected to the drainage system or a food waste disposer without the use of an approved dishwasher air gap fitting on the discharge side of the dishwashing machine. Listed air gaps shall be installed with the flood level marking at or above the flood level of the sink or drain board whichever is higher.

PLUMBING SPECIFICATIONS	
D. Water Supply Piping:	1. All underground water supply piping shall be schedule 40 PVC. Provide tracer wire at all underground utilities. 2. Water service line to dwelling shall be buried at a minimum depth of 18 inches. Where service enters building, service shall have a stop (ball valve), waste (drain cock), and pressure regulating valve if necessary. 3. Plastic and copper piping penetrating framing members within 1 inch of the exposed framing shall be protected by a steel nail plated not less than 16 gauge in thickness. Extend nail plate 1 1/2 inch beyond the outside diameter of the pipe. 4. Plumber shall provide water treatment loop. 5. All water supply piping within building shall be approved PEX. 6. Hot and cold supplies to all tubs shall be 3/4" minimum. 7. The maximum hot water temperature of discharging from the bathtub and whirlpool bathtub filler shall be limited to 120 degrees F by a device that is in accordance with ASSE 1070 or CSA B 125.3. Water heater thermostats do not comply. 8. Discharge from a relief valve into a water heater pan shall be prohibited. 9. Plastic water supply piping, underground outside a building, shall have a blue insulated copper tracer wire installed adjacent to the piping. The tracer wire shall terminate above grade and be not less than 18 awg. 10. Pex piping shall not be installed within the first 18 inches of piping connected to a water heater. Water heater flexes shall not be greater than 24 inches. 11. Where water pressure exceeds 80 Psi an approved type pressure regulator shall be installed. An approved expansion shall be installed in the cold water distribution piping downstream of each regulator. 12. All piping in hot water system shall be insulated per CPC insulation schedule. 13. All copper tubing shall be isolated from framing members with polyethylene isolators or 1/4" felt. 14. Water supply to refrigerators shall be 1/2" PEX. 15. Stub out height for water closet supplies to be coordinated with baseboard detail; conform with architect before installation. 16. No (2) fixtures shall be served with 1/2" supply piping. 17. Water supply system mains and branches shall be properly sized to deliver adequate water pressure and volume as per the CPC, and to minimize friction generated noise; no 1/2" ID piping shall be installed in walls or ceilings adjacent to living or sleeping areas; piping shall be sized so that flow velocities do not exceed 6' per second. 18. All building water systems in which quick acting valves are installed shall be provided with water hammer arrestors per 609.11. Arrestors shall be installed as close as possible to these valve types. 19. Automatic fire sprinkler demand has not been included in sizing of the site main domestic water supply. Coord WFS contractor for upsizing requirements for combination feed from single meter.
F. Tub, Shower and Pan Installation:	1. Plumbing contractor shall receive written specification for tile & float thickness for tubs and showers; rough in valves accordingly. 2. Shower drains shall be Frank Pattern #20SD. 3. Roman tub shall be set in mortarbase with 15# paper beneath mortar with 6 mil visqueen between mortar and tub.
G. Trim:	1. Plumbing contractor shall be responsible for protection of all finished work by other trades; plumbers working on finished floors shall use clean quilted drops. 2. Hot and cold water stubouts beneath sinks shall have brass T's and separate stops when supplies are to be run to dishwasher, refrigerator or other accessory. 3. Recirc system shall be properly balanced with Nibco globe valves; circulation return shall have a check valve installed in the line, before its connection back to the hot water source. 4. Water heaters: indirect or radiant heating controls. 5. Plumbing contractor shall thoroughly flush all water supply lines.



1 DOUBLE BACK FLOW PREVENTION DEVICE
SCALE: [NONE]

REVISIONS: BY:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123126 INC.
REVIEWED FOR:
DATE: 4/9/2025

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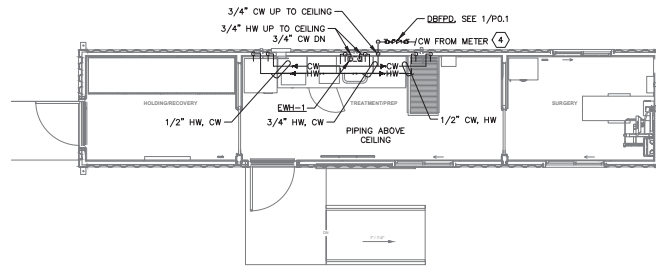
YOLO COUNTY
VETERINARY CLINIC
2640 EAST GIBSON ROAD

BB24-009
Review for
Code Compliance
Approval CR

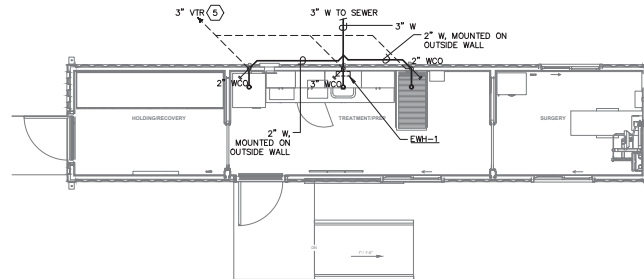
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SHEET NOTES

1. PROVIDE TRAP PRIMERS AT ALL FLOOR DRAINS & FLOOR SINKS.
2. COORD ALL PIPING LAYOUTS W/DUCT SYSTEM AND ALL TRADES.
3. NOTE ALL HOT AND COLD WATER PIPING BELOW SLAB SHALL BE TYPE K SOFT COPPER OR APPROVED PEK. NO JOINTS SHALL BE PERMITTED BELOW SLAB. INSULATE WITH APPROVED BELOW SLAB INSULATION.
4. DOMESTIC DEMAND = 7 GPM @ 45 TO 60 PSI. SIZING IS BELOW 200FT THEREFORE SIZING IS BASED ON VELOCITY LIMITS FOR COPPER PIPING. 8 FT/SEC FOR C.W AND 5 FT/SEC FOR H.W. SYSTEM ASSUMES SEPARATE FIRE SPRINKLER SYSTEM. COORDINATE WITH ALL TRADES.
5. NOTE: GROUP ALL VENTS WHERE PRACTICAL TO MINIMIZE PENETRATIONS THROUGH ROOF. PLUMBING CONTRACTOR SHALL OBTAIN APPROVAL FROM ARCHITECT FOR ALL VENT TERMINATION.
6. PROVIDE TRAP PRIMERS AT ALL FLOOR DRAINS & FLOOR SINKS.
7. COORD FOUNDATION PENETRATIONS.




2 DOMESTIC WATER PLAN
SCALE: 1/4" = 1'-0"



1 WASTE & VENT PLAN
SCALE: 1/4" = 1'-0"

REVISIONS:	BY:
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT	
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BB24-089
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 Code Compliance
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PLUMBING

DATE:	01/21/25
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LIGHTING NOTES

- REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION, QUANTITIES, TYPES, AND MOUNTING HEIGHTS OF LIGHT FIXTURES, EXIT SIGNS, SWITCHES, DIMMERS, ETC.
- PRIOR TO ORDERING LIGHTING FIXTURES, COORDINATE WITH ARCHITECTURAL AND ENGINEERING INFORMATION, OBTAIN CLARIFICATION OF ANY QUESTIONS PRIOR TO PROCEEDING.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW LIGHT FIXTURES AS INDICATED AND INSTALL NEW SWITCHES, DIMMERS, ETC. FOR CONTROL OF LIGHT FIXTURES AS SHOWN ON ARCHITECTURAL DRAWINGS. VERIFY AND COORDINATE SWITCHING CONTROL WITH ARCHITECT/CLIENT REPRESENTATIVES.
- LIGHTING FIXTURES SHALL BE CIRCUITED IN ACCORDANCE WITH CIRCUIT NUMBER INDICATED ADJACENT TO EACH LIGHTING FIXTURE. CIRCUITRY MAY BE SHOWN IN CERTAIN INSTANCES AND ONLY UNDER SPECIAL CIRCUMSTANCES. PROVIDE ALL CONDUITS, WIRING AND BOXES AS WELL AS CEILING OUTLETS AND FIXTURES WHIPS REQUIRED FOR CIRCUITRY INCLUDING WIRING FOR SWITCHING OF THE FIXTURES.
- ALL LIGHTING BRANCH CIRCUITS SERVING DIMMABLE FIXTURES SHALL HAVE SEPARATE NEUTRAL CONDUCTORS.
- CONTRACTOR TO MAINTAIN THE CONTINUITY OF EXISTING SERVICES AND SYSTEMS IN THE CORE AREAS OF THE FLOOR THAT ARE TO REMAIN. COORDINATE EXISTING WIRE AND CIRCUITING WITH NEW PANELS AND SCHEDULES.
- ALL JUNCTION OR OUTLET BOXES SHALL BE ACCESSIBLE. WHERE UNOBSTRUCTED ACCESS TO A BOX OR OUTLET IS NOT POSSIBLE, PROVIDE ACCESS PANEL. COORDINATE WITH THE ARCHITECT AND OBTAIN APPROVAL FROM ARCHITECT PRIOR TO INSTALLATION OF JUNCTION OR OUTLET BOXES.
- WHERE MULTIPLE SWITCHES ARE GROUPED TOGETHER AT ONE LOCATION, THEY SHALL BE MOUNTED IN A SINGLE OUTLET BOX WITH A COMMON FACEPLATE. BUTTED OUTLET BOXES AND SWITCH PLATES ARE NOT PERMITTED. PROVIDE DIVIDER FOR SEPARATION OF SERVICE.
- SUPPORT CEILING MOUNTED FIXTURES DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT FIXTURES FROM PIPING, EQUIPMENT, OR SQUELY FROM THE SUSPENDED CEILING.

POWER NOTES

- REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL DEVICES (i.e. RECEPTACLES, DATA/TELEPHONE OUTLETS, SECURITY DEVICES, PANELS, SPEAKER/STROBE, ETC).
- ELECTRICAL CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF CIRCUITING IN AREAS WHICH ARE CONNECTED TO EXISTING ELECTRICAL DEVICES AND ELECTRICAL SERVICES STILL IN USE.
- PROVIDE THE BARS ON ALL SINGLE POLE CIRCUIT BREAKERS SERVING MULTI-WIRE BRANCH CIRCUITS IN COMPLIANCE WITH CEC ARTICLE 210.4(B). EXISTING CIRCUIT BREAKERS REQUIRING THE HANDLES SHALL BE REPLACED WITH NEW TRIP FREE HANDLE BREAKERS. NEW BREAKERS SHALL MATCH BASE BUILDING STANDARDS. SHALL BE FROM SAME MANUFACTURER OF EXISTING BREAKERS THAT ARE TO REMAIN IN PANEL, AND SHALL BE COMPATIBLE WITH PANELBOARD. CONTRACTOR SHALL COORDINATE REQUIREMENTS IN FIELD WITH EXISTING EQUIPMENT.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXACT RATINGS AND NEMA CONFIGURATION OF ALL SPECIAL RECEPTACLES.
- REFER TO TELECOMMUNICATIONS AND AUDIO VISUAL DRAWINGS FOR ALL CONDUIT REQUIREMENTS.
- ALL TELEPHONE/DATA CONDUIT STUB-UPS, WHERE GYPBOARD CEILINGS OCCUR, SHALL RUN INTO ACCESSIBLE CEILING AREAS.
- CONTRACTOR SHALL PROVIDE AN EMPTY CONDUIT SYSTEM AND OUTLET BOXES FOR INSTALLATION OF SECURITY SYSTEM AS APPLICABLE AS SPECIAL DEVICES AND EQUIPMENT AND WIRING ARE BY OTHERS. PROVIDE JUNCTION BOX AND 1 EMPTY CONDUIT WITH DRAG WIRE STUB-UP TO ACCESSIBLE HUNG CEILING. COORDINATE WITH OWNERS VENDOR FOR WIRING REQUIREMENTS, UNLESS OTHERWISE NOTED ON RESPECTIVE DESIGN DRAWINGS.
- ANY RECEPTACLES, AS INDICATED, SHALL BE CONNECTED ON THE SAME PHASE. ALL RECEPTACLES SHALL BE IDENTIFIED ON AND COORDINATED WITH CONSULTANT'S DRAWINGS. COORDINATE QUANTITY AND LOCATIONS WITH AV CONSULTANT'S DRAWINGS.
- ANY DISCREPANCIES SHALL BE DIRECTED TO ARCHITECT PRIOR TO BIDDING. WHERE DISCREPANCIES CANNOT BE RESOLVED PRIOR TO SUBMITTING BIDS, CONTRACTOR SHALL PROCEED BASED ON MORE COSTLY OR RESTRICTIVE INTERPRETATIONS.
- MECHANICAL EQUIPMENT IS LOCATED ABOVE THE HUNG CEILING UNLESS OTHERWISE NOTED. EXACT LOCATION SHALL BE DETERMINED FROM MECHANICAL DRAWINGS.
- ALL MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR. WIRE BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE MECHANICAL EQUIPMENT AS PER AN APPROVED MANUFACTURER'S WIRING DIAGRAM. ALL CONTROL WIRING BY THE HVAC CONTRACTOR.
- CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT THAT IS NOT FACTORY SUPPLIED UNLESS OTHERWISE NOTED ON MECHANICAL DRAWINGS. CONTRACTOR SHALL COORDINATE SIZE WITH MECHANICAL EQUIPMENT SPECIFICATIONS AND MECHANICAL CONTRACTOR.

SCOPE OF WORK

NEW 200AMP 120/240V, 1PH ELECTRICAL PANEL FROM EXISTING MAINS FOR YOLO COUNTY VETERINARY CLINIC.

CODE DISCLAIMER

THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF BELOW CODES.

- 2022 BUILDING STANDARD ADMINISTRATIVE CODE
- 2022 CALIFORNIA BUILDING CODE (2021 IRC)
- 2022 CALIFORNIA ELECTRICAL CODE (2020 NEC)
- 2022 CALIFORNIA MECHANICAL CODE (2021 UMC)
- 2022 CALIFORNIA PLUMBING CODE (2021 LPC)
- 2022 CALIFORNIA FIRE CODE (2021 IFC)
- 2022 ENERGY EFFICIENCY STANDARD (TITLE 24)
- 2022 GREEN BUILDING CODE (TITLE 24)

VOLTAGE DROP

THIS PROJECT IS COMPLIANCE WITH CEC 210.19(A). FEEDER CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3 PERCENTAGE AT DESIGN LOAD. BRANCH CIRCUIT CONDUCTORS ARE SIZED FOR MAXIMUM VOLTAGE DROP OF 3 PERCENTAGE AT DESIGN LOAD. THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET SHALL NOT EXCEED 5 PERCENT.

SHEET INDEX

SHEET	DESCRIPTION
EO.1	GENERAL NOTES & LEGENDS
EO.2	ELECTRICAL SPECIFICATIONS & APPURTEANES
E1.1	ELECTRICAL FLOOR PLANS
E2.1	PHOTOMETRIC EGRESS PATH PLAN
E4.1	TITLE 24 REPORTS
E4.2	TITLE 24 REPORTS
E5.1	ELECTRICAL DETAILS
E6.1	ELECTRICAL SINGLE LINE DIAGRAM & PANEL SCHEDULE

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE 2022 CALIFORNIA ELECTRICAL CODE, 2022 CALIFORNIA ENERGY CODE AND ALL OTHER GOVERNING CODES AND ORDINANCES.
- ALL MATERIALS SHALL BE NEW AND BEAR THE UNDERWRITERS LABEL (OR EQUIVALENT TESTING AGENCY).
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. SIZES AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS. SHALL LOCATE ALL OUTLETS AND CONTROL DEVICES. LOCATION AS SHOWN ON THE ELECTRICAL PLANS ARE NOT WITHIN THE SCOPE OF THE DRAWINGS TO SHOW ALL NECESSARY BENDS, OFFSET, PULL BOXES AND OBSTRUCTIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGeways CLEAR.
- REFER TO SPECIFICATIONS COVERING HVAC, PLUMBING AND FIRE PROTECTION WORK FOR POSSIBLE ADDITIONAL WORK TO BE PERFORMED UNDER THE ELECTRICAL CONTRACT.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE FULL SET OF BID DOCUMENTS TO BE AWARE OF THE TOTAL SCOPE PRIOR TO SUBMITTING BID.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH HVAC, PLUMBING AND OTHER TRADES FOR EXACT LOCATION OF ALL CONTROL DEVICES. LOCATION AS SHOWN ON THE ELECTRICAL PLANS ARE APPROXIMATE. ALL FINAL CONNECTIONS TO MOTOR TERMINALS SHALL BE DONE WITH A MINIMUM 18" OF LIQUID TIGHT FLEXIBLE CONDUIT USING THE APPROPRIATE FITTINGS.
- ALL NOTATIONS OF "SCALE" ARE INTENDED AS APPROXIMATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ASCERTAIN THE EXACT LOCATIONS OF ALL EQUIPMENT AND VERIFYING REQUIRED CLEARANCES.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR AND MATERIALS REQUIRED TO PRODUCE COMPLETE AND WORKING SYSTEMS. EC SHALL FURNISH AND INSTALL COMPLETE WIRING FOR LIGHTING, POWER, HVAC EQUIPMENT, ETC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD MEASUREMENTS AND VERIFICATION OF FIELD CONDITIONS PRIOR TO PERFORMING HIS WORK. ANY CHANGES IN WORK NECESSITATED BY FAILURE OF THIS CONTRACTOR TO COMPLY WITH THIS CONDITION SHALL BE UNDERTAKEN BY THIS CONTRACTOR AT HIS OWN EXPENSE.
- ALL AREAS ABOVE PANELBOARDS SHALL BE FREE FROM WORK OF OTHER TRADES.
- NUMERALS INDICATED ADJACENT TO LIGHT FIXTURES, RECEPTACLES, DEVICES AND EQUIPMENT INDICATES CIRCUIT NUMBER IN PANEL. PROVIDE WIRE AND CONDUIT TO INTERCONNECT THE ABOVE-MENTIONED ASSOCIATED SWITCHES, AND CONTROL DEVICES WITH SAME CIRCUIT NUMBERS. ROUTE TO PANEL VIA CONDUIT HOMERUN TO THE PANEL.
- PROVIDE THE BARS ON ALL SINGLE POLE CIRCUIT BREAKERS SERVING MULTI-WIRE BRANCH CIRCUITS IN COMPLIANCE WITH NECEC ARTICLE 210.4 (B). EXISTING CIRCUIT BREAKERS REQUIRING THE HANDLES SHALL BE REPLACED WITH NEW TRIP FREE HANDLE BREAKERS. NEW BREAKERS SHALL MATCH BASE BUILDING STANDARDS. SHALL BE FROM SAME MANUFACTURER OF EXISTING BREAKERS THAT ARE TO REMAIN IN PANEL, AND SHALL BE COMPATIBLE WITH PANELBOARD. CONTRACTOR SHALL COORDINATE REQUIREMENTS IN FIELD WITH EXISTING EQUIPMENT.
- THE CONTRACTOR SHALL DO NECESSARY CUTTING, CORING AND PATCHING FOR WORK UNDER THE CONTRACT. ALL CORING, ETC. SHALL BE PERFORMED AFTER HOURS AND COORDINATED WITH BUILDING MANAGEMENT.
- THE ARCHITECT SHALL VERIFY MOUNTING HEIGHTS OF ALL DEVICES, FINISHES OF ALL RECEPTACLES, SWITCHES, TELEPHONE OUTLETS, ETC. TO BE SELECTED BY ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL RECEPTACLES, TELEPHONE OUTLETS, FLOOR BOXES, ETC. CONSTRUCTION DOCUMENTS SHALL NOT BE SCALD.
- APPLICABLY ALIGN ALL LIGHT SWITCHES, STROBE DEVICES AND THERMOSTATS IN ALL AREAS.
- ALL DEVICES GANGED TOGETHER SHALL BE MOUNTED UNDER A SINGLE COVER PLATE.
- PROVIDE UNFUSED DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT UNLESS OTHERWISE NOTED ON CONSTRUCTION DOCUMENTS OF HVAC SCHEDULES.
- THE MINIMUM RATINGS OF DISCONNECT SWITCHES SHALL BE EQUAL TO OR GREATER THAN THE RATING OF THE PROTECTIVE DEVICES ON THE SUPPLY SIDE OF THE DISCONNECT SWITCH. MINIMUM DISCONNECT SWITCH SIZE IS 30 AMPERES.
- FURNISH AND INSTALL WIRING FOR EQUIPMENT FURNISHED BY OTHERS AS SHOWN ON ARCHITECTURAL, MECHANICAL, PLUMBING, AND/OR ELECTRICAL DRAWINGS. COORDINATE WITH OTHER TRADES FOR DETAILS OF INSTALLATION AND WIRING REQUIREMENTS.
- PROVIDE FIRESTOPPING ON ALL NEW PENETRATIONS THROUGH THE WALL AND FLOOR DUE TO DEMOLITION OR NEW CONSTRUCTION. THE FIRE RATINGS OF THE PENETRATION SEALING METHOD SHALL MATCH THE RATING OF THE WALL OR FLOOR. USE A UL LISTED SEALING METHOD WHICH IS ACCEPTABLE TO BUILDING MANAGEMENT.
- HANGING OF ALL TRANSFORMERS SHALL INCLUDE SEISMIC BRACING.
- FLOOR STANDING ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON 4" HOUSEKEEPING PAD.
- BRANCH CIRCUIT HOMERUN CONDUCTORS SHALL BE INCREASED ONE SIZE TO COMPENSATE FOR VOLTAGE DROP WHEN 120V CIRCUITS EXCEEDS 100 FEET.
- UPON COMPLETION OF ALL ELECTRICAL WORK, THE ELECTRICAL CONTRACTOR SHALL ADJUST AND TEST ALL OUTLETS, RECEPTACLES, SWITCHES, LIGHTS, MOTORS AND ANY OTHER ELECTRICAL ITEMS INSTALLED. ANY DEFECTIVE ITEMS SHALL BE IMMEDIATELY REPAIRED OR REPLACED WITH NEW AND THAT PORTION OF THE SYSTEM RETESTED. ALL SUCH REWORK WORK SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- COORDINATE WITH BUILDING MANAGER FOR ANY SERVICE INTERRUPTION OF EXISTING LIGHTING AND POWER PANELS AND GIVE NOTICE FIVE DAYS PRIOR TO ANY WORK.
- 110.26(F)(1)(A) DEDICATED ELECTRICAL SPACE. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6 FEET ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING SHALL BE DEDICATED TO ELECTRICAL INSTALLATIONS. NO PIPING, DUCTS, LEAK PROTECTION APPARATUS OR OTHER FOREIGN EQUIPMENT SHALL BE LOCATED IN THE SPACE. PER SECTION 110.26(F)(1)(A).
- ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY UL OR A COMPANY APPROVED THIRD PARTY TESTING FACILITY.
- THE CONTRACTOR SHALL PROVIDE PULL CORDS IN ALL EMPTY CONDUITS, WHERE MORE THAN ONE CONDUIT TERMINATES IN A JUNCTION BOX. THE ELECTRICAL CONTRACTOR SHALL IDENTIFY EACH JUNCTION AND CONDUIT IN A MANIPULATED WIRING IDENTIFICATION OF JUNCTION BOXES AND CONDUITS AFTER ALL WALL FINISHES HAVE BEEN APPLIED.
- ALL SWITCHBOARDS AND PANELBOARDS SHALL BE MARKED WITH IDENTIFYING NAMEPLATES TO INDICATE THE DESIGNATIONS USED ON THESE DRAWINGS. PROVIDE NEW PANELBOARD SCHEDULES, CORRECTLY FILLED OUT FOR EVERY PANEL.
- PROVIDE TYPEWRITTEN PANEL SCHEDULES TO BE MOUNTED ON INSIDE OF ALL PANEL COVER DOORS, REFLECTING THE AS-BUILT CIRCUITS FOR THE ENTIRE PROJECT.
- SUBMIT SHOP DRAWINGS AND PRODUCT DATA ACCORDING TO SPECIFICATIONS. CONTRACTOR SHALL PROVIDE COMPLETE AS-BUILT DRAWINGS IN AUTOCAD PRIOR TO COMPLETION OF PROJECT FOR REVIEW BY ARCHITECT/ENGINEER.
- EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL CONDUITS, RACEWAYS, UNDERGROUND PULL BOXES, JUNCTION CANALS, LIGHT BASES AND TRANSFORMER HOUSINGS. SIZE OF CONDUCTOR SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.
- THE MINIMUM SIZE OF CONDUITS SHALL BE 3/4". THE MINIMUM SIZE OF CONDUCTORS SHALL BE #12 AWG, UNLESS OTHERWISE NOTED.

LEGEND

WIRING AND WIRING DEVICES

WIRING

BRANCH CIRCUIT HOMERUN TO PANEL. NUMBER OF ARROWHEADS INDICATE NUMBER OF CIRCUITS. THREE CIRCUITS OF ALTERNATING PHASES MAY BE COMBINED IN ONE CONDUIT. HOWEVER THEY SHALL EITHER BE EQUIPPED W/ DEDICATED NEUTRALS, COMMON TRIP CIRCUIT BREAKERS, OR HANDLED-TIE ON THEIR BREAKERS. MOTOR PROVIDED AND INSTALLED BY MECH. CONTRACTOR. WIRE BY ELEC. CONTRACTOR. NUMERALS INDICATE HORSEPOWER. JUNCTION BOX. CEILING AND WALL MOUNTED.

- 'P' INDICATES SYSTEMS FURNITURE POWER WHIP. SEE DETAILS.
- 'C' INDICATES SYSTEMS FURNITURE COMMUNICATIONS WHIP. SEE DETAILS.

SINGLE SERVICE FLOORBOX / POKE-THROUGH, JUNCTION BOX.

- 'ON-GRADE' HUBBELL B2308 SERIES BOX OR APPROVED EQUAL, ULON.
- 'ABOVE GRADE' HUBBELL S1PT4X4-B BOX SERIES OR APPROVED EQUAL, ULON.
- 'P' INDICATES SYSTEMS FURNITURE POWER WHIP. SEE DETAILS.
- 'C' INDICATES SYSTEMS FURNITURE COMMUNICATIONS WHIP. SEE DETAILS.

RECEPTACLES

ALL RECEPTACLES SHALL BE A MINIMUM RATING OF 120 VOLT, 20 AMP, ULON. WALL MOUNTED BOX HEIGHTS SHALL BE TO CENTER. HORIZONTAL MOUNTED BOX HEIGHTS SHALL BE TO TOP, ULON.

- 'GF' INDICATES GROUND FAULT CIRCUIT INTERRUPTER.
- 'WP' INDICATES WEATHERPROOF OR USE. WEATHER-RESISTANT RECEPTACLE W/ IN-USE EXTRA DUTY COVER. RECEPTACLES LOCATED IN WET OR DAMP LOCATIONS SHALL BE WP, WHETHER INDICATED OR NOT.
- 'EWC' INDICATES ELECTRIC WATER COOLER.
- 'EX' INDICATES EXISTING TO BE REUSED.
- 'HD' INDICATES HAND DRIVER CONNECTION.
- 'TR' INDICATES TAMPER RESISTANT (INTEGRAL TO RECEPTACLE). ALL DWELLING UNIT DUPLEX RECEPTACLES SHALL BE LISTED TAMPER RESISTANT TYPE. ALL NON-LOCKING, 120V, 15A AND 20A RECEPTACLES SHALL BE TAMPER RESISTANT, EXCEPT IN MECHANICAL ROOMS, ELECTRICAL ROOMS, AND JANITORS CLOSETS, WHETHER INDICATED OR NOT.
- 'CH' INDICATES HALF CONTROLLED.
- 'C' INDICATES FULL CONTROLLED (BOTH PLUGS OF DUPLEX).
- 'SB' INDICATES RECEPTACLE FOR SMARTBOARD, SEE DETAIL.
- 'USB' INDICATES POWER/USB CHARGING.
- 'SHADING' INDICATES INDICATES DEVICE MOUNTED ABOVE COUNTER TOP 3" AFF, ULON.
- '1/2 SHADING' INDICATES DEVICE TO BE SWITCHED.

1/2 SHADING INDICATES DEVICE TO BE SWITCHED.

SIMPLEX RECEPTACLE, CEILING, FLOOR AND WALL MOUNTED.

DUPLEX RECEPTACLE, CEILING, FLOOR AND WALL MOUNTED. FLOOR IS SINGLE SERVICE FLOORBOX / POKE-THROUGH, ONE DUPLEX RECEPTACLE.

- 'ON-GRADE' HUBBELL B2308 SERIES BOX OR APPROVED EQUAL, ULON.
- 'ABOVE GRADE' HUBBELL S1PT4X4-B SERIES BOX OR APPROVED EQUAL, ULON.

DOUBLE DUPLEX RECEPTACLE, CEILING, FLOOR AND WALL MOUNTED.

220V RECEPTACLE, CEILING, FLOOR AND WALL MOUNTED.

- 'DRIVER' INDICATES NEMA 14-30P.

SPECIAL RECEPTACLE (AS INDICATED), CEILING, FLOOR AND WALL MOUNTED.

COMMUNICATIONS

OUTLETS SHALL BE MOUNTED AT SAME HEIGHT AS ADJACENT RECEPTACLE, W/ CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING.

- 'W' INDICATES 48" AFF MOUNTING.
- 'INT' INDICATES INTERCOM MOUNTED.

TELEPHONE OUTLET W/ 3/4" CEILING, FLOOR AND WALL MOUNTED.

DATA OUTLET W/ 1" CEILING, FLOOR AND WALL MOUNTED.

COMBINATION TEL / DATA OUTLET W/ 1" CEILING, FLOOR AND WALL MOUNTED.

WALL MOUNTED TV OUTLET W/ 1" CEILING, SEE ARCH PLANS FOR MOUNTING HEIGHT.

RECEPTACLE (SIMPLEX, DUPLEX, DOUBLE DUPLEX, 220V, OR SPECIAL), COMBINATION TEL/DATA OUTLET W/ 1" CEILING, AND INTERCOM OUTLET IN FLOOR / WALL BOX. W/ IMPROVED FS-SERIES OR APPROVED EQUAL, ULON.

SWITCHING

20A, 120/277 VOLT, 1" AFF TO TOP, ULON.

- '2' INDICATES 2 POLE.
- '3' INDICATES 3 WAY.
- '4' INDICATES 4 WAY.
- 'T' INDICATES 0-60 MINUTE TIMER SWITCH.
- 'K' INDICATES KEY OPERATED SWITCH.
- 'LV' INDICATES LOW VOLTAGE SWITCH.
- 'LV2' INDICATES 2-RELAY LOW VOLTAGE SWITCH.
- 'H' INDICATES LIGHTING CONTROL, ZONE. SEE LIGHTING CONTROL SCHEDULE FOR DETAILS.

SINGLE POLE SWITCH.

WALL MOUNTED, VACANCY SENSOR SWITCH, MANUAL-ON / AUTO-OFF, DUAL-TECHNOLOGY, PROVIDE COMPLETE ROOM COVERAGE.

MOTOR RATED DISCONNECT SWITCH.

CEILING MOUNTED, OCCUPANCY SENSOR SWITCH, AUTO-ON / AUTO-OFF, DUAL-TECHNOLOGY, PROVIDE COMPLETE ROOM COVERAGE.

TIMELOCK. REFER TO LIGHTING CONTROL DIAGRAM.

LOW VOLTAGE ELECTRIC PLUG STATION WITH BATTERY BACKUP 48" AFF, 10-20' FROM HAZARD, IN THE PATH OF EGRESS.

DISTRIBUTION DEVICES

- 'DASHED LINES ADJACENT TO EQUIPMENT INDICATES CLEARANCES.
- 'NLI' INDICATES FIXTURE UNBUNDLED IN/OUT LIGHT.
- 'NUMBERS INDICATE AMP FRAME / # POLES / AMP FUSE.
- 'NF' INDICATES NON-FUSIBLE.
- '240/208V PANELBOARD' SURFACE OR RECESS MOUNTED. SEE SCHEDULE FOR DETAILS.

COMBINATION UTILITY METER AND MAIN CIRCUIT BREAKER.

LIGHTING FIXTURES

SEE FIXTURE SCHEDULE FOR DETAILS.

- 'NLI' INDICATES FIXTURE UNBUNDLED IN/OUT LIGHT.
- 'LOWER CASE LETTERING DENOTES SWITCH / RELAY CONTROLLING THE FIXTURE.
- '1/2 SHADING' INDICATES FIXTURE TO BE PROVIDED W/ 90 MINUTE, MINIMUM BATTERY BACKUP.

CEILING MOUNT RECESSED SINGLE LED LIGHT BULB

STRIP LED LIGHT

WALL SOUNCED LED

CEILING MOUNTED EMERGENCY EXIT SIGN W/ DIRECTION AND BUG EYE.

REVISIONS: 001
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-123126 INC.
 REVIEWED FOR:
 DATE: 4/9/2025

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YOLO COUNTY
 VETERINARY CLINIC
 2640 EAST GIBSON ROAD

BB24-085
 Review for
 Code Compliance
 Approved

DATE: 01/18/25
 SCALE: AS NOTED
 DRAWN: DB
 CHECKED: DB
 APPROVED: DB
 FILE NAME:
 SHEET:
 EO.1

ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
&	AND	KW	KILOWATT
1/C	SINGLE CONDUCTOR	LF	LINEAR FEET
AT	AT	LPMC	LOADING POINT FLEXIBLE METAL CONDUIT
A OR AMP	AMPERES	LGST	LARGEST
A.C.	ASPHALT CONCRETE	LIT	LOAD INTERRUPTER SWITCH
ABV	ABOVE	LOC	LOCATION
AF	AMFUSE FUSE RATING	LOO	LOOK-OUT TAG
AFC	AVAILABLE FAULT CURRENT	LSI	LONG TERM SHORT TERM
AFB	ABOVE FINISHED FLOOR	INST	INSTANTANEOUS
AFG	ABOVE FINISHED GRADE	LSG	LONG TERM SHORT TERM INSTANTANEOUS GROUNDING
AC	AMFUSE INTERRUPTING CAPACITY	LV	LOW VOLTAGE
ALUMINA	ALUMINA	LTG	LIGHTING
APPROX.	APPROXIMATE	LV	LOW VOLTAGE
ARCH.	ARCHITECT, ARCHITECTURAL	M	METER
AS	AMFUSE SWITCH RATINGS	MAX	MAXIMUM
ASCC	AVAILABLE SHORT CIRCUIT CURRENT	MCA	MINIMUM CIRCUIT AMPS
ATC	AIR TERMINAL CHAMBER	MCC	MOTOR CONTROL CENTER
ATO	AUTOMATIC THROW-OVER (SWITCH)	MCP	MOTOR CIRCUIT PROTECTOR
ATS	AUTOMATIC TRANSFER SWITCH	MFR	MANUFACTURER
AUTO	AUTOMATIC	MH	MANHOLE
AUX	AUXILIARY	MIL	MECHANICAL INTERLOCK
AWG	AMERICAN WIRE GAUGE	MIN	MINIMUM
B.S.	BARE STRANDED	MOPC	MAXIMUM OVERCURRENT PROTECTION
BAT	BATTERY	MNCT	MULTI-RATIO CURRENT TRANSFORMER
BSL	BELOW	MTD	MOUNTED
BKB	BACKBOARD	MTG	MOUNTING
BRK	BREAKER	MTR	MOTOR
BRKNG	BREAKING	MTB	MAIN TELEPHONE TERMINAL BOARD
C	CONDUIT	MV	MEDIUM VOLTAGE
C	CONDUIT ONLY WITH PULL WIRE	N	NORTH
CB	CIRCUIT BREAKER	NC	NOT IN CONTRACT
CEC	CALIFORNIA ELECTRICAL CODE	NEC	NATIONAL ELECTRICAL CODE
CHK	CHECK	NE	NON-FLEXIBLE
CL	CENTER LINE	NC	NOT IN CONTRACT
CLJ	CEILING	NL	NIGHT LIGHT - 24HRS ON
CMG	CONCRETE MASONRY UNIT	NR	NUMBER
COL	COLUMN	OC	ON CENTER
CP	COMMUNICATION PROCESSOR	OCP	OVERCURRENT PROTECTIVE DEVICE
CPT	CENTRAL POWER TRANSFORMER	OD	OUTSIDE DIAMETER
CR	CONTROL RELAY	OF	OVERHEAD ELECTRICAL
CSFD	COMBINATION SMOKE FIRE DAMPER	OFC	OIL FUSED OUTLET
CT	CURRENT TRANSFORMER	OH	OVERHEAD
CU	COPPER	OL	OIL LEVER SWITCH
CV	COLD WATER	PC	PROGRAMMABLE AUTOMATION CONTROLLER
DIAG	DIAGRAM	PB	PULL BOX
DIS	DISCONNECT	PH	PHOTOCELL
DIET	DAMP LOCATION LISTING	PB	POLYCHLORINATED BIPHENYL
DM	DIGITAL METER	PBS	PRESSURE DIFFERENTIAL SWITCH
DMM	DIGITAL METER MODULE	PF	POWER FACTOR
DP	DISTRIBUTION PANEL	PH OR Ø	PIPER
DWG	DRAWING	PLC	PLC
DWP	DEPARTMENT OF WATER & POWER	PI	POST INDICATING LEAD COVER
EA	EACH	PL	PLATE
EM	ELECTRICAL CONTRACTOR	PLC	PROGRAMMABLE LOGIC CONTROLLER
ELEC	ELECTRICAL	PNL	PANEL
EM	EMERGENCY	POC	POINT OF CONNECTION
EHO	ELECTRICAL MAN-HOLE	PREF	PREFERRED
EMT	ELECTRICAL METALLIC TUBING	PRM	PRIMARY
EPP	EMERGENCY POWER OFF	PVC	POLY-VINYL CHLORIDE
EQU	ETHYLENE PROPYLENE RUBBER EQUIPMENT	PWR	POWER
ERR	EXISTING TO BE RELOCATED AND RECONNECTED	RCR/RCRPT	RECEPTACLE
EXT	ELECTRICAL TESTING LABORATORIES	REQD	REQUIRED
EXTL	EXISTING	RGS	RIGID GALVANIZED STEEL
EXP	EXPLOSION PROOF	RM	ROOM
FA	FIRE ALARM	RMC	RIGID METAL CONDUIT
FAC	FIRE ALARM CONTROL PANEL	RRPB	RIGID REDUCED PRESSURE BACK FLOW RESISTANT
FATC	FIRE ALARM TERMINAL CABINET	RTAC	REMOTE TERMINAL CONTROLLER
FTE	FINISHED FLOOR ELEVATION	SCCR	SHORT CIRCUIT CURRENT RATING
FNH	FINISH	SCF	SOUTHERN CALIFORNIA EDISON SQUARE FEET
FL	FIELD INTERFACE PANEL	SF	SQUARE FEET
FMT	FITTING	SH	SHIELD TWISTED PAIR
FP	FULL LOAD AMPS	SKG	SIGNAL
FLOOR	FLOOR	SPR	SPRINKLER
FLR	FLOOR/CEILING	SPCS	SPECIFICATIONS
FMC	FLEXIBLE METAL CONDUIT	ST	STREET
FO	FIBER OPTIC	STD	STANDARD
FT	FEET	STP	SHIELDED TWISTED PAIR
FT	FOOTING	SW	SWITCH
GEN	GENERATOR	SWBD	SWITCHBOARD
GF	GROUND FAULT INTERRUPTER	SWGR	SWITCHGEAR
GFR	GROUND FAULT RELAY	SWST	SWITCHING STATION
GR	GREEN GROUND	T.O.D.	TOP OF DUCT/BANK
GND	GROUND	T.O.M.	TOP OF MAN-HOLE
HCA	HAND-OFF-AUTOMATIC	TB	TERMINAL BLOCK
HP	HORSEPOWER	TEL, TELE	TELEPHONE
HT	HEIGHT	TMH	TELEPHONE MANHOLE
HTR	HEATER	TPS	TWISTED SHIELDED PAIR
HV	HIGH VOLTAGE	TRNSF, XMR	TRANSFORMER
HZ	HERTZ	TS	TAMPER SWITCH
I	INSULATION CONTACT	TYP	TYPICAL
ICON	INTEGRATED COMMUNICATIONS OPTICAL NETWORK	UG	UNDERGROUND
IE	INVERT ELEVATION	UNL	UNLESS OTHERWISE NOTED
IED	INTERMEDIATE ELECTRONIC DEVICE	V	VOLTS
IMC	INTERMEDIATE METAL CONDUIT	VA	VOLT-AMPERES
INCAND	INCANDESCENT	VB	VIBRATION SWITCH
ISC	SHORT CIRCUIT CURRENT	VFD	VARIABLE FREQUENCY DRIVE
J, JB, J BOX	JUNCTION BOX	W	WATTS
KCML	THIS/DIAGNOSTIC CIRCULAR MILS	W	WITH
KV	KILOVOLT	WO	WITHOUT
KVA	KILOVOLT-AMPERES	WP	WEATHERPROOF
		Z	IMPEDANCE

NOT ALL ABBREVIATIONS ARE USED IN EVERY DESIGN

DIVISION 26 - ELECTRICAL SPECIFICATIONS

GENERAL ELECTRICAL REQUIREMENTS

- TURNISH AND INSTALL AND PROVIDE AN EQUIVALENT ITEMS WHICH INDICATE MATERIALS AND EQUIPMENT SUPPLIED AND INSTALLED BY THIS CONTRACTOR. FURNISHED IDENTIFY MATERIAL OR EQUIPMENT SUPPLIED BUT NOT INSTALLED BY THIS CONTRACTOR. METAL IDENTIFY THE SETTING POSITION OR CONNECTION OF MATERIAL OR EQUIPMENT BY THIS CONTRACTOR BUT SUPPLY BY OTHERS.
- IT IS THE REQUIREMENT OF THESE CONTRACT DOCUMENTS TO HAVE THE CONTRACTOR PROVIDE THE MATERIALS AND COMPONENTS THAT ARE FULLY COMPLETE AND OPERATIONAL, AND FULLY SUITABLE FOR THE INTENDED USE.
- DRAWINGS ARE DIAGNOSTIC AND SHOULD BE SCALED TO DETERMINE EXACT LOCATIONS. VERIFY ALL LOCATIONS & REQUIREMENTS OF EQUIPMENT FURNISHED AND/OR INSTALLED BY OTHERS BEFORE BEGINNING WORK.
- ELECTRICAL SYSTEMS SHALL BE INSTALLED AS A COMPLETE INSTALLATION. INCIDENTAL DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION AND OPERATION SHALL BE INCLUDED IN THE WORK OF THIS CONTRACTOR.
- THE CONTRACTOR SHALL SURVEY THE JOBSITE PRIOR TO SUBMITTING THEIR BID TO DETERMINE THE FOLLOWING:
 - AREAS REQUIRING DEMOLITION, TEMPORARY POWER, RELOCATING, ETC. WHICH ARE INDICATED BUT NOT SHOWN ON THE DRAWINGS.
 - PROBLEMS WITH WORK SEQUENCE.
 - ANY UNUSUAL CONDITIONS NOT SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE ENGINEER PRIOR TO BIDDING.
- ACCEPTABLE MANUFACTURERS: THE LISTING OF A MANUFACTURER AS "ACCEPTABLE" UNDER ANY DIVISION REQUIREMENTS DOES NOT IMPLY AUTOMATIC APPROVAL. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ANY SUBMITTAL IS MADE AS FOR PRODUCTS THAT MEET OR EXCEED THE SPECIFICATIONS INCLUDED HEREIN.
- UPON COMPLETION OF THE WORK, BUT BEFORE FINAL ACCEPTANCE OF THE SYSTEM AND REQUEST FOR FINAL PAYMENT FROM THE OWNER, FOR APPROVAL, OPERATION AND MAINTENANCE MANUALS IN LOOSE-LEAF BINDERS PROVIDE A MINIMUM OF 4 SETS. MANUALS SHALL INCLUDE:
 - SUBMITTAL DATA STATING EQUIPMENT RATINGS AND SELECTED OPTIONS FOR EACH TYPE OF EQUIPMENT.
 - OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT.
 - OPERATION AND MAINTENANCE MANUALS FOR EACH ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
 - NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
- PROVIDE OWNER WITH A RECORD SET OF AS-BUILT DRAWINGS WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE FROM A DESIGNATED MARKED-UP SET OF BLUEPRINTS INCLUDING:
 - A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM
 - FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION
 - PROVIDE TEMPORARY ELECTRICAL POWER TO JOBSITE FOR THE DURATION OF THE PROJECT.
 - PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT (SWITCHBOARDS, TRANSFORMERS, ETC.)
- DIVISION 26 SUB-CONTRACTOR SHALL REVIEW AND SIGN DRAWINGS AND VERIFY EQUIPMENT VOLTAGE, PHASE AND AMPS PRIOR TO ROUGH-IN OF ALL EQUIPMENT.
- ALL EQUIPMENT DEVICES, ETC. FURNISHED BY ELECTRICAL CONTRACTOR SHALL BE LISTED OR EQUIVALENT NATIONAL TESTING AGENCY FOR ITS INTENDED PURPOSE. INFORM OWNER THAT ALL OWNER FURNISHED EQUIPMENT, DEVICES, ETC. MUST ALSO HAVE A LISTING OR EQUIPMENT LISTING.
- ALL ELECTRICAL COMPONENTS CONDUIT, WIRE, FITTINGS, SUPPORTS, CIRCUIT BREAKERS, LAMPS, ETC. PROVIDED AND INSTALLED IN THIS PROJECT SHALL BE BRAND NEW. REUSE OF EXISTING COMPONENTS WILL NOT BE APPROVED.
- UTILITY COORDINATION: CONTRACTOR SHALL SUBMIT COMPLETE SET OF CONSTRUCTION DOCUMENTS TO UTILITY COMPANY IMMEDIATELY AFTER RECEIVING NOTICE TO PROCEED OR PRIOR TO ANY SITE OR BUILDING ROUGH-IN. COORDINATE EXISTING LOCATIONS BETWEEN OWNER AND UTILITY COMPANY. VERIFY WITH UTILITY COMPANY PROPOSED VOLTAGE, PHASE, POLE MOUNT, TRANSFORMER LOCATIONS, METERING, UTILITY PRIMARY ROUTING AND CONDUIT REQUIREMENTS, ETC.

ELECTRICAL IDENTIFICATION

- PROVIDE CABLE/CORDOUT IDENTIFICATION TAGS.
- PROVIDE ENGRAVED PLASTIC LAMINATE SIGNS, WHITE LETTERING ON A BLACK BACKGROUND, FOR EACH UNIT OF THE FOLLOWING CATEGORIES OF ELECTRICAL WORK: SWITCHBOARDS, MOTOR STARTERS, TRANSFORMERS, PANELBOARDS, DISCONNECTS, AND JUNCTION BOXES. NAME PLATES SHALL IDENTIFY PANEL, DESIGNATION, NAME, VOLTAGE, PHASE AND WIRE CONFIGURATION.
- UNDERGROUND CABLE/CORDOUT IDENTIFICATION PLASTIC LINE MARKERS SHALL BE PROVIDED THE CONTIGUOUS TRENCH LENGTH.

ELECTRICAL DEMOLITION AND ALTERATIONS

- ANY EXISTING CIRCUITS OR EQUIPMENT NOT SHOWN ON DRAWINGS AND WHICH ARE LOGICALLY EXPECTED TO BE CONTINUED IN SERVICE SHALL BE RECONNECTED IN AN APPROVED MANNER.
- WIRING TO ELECTRICAL EQUIPMENT BEING DISCONNECTED SHALL BE RECONNECTED TO THEIR OVERCURRENT DEVICE OR BACK TO NEAREST ACTIVE JUNCTION BOX.
- CONTRACTOR SHALL PROVIDE SUPPORT FOR EXISTING CONDUIT IN REMOVED AREAS THAT IS TO REMAIN AND IS NOT PROPERLY SUPPORTED IN ACCORDANCE WITH NEC/CEC REQUIREMENTS.
- EXCEPT FOR CONDUIT, CONDUCTORS AND MISCELLANEOUS HARDWARE, ALL ELECTRICAL EQUIPMENT SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STORED OR DISPOSED OF AS DIRECTED BY OWNER.

CONDUIT & RACEWAYS

- MINIMUM SIZE CONDUIT SHALL BE 1/2". DOES NOT APPLY TO M/CABLE.
- RECEPTACLES SHALL BE GENERAL DUTY CIRCUI 2 POLE, 3W. GROUNDING, 20A, 125V, DESIGNED FOR SIDE AND BACK WIRING WITH NEMA CONFIGURATION 5-15R. RESISTANCE TO THE BURNING. M/C CABLE MAY NOT BE USED FOR ANY HOMERUN.
- ALL CONDUIT SHALL BE CONCEALED. CONDUIT SHALL BE EMT IN INTERIOR AREAS, AND RIGID GALVANIZED STEEL CONDUIT IN EXTERIOR AREAS.
- CONDUIT SHALL BE INSTALLED WITH W/TH-DUCTWORK, PLUMBING PIPING AND SPRINKLER PIPING.
- SECURE CONDUIT SHALL WITH CORROSION-RESISTANT ALLOY STRIPS AT SPACING AS REQUIRED BY CEC/CONDUIT SHALL BE SECURED TO BUILDING STRUCTURE.
- INSTALL FLEXIBLE STEEL CONDUIT NOT OVER 3' LONG TO MOTORS, TRANSFORMERS AND EQUIPMENT SUBJECT TO VIBRATION.
- INSTALL LIQUID-TIGHT FLEXIBLE CONDUIT NOT OVER 3' LONG WHERE SUBJECT TO MOISTURE, DIRT OR FLAMES.
- TYPE M/CABLE MUST BE INTER-LOCKING JACKET TYPE. CABLE SHALL BE SUPPORTED AT NOT MORE THAN 36" FOOT INTERVALS AND ALL FITTINGS AND CONDUIT SHALL MINIMIZE FLOOR AND PENETRATIONS.
- USE ABOVE DROP CELINGS AND INTERIOR PARTITIONS.
- CONTRACTOR SHALL MINIMIZE FLOOR AND PENETRATIONS.
- ALL CONDUIT RUNS SHALL BE DESIGNED TO PRESENT A NEAT AND ORDERLY APPEARANCE. RUNNING LINES PARALLEL WITH BUILDING STRUCTURE OR WALLS.
- ROOF TOP UNITS AND EXHAUST FANS ARE TO BE WIRED THROUGH THE ROOF CURBS OR UTILIZE FACTORY-FABRICATED ROOF PIPING CURBS. PITCH ROOF TOPS ARE NOT ALLOWED.
- R/OMEX CABLE IS PERMITTED.
- CONDUIT SHALL BE ROUTED PERPENDICULAR THROUGH RATED WALLS. PROVIDE PROPER SEALS AND FIRE STOPPING AGENTS.
- PROVIDE UL APPROVED FIRE SEALS FOR ALL FIRE RATED WALL AND FLOOR PENETRATIONS.

WIRING CABLES AND CONNECTIONS

- ALL CONDUCTORS SHALL BE COPPER WITH 60/67/75°C WITH THIN/THIN/THIN INSULATION FOR USE WITH BUILDING CONFINES, WHERE INSTALLED BEYOND THE BUILDING CONFINES, SUCH AS IN NON-FLOOR PENETRATIONS OR CONDUIT TO SITE LUMINAIRES IT SHALL BE COPPER WITH 90°C, 90/90/90°C INSULATION.
- USE 100% COPPER BARE COPPER WIRE.
- USE SOLID CONDUCTOR, SINGLE CONDUCTOR, NO. 12 AWG MINIMUM FOR NUMBER 10.
- USE STRANDED CONDUCTOR, SINGLE CONDUCTOR, NO. 12 AWG AND LARGER, FOR MOTORS AND OTHER INSTALLATIONS WHERE VIBRATION IS GENERATED. COLOR CODING SHALL DENOTE THE SAME TO BE THROUGHOUT THE SYSTEM FROM SERVICE SWITCH OR TRANSFORMER THROUGH ALL BRANCH CIRCUITS. ALL WIRING SHALL BE COLOR-CODED AS FOLLOWS:

WIRE COLOR	PHASE	NEUTRAL	WHITE
PHASE A	PHASE B	PHASE C	NEUTRAL
- A STANDARD 500 MEGGER INSULATION TEST SHALL BE MADE AND RECORDED FOR ALL FEEDER CIRCUITS. PROVIDE A COPY OF TEST RESULTS TO ENGINEER FOR REVIEW.
- MINOR WORK SHALL BE USED FOR RESIDENTIAL BUILDINGS INTERNAL CONNECTIONS ONLY.
- PROVIDE LOSS FOR FEEDER SIZES INDICATED ON DRAWINGS OR AS REQUIRED.
- WIRE SIZE FOR 120V BRANCH CIRCUITS SHALL BE PER THE FOLLOWING LENGTHS OR RUNS:
 - 1 TO 10 FT RUN: INCREASE ONE WIRE SIZE; LEAD TO 12 AWG BECOMES NO. 10 AWG TO FIRST OUTLET.
 - 10 TO 20 FT RUN: INCREASE ONE WIRE SIZE; LEAD TO 12 AWG BECOMES NO. 10 AWG TO FIRST OUTLET.
 - 20 TO 325 FT RUN: INCREASE TWO WIRE SIZES; LEAD TO 12 AWG BECOMES NO. 10 AWG TO FIRST OUTLET.
 - 326 AND ABOVE WIRING SHALL BE SIZED FOR 16 MM MAXIMUM VOLTAGE DROP.

BOXES

- WALL OUTLET BOXES SHALL BE 4 INCH SQUARE WITH A TOTAL DEPTH OF LESS THAN 2 1/2" (GALVANIZED PRESS STEEL WITH HATCH RINGS OR GANG COVER, OR SIZED AS REQUIRED).
- ALL BOXES FOR ELECTRICAL EQUIPMENT SHALL HAVE COVERS.
- DO NOT INSTALL BOXES BACK TO BACK OR THROUGH WALL. OFFSET OUTLET BOXES ON OPPOSITE SIDES OF WALL A MINIMUM OF 1/2" OR ON OPPOSITE SIDES OF 1/2" IN PATTERN WALLS. WIRING BACK TO BACK BOXES CANNOT BE AVOIDED. PROVIDE CRYSTAL BOARD BETWEEN BOXES. PROVIDE PUTTY PATCH ON ALL BOXES WHERE REQUIRED.
- IF A K.O. IS AVAILABLE IN THE BASE JUNCTION BOX, THEN NO TERMINATIONS ARE ALLOWED IN THE EXTENSION RINGS.

CONDUIT FITTINGS

- COMPRESSION TYPE STEEL OR STEEL SETSCREW TYPE SHALL BE UTILIZED WITH METALLIC BOXES.
- PROVIDE PROPER EXPANSION FITTINGS WHEN CROSSING BUILDING EXPANSION JAMES.

MOTOR AND CIRCUIT DISCONNECTS

- DISCONNECT SWITCHES MAY BE GENERAL DUTY FOR 200V.
- PROVIDE RAIN TIGHT HUBS FOR EXTERIOR DISCONNECTS.
- PROVIDE CLASS R REDUCTION FUSE CLIPS & CLASS R FUSES.
- FUSES SHALL BE MANUFACTURED BY BUSMANN, LITTLE OR GOLD-SHAWM.
- SERVICE DISCONNECT SWITCH SHALL BE HEAVY DUTY TYPE.

WIRING DEVICES

- WIRING DEVICES SHALL BE MANUFACTURED BY LEVITON OR APPROVED EQUAL.
- RECEPTACLES SHALL BE GENERAL DUTY CIRCUI 2 POLE, 3W. GROUNDING, 20A, 125V, DESIGNED FOR SIDE AND BACK WIRING WITH NEMA CONFIGURATION 5-15R. RESISTANCE TO THE BURNING. M/C CABLE MAY NOT BE USED FOR ANY HOMERUN.
- ALL OUTLET RECEPTACLES SHALL BE TAMPER RESISTANT.
- ALL RECEPTACLE SHALL BE AFCI UNLESS OTHERWISE NOTED.
- ALL DWELLING UNIT RECEPTACLES SHALL BE TAMPER RESISTANT.
- GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES SHALL NEMA 5-20R. DESIGN SELECTION, LOCATION OR APPROVED EQUAL.
- SWITCHES SHALL BE GENERAL DUTY SINGLE POLE AC QUIET SWITCHES 15A. DESIGN SELECTION, LOCATION OR APPROVED EQUAL.
- PROVIDE SMOOTH FINISH CONFINES FOR ALL DEVICES.

PANELBOARDS

- PROVIDE LIGHTING AND APPLIANCE PANELBOARDS & POWER DISTRIBUTION PANELBOARDS WITH DEAD FRONT. FULL SIZE NEUTRAL & BOLT-ON HEAVY DUTY, QUICK MAKE, QUICK BREAK CIRCUIT BREAKERS & PANEL BOARDS SHALL BE UL LISTED.
- INSTALL PANELBOARDS SO TOP BREAKER IS NOT HIGHER THAN 6' 0" ABOVE FLOOR.
- CONTRACTOR SHALL BALANCE PHASES IN PANELBOARD SO THAT LOAD IMBALANCE DOES NOT EXCEED 10%.
- PANELBOARD SHALL INCLUDE COMPLETE TYPEWRITTEN DIRECTORY.
- PROVIDE SHARE CONDUITS TO CEILING CAVITY FOR SPACES SPACES IN RECESSED PANELBOARDS. PROVIDE 1/16" FOR EVERY SPACES.
- PROVIDE 100V POWER TO 400V CIRCUIT BREAKER SHUNT-TRIPS FROM NEAREST 120V PANELBOARD.
- LOAD CENTERS SHALL BE DEAD FRONT, FACTORY ASSEMBLED, FULL SIZE NEUTRAL AND GROUND BAR. NOTE: IF LOAD CENTERS CANNOT BE FABRICATED TO MEET THE MINIMUM REQUIREMENTS SPECIFIED, PROVIDE LIGHTING & APPLIANCE PANELBOARDS WITH BOLT-ON BREAKERS.
- NON-LINEAR PANELBOARDS SHALL BE PROVIDED WHERE INDICATED ON PLANS. EQUIP. 20V 250V NEUTRAL.
- PROVIDE UL LISTED BREAKERS FOR EXISTING PANELBOARDS TO MATCH MANUFACTURER & AC RATINGS.
- PROVIDE ACHT FAULT CIRCUIT INTERRUPTER/BREAKERS FOR ALL CIRCUITS SERVING BEDROOMS OF DWELLING UNITS PER NEC/CEC 210.12.
- ALL BREAKERS SERVING MECHANICAL, REFRIGERATION, OR OTHER EQUIPMENT WHERE REQUIRED, SHALL BE HACR RATED.
- BREAKERS AND LIGHTING LOADS SHALL BE HO DATED.
- BREAKERS SERVING ELEVATOR SHALL BE SHUNT-TRIP TYPE.
- BREAKERS SERVING CIRCUITS UNDER KITCHEN HOODS SHALL BE SHUNT-TRIP TYPE.

LIGHTING

- UL LABELS MUST APPEAR ON ALL NEW LIGHTING FIXTURES. FLEXIBLE CONDUIT TALS, UP TO 6" IN LENGTH, MAY BE USED BETWEEN JUNCTION BOXES & LIGHTING FIXTURES. OUTLET BOXES MAY SERVE UP TO FOUR SEPARATELY RECESSED FIXTURES. ALL LED SHALL BE ELECTRONIC HIGH-POWER FACTOR (H.I.) LED.
- PROVIDE PROPER TRIM PER REFLECTED CEILING PLAN OR ACTUAL CEILING INSTALLED.
- PROVIDE NEW LAMPS IN ALL NEW FIXTURES.
- PROVIDE FOUNDATIONS FOR ALL SITE LIGHTING FIXTURES/POLES AS RECOMMENDED BY MANUFACTURER. REFER SEE PLAN FOR DETAIL.
- SITE LIGHTING POLE FIXTURES SHALL BE RATED FOR 10 MPH WINDS WITH 1.3 GUST FACTOR FOR SBC.
- SITE LIGHTING FIXTURES LOCATED BETWEEN PARKING SPACES OR SUBJECT TO BEING DAMAGED BY ROCKS, SHALL BE PROVIDED WITH 2" HIGH X 2" DIAMETER CONCRETE BASES.
- LIGHTING FIXTURES IN MECHANICAL ROOMS, ETC., SHALL BE COORDINATED WITH EQUIPMENT.
- LAMPS SHALL BE MANUFACTURED BY OSRAM SYLVANIA, G.E., PHILIPS OR VENTURE OR EQUAL.
- BALLASTS SHALL BE MANUFACTURED BY OSRAM SYLVANIA, G.E., PHILIPS OR VENTURE OR EQUAL.
- EMERGENCY BATTERY BALLASTS SHALL BE 1400 LUMENS MINIMUM UNIVERSAL ADVANCE ES OR OUTLINE.
- EMERGENCY BATTERY BALLASTS SHALL BE 1400 LUMENS MINIMUM UNIVERSAL ADVANCE ES OR OUTLINE.
- EMERGENCY BATTERY BALLASTS SHALL BE 1400 LUMENS MINIMUM UNIVERSAL ADVANCE ES OR OUTLINE. PROVIDE AS BEING CONTROLLED BY DUAL LEVEL SWITCHING.
- ALL INTERIOR LAMPS SHALL BE 300V, 300W, 180V KELVIN TEMPERATURE AS NOTED. COORDINATE WITH ARCHITECT FOR EXACT COLOR RENDERING.
- EMERGENCY BATTERY BALLASTS AND BATTERY OPERATED EDT SIGNS AND/OR EMERGENCY LIGHTS SHALL BE WIRED AS PER LOCAL SWITCHING MEANS.
- EMERGENCY LIGHTING AND/OR EXIT LIGHTS SHALL BE INSTALLED WHERE DESIGNATED BY THE BUILDING OFFICER, AS PER CEC.

GROUNDING

- PROVIDE INSULATED GROUND CONDUCTORS WITH CONDUITS.
- PROVIDE GROUNDING BUSHINGS FOR FEEDER CONDUITS.
- TRANSFORMERS SHALL BE GROUNDED TO BUILDING STEEL, WITH EXOTHERMIC CONNECTIONS.
- SERVE GROUND RESISTANCE SHALL BE MEASURED WITHIN DEPENDING ON WATER PIPING SYSTEM & SHALL BE 20 OHMS LESS IF GREATER THAN 500. DRIVE ADDITIONAL GROUND RODS TO OBTAIN REQUIRED RESISTANCE.
- GROUND METAL LIGHTING POLES AS REQUIRED BY NEC/CEC.

SWITCHBOARDS

- SWITCHBOARDS SHALL BE MULTI SECTION (LINE SWITCHBOARDS).
 - SWITCHBOARDS SHALL BE BACK-TO-BACK AND FULLY FRONT ACCESSIBLE.
 - PROVIDE STANDING ALONE, MICROPROCESSOR BASED, 1/4 HP POWER METERING DEVICE MOUNTED RECESSED IN FRONT OF SWITCHBOARDS. PROVIDE CURRENT TRANSFORMERS & RELAYING IN SIZES AS REQUIRED.
 - MAIN BREAKER SHALL BE 100% CURRENT RATED & INCLUDE GROUND FAULT & SHUNT-TRIP.
 - NEEDLE CHECK PHASE TO PHASE & PHASE TO GROUND INSULATION LEVELS PRIOR TO ENERGATION.
- SUPPORTING DEVICES**
- LIGHTING FIXTURES SHALL BE SUPPORTED FROM BUILDING STRUCTURE A NOT FROM CEILING GRID. SECURE A MINIMUM OF TWO CORNERS (OPPOSITE) TO STRUCTURE ABOVE WITH CHAIR OR WIRE.
 - FASTEN CONTACT TO STRUCTURAL PARTS OF BUILDING.

REVISIONS: _____

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-123126 INC.
 REVIEWED FOR: _____
 DATE: 4/3/2025

89 FLS ACS
 81-1231-2326
 www.montereyenergygroup.com
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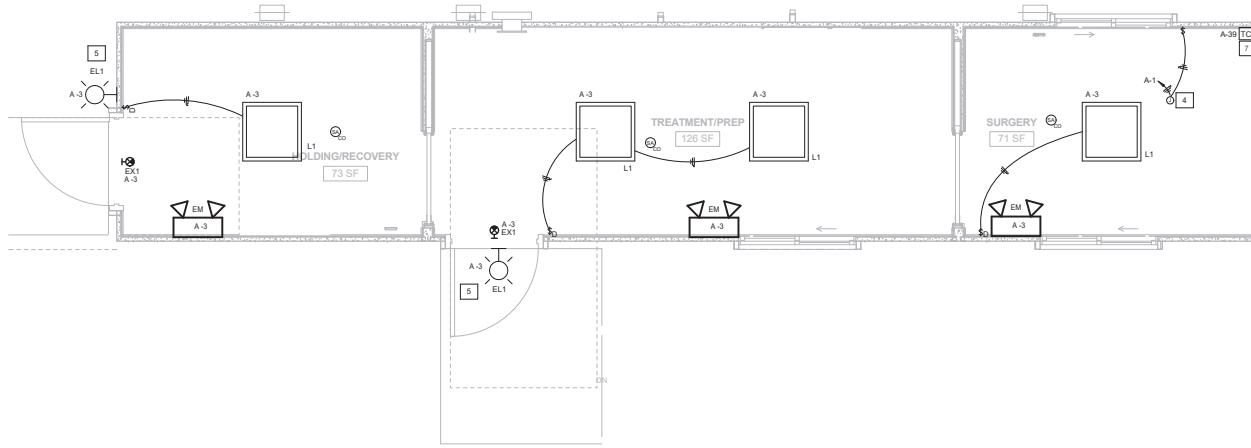
MONTEREY ENERGY GROUP
 Consulting Mechanical Engineering
 2646 Carmel Ranch Blvd, Suite 8, Carmel, CA 93923
 831-323-3236
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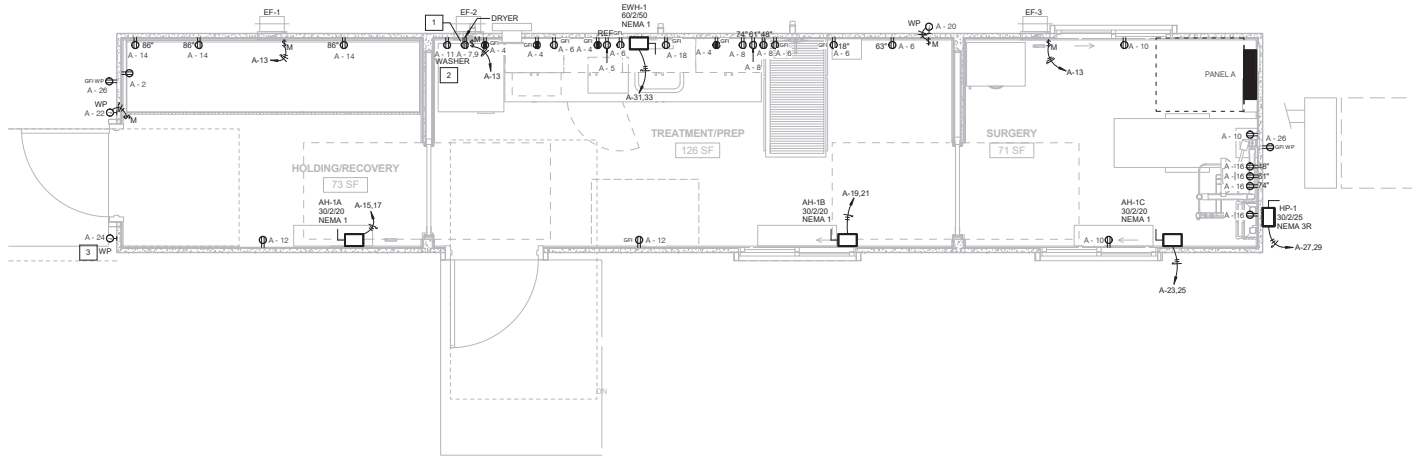
YOLO COUNTY VETERINARY CLINIC
 2640 EAST GIBSON ROAD

BB24-089
 Reviewed for
 Code Compliance
 Approved

DATE:	01/18/25
SCALE:	AS NOTED
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APPROVED:	DB
FILE NAME:	
SHEET:	



2 ELECTRICAL LIGHTING FLOOR PLAN
SCALE: 1/2" = 1'-0"



1 ELECTRICAL POWER FLOOR PLAN
SCALE: 1/2" = 1'-0"

GENERAL NOTES

- REFER TO MECHANICAL DRAWINGS FOR THE EXACT HVAC EQUIPMENT LOCATIONS.
- REFER TO PLUMBING DRAWINGS FOR THE EXACT PLUMBING EQUIPMENT LOCATIONS.
- COORDINATE ALL LOW VOLTAGE COMMUNICATION, ACCESS, SECURITY, CCTV, CONDUIT AND WIRING REQUIREMENTS WITH LOW-VOLTAGE CONTRACTOR AND PROVIDE CONDUITS AND WIRES AS REQUIRED FOR COMPLETE INSTALLATION. PROVIDE ALL REQUIRED LOW VOLTAGE ELECTRICAL CONNECTION FOR A COMPLETE FUNCTIONAL SYSTEM.
- COORDINATE WITH FIRE ALARM CONTRACTOR FOR THE FIRE ALARM DRAWINGS. FIRE ALARM SHALL BE DESIGN BUILT ON A SEPARATE PERMIT.
- ALL OUTDOOR LIGHTING FIXTURE EXPOSED TO WET LOCATIONS SHALL BE WEATHERPROOF RATED. OUTDOOR FIXTURES LOCATED ON THE COVERED CEILING SPACES SHALL BE DAMP RATED FIXTURES.
- REFER TO THE LATEST ARCHITECTURAL AND/OR INTERIOR DESIGNER AND/OR KITCHEN EQUIPMENT CONSULTANT DRAWINGS FOR DIMENSIONS AND FINAL LOCATION AND MOUNTING INFORMATION FOR KITCHEN EQUIPMENTS AND LIGHTS FIXTURES.
- VERIFY EXACT SWITCH LOCATION AND MOUNTING HEIGHTS PRIOR TO INSTALLATION.
- LOWER CASE LETTER INDICATES THE SWITCHING DESIGNATION.
- CONDUIT RUNS ARE DIAGRAMMATIC ONLY. E.C. TO VERIFY FEASIBLE CONDUIT ROUTING.
- OBSERVE CLEAN ELECTRICAL INSTALLATION ALL THROUGHOUT THE SPACE.
- NO CONDUIT AND FEEDER WILL BE INSTALLED EXPOSE AREA. CONDUIT SHALL BE INSTALLED ABOVE CEILING SPACE AND/OR CONCEALED TO WALL SPACES.
- ALL FEEDER WIRES SHALL BE COPPER (CU), UNLESS NOTED OTHERWISE.
- FOR 15A, 20A, 25A AND 30A BRANCH CIRCUIT, THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE THE SAME AWG AS THE UNGROUNDED CONDUCTOR. (CEC 250.122 (A)(8)).
- LOCATION AND ROUTING OF ALL EXPOSED EQUIPMENT, PIPING, DUCTWORK, AND CONDUIT SHALL BE APPROVED BY THE ARCHITECT PRIOR TO START OF ANY WORK.
- NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED ABOVE THE ELECTRICAL EQUIPMENT.
- ALL EXTERIOR RECEPTACLES SHALL BE WEATHERPROOF, GFCI TYPE.
- ALL RECEPTACLE DUPLEX OUTLET SHALL BE RECESSED OR FLUSH MOUNTED TO WALL. NO EXCEPTION.
- ALL ELECTRICAL OUTLETS LOCATED ABOVE COUNTERTOP INCLUDING BATHROOM COUNTERTOP SHALL BE GFCI DUPLEX OUTLET. GFCI OUTLET SHALL BE SELF-TEST, SELF-DIAGNOSTIC TYPE HUBBELL AUTODIAGN SERIES OR EQUAL.
- ALL THE BRANCH CIRCUITS SHALL BE (120/4°C - 2#12CU+1#12CU) G. UNLESS OTHERWISE NOTED.
- ALL EXTERIOR ELECTRICAL DISCONNECT AND ELECTRICAL EQUIPMENT SHALL BE WEATHER PROOF (WP) AND NEMA 3R RATED.
- REFER TO ARCHITECTURAL PLAN FOR RECEPTACLE HEIGHT AND LOCATION PRIOR TO ROUGH IN.
- ALL DEDICATED RECEPTACLE OUTLET SHALL HAVE SEPARATE CIRCUIT.
- ALL RECEPTACLE SHALL BE HOSPITAL GRADE TYPE.
- ALL RECEPTACLE TO COMPLY PER CEC 250.118 AND 250.122.
- ALL 120V, 15 AND 20 AMPERE REEPTACLE SHALL BE TEMPER RESISTANCE AS PER CEC 406.12.

REFERENCE NOTES

- PROVIDE 240V/30A/3PH OUTLET FOR DRYER. COORDINATE PLUGS CONFIGURATION AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH IN.
- PROVIDE 120V OUTLET FOR WASHER, 3Ø AFF.
- JUNCTION BOX FOR EXTERIOR SIGNAGE BOARD. COORDINATE EXACT LOCATION WITH ARCHITECT AND THE SIGN INSTALLER PRIOR TO ROUGH IN. SIGNAGE SHOULD BE CONTROLLED THROUGH TIMECLOCK.
- PROVIDE 180V/1PH POWER FOR MIDMARK 255 LED PROCEDURE LIGHT. EC TO VERIFY EXACT REQUIREMENT WITH MANUFACTURER PRIOR TO ROUGH IN.
- EXTERIOR LIGHTS TO BE CONTROLLED THROUGH TIMECLOCK.
- PROVIDE 120V/1PH POWER FOR HEAT LAMP. EC TO VERIFY EXACT REQUIREMENT WITH MANUFACTURER PRIOR TO ROUGH IN.
- ALL SIGNAGE AND EXTERIOR LIGHTS SHALL BE ROUTED THROUGH CONTACTORS OR RELAYS FOR TIMECLOCK CONTROL. REFER TO DETAIL S.E.1.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123126 INC.
REVIEWED FOR: FLS ACS
DATE: 4/9/2025

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YOLO COUNTY VETERINARY CLINIC
2640 EAST GIBSON ROAD

BB24-008
Reviewed for
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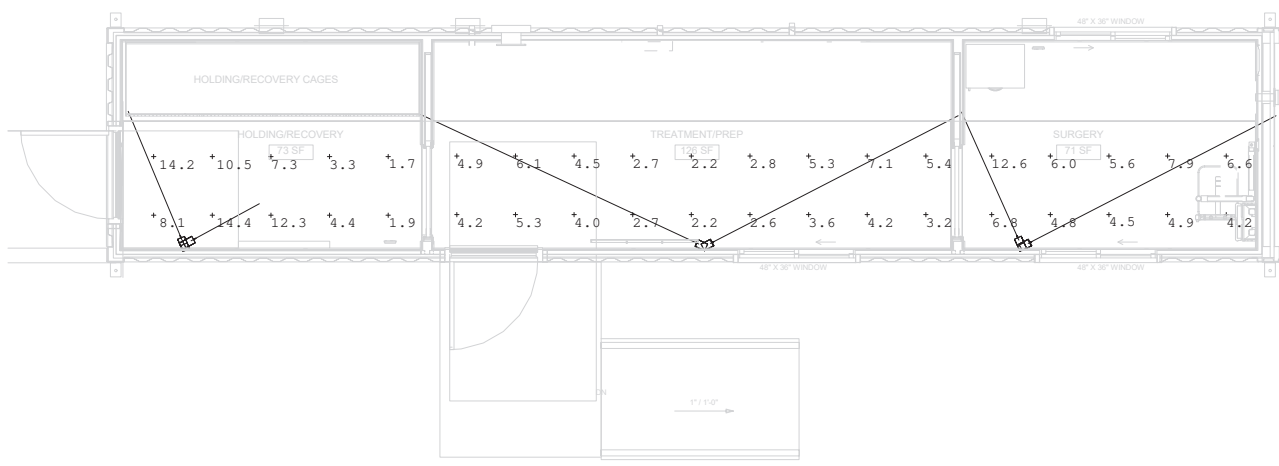
ELECTRICAL POWER PLAN

DATE:	01/18/25
SCALE:	AS NOTED
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SHEET:	E 1.1

ALL WORK SHALL BE ACCORDING TO THE LATEST EDITIONS OF THE CALIFORNIA MECHANICAL, PLUMBING AND ELECTRICAL CODES, UNLESS OTHERWISE SPECIFIED. THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES. THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES. THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES.

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
HOLDING_Workplane	Fc	illuminance	7.81	14.4	1.7	4.59	8.47
SURGERY_Workplane	Fc	illuminance	6.39	12.6	4.2	1.52	3.00
TREATMENT_Workplane	Fc	illuminance	4.06	7.1	2.2	1.85	3.23



1 PHOTOMETRIC EGRESS PATH PLAN
SCALE: 1/2" = 1'-0"

REVISIONS: BY: _____
 IDENTIFICATION STAMP
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 APP: 02-123126 INC.
 REVIEWED FOR: _____
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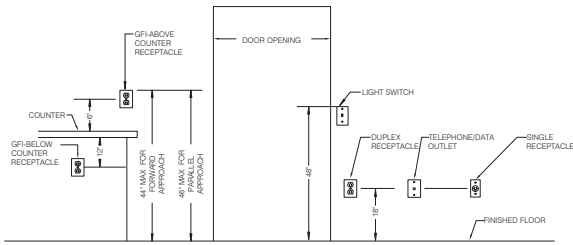


YOLO COUNTY VETERINARY CLINIC
 2640 EAST GIBSON ROAD

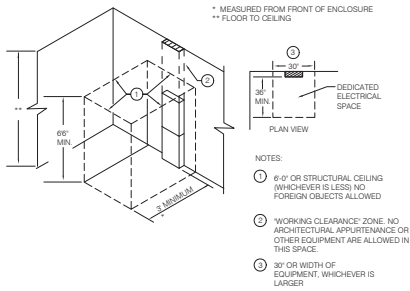
BB24-0608
 Reviewed for
 Code Compliance
 Approved: _____

PHOTOMETRIC EGRESS PATH PLAN

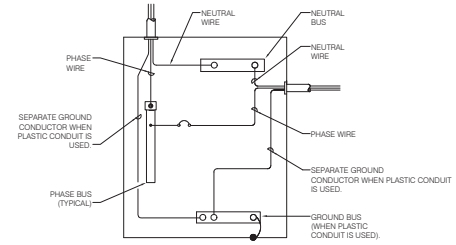
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APPROVED:	DB
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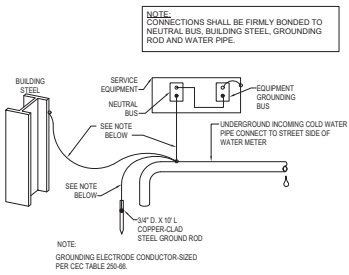
1 MOUNTING HEIGHT DETAIL
SCALE: NTS



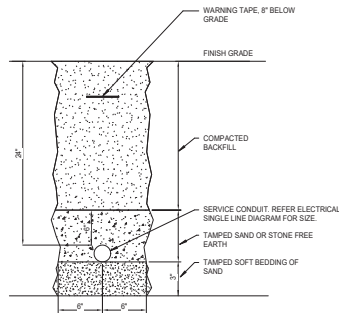
2 PANEL CLEARANCE DETAIL
SCALE: NTS



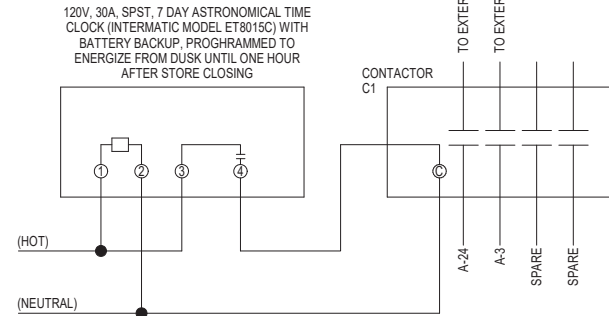
3 TYPICAL ELECTRICAL PANEL DETAIL
SCALE: NTS



4 GROUNDING SYSTEM DETAIL
SCALE: NTS



5 UNDERGROUND CONDUIT INSTALLATION DETAIL
SCALE: NTS



6 EXTERIOR SIGNAGE - LIGHTING CONTROLS
SCALE: NTS

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APP: 02-123126 INC.	REVIEWED FOR:
88	FLS
ACS	DATE: 4/9/2025

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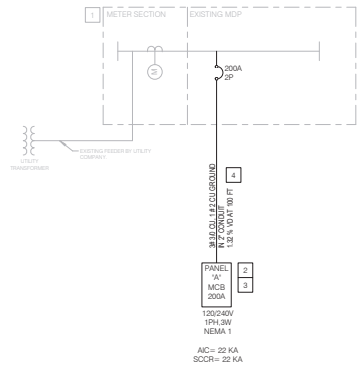
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ELECTRICAL DETAILS

DATE:	01/18/25
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 APP: 02-123126 INC.
 REVIEWED FOR: ACS
 DATE: 4/9/2025



GENERAL NOTES:

- ASSUMED WORST CASE AVAILABLE FAULT CURRENT FROM UTILITY COMPANY IS: 22,000 A.
- ALL EQUIPMENT BUSSING AND GROUNDING ELECTRODE SHALL BE COPPER AND ALL WIRES SHALL BE COPPER, THWN / THHN UNLESS NOTED OTHERWISE.
- THE MAIN SWITCHBOARD AND PANEL BOARDS SHALL BE BY ONE MANUFACTURER ONLY.
- ALL FUSES SHALL BE PROVIDED WITH REJECTION TYPE FUSE HOLDER.
- ALL ELECTRICAL EQUIPMENT SHALL BE FULLY RATED FOR THE AVAILABLE FAULT CURRENT.
- ALL CIRCUIT BREAKER SHALL BE LABELED TO CLEARLY INDICATE AREA BEING SERVED.
- ALL PANEL WILL BE REGULAR (80% RATED) RATED PANEL.
- ALL CIRCUIT BREAKER SHALL BE LABELED TO CLEARLY INDICATE AREA BEING SERVED.
- UNDERGROUND CONDUIT SHALL BE MINIMUM OF PVC SCHEDULE 40. REFER TO 2019 CEC TABLE 300.5 FOR THE MINIMUM COVER REQUIREMENTS OF DIRECT BURIAL CABLE.
- ALL METAL PIPING & STRUCTURES INCLUDING GAS PIPING THAT IS LIKELY TO BE ENERGIZED SHALL BE BONDED TO THE SERVICE GROUNDING POINT AS DESCRIBED IN CEC SECTION 250.104. FIELD VERIFY & PROVIDE BONDING JUMPERS AS REQUIRED.
- ALL TERMINATIONS AND CIRCUIT BREAKERS SHALL BE RATED FOR 75 DEGREES CENTIGRADE.
- ALL ELECTRICAL EQUIPMENT, PANELS, FEEDERS, ETC. ARE NEW UNLESS NOTED OTHERWISE.
- ALL THE ELECTRICAL SERVICES AND REQUIREMENTS ARE SUBJECT TO THE APPROVAL BY THE UTILITY COMPANY AND THE DEPARTMENT OF BUILDING AND SAFETY. VERIFY EXACT REQUIREMENTS PRIOR TO ROUGH-INS.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH UTILITY SERVICE PLANNER FOR THE PRIMARY ELECTRICAL SERVICE PRIOR TO ANY WORK.
- FEEDER LENGTH IS FOR CALCULATION ONLY NOT FOR BIDDING PURPOSES.
- THE MAIN SERVICE SHALL BE TESTED BY A THIRD PARTY NRTL TESTING LABORATORY AND SHALL BE CERTIFIED FOR SERVICE GROUND FAULT PROTECTION. THE MAIN SERVICE SHALL NOT BE ENERGIZED PRIOR TO BUILDING INSPECTORS' RECEIPT OF THE THIRD PARTY TESTING REPORT.
- UNLESS LISTED OTHERWISE, THE AMPACITY OF 800V OR LESS CONDUCTORS SHALL BE BASED ON THE TERMINALS NOT TO EXCEED 87°C (149°F) FOR CONDUCTOR SIZE 14 THROUGH 1 AWG OR 75°C (167°F) FOR CONDUCTOR SIZES OVER 1 AWG.
- THE CONTRACTOR SHALL REFER TO ALL THE ELECTRICAL CONTRACT DOCUMENTS, NOTES, DETAILS, SCHEDULES, RISERS, OTHER DISCIPLINE CONTRACT DOCUMENTS FOR A COMPLETE SCOPE OF WORK.
- EC TO COORDINATE WITH UTILITY COMPANY FOR NEW SERVICE.
- COORDINATE WITH MANUFACTURER FOR THE EXACT REQUIREMENTS PRIOR TO BID AND START OF WORK.

1 SINGLE LINE DIAGRAM
 SCALE: NTS

REFERENCE NOTES

- HALFTONE INDICATES EXISTING WORK. EXISTING WORK SHOWN HERE IS ONLY FOR REFERENCE. REFER AS BUILT OF SHELL BUILDING FOR MORE INFORMATION.
- ALL CIRCUIT BREAKER IN THIS PANEL SHALL BE FULLY RATED AND UL LISTED FOR AN INTERRUPTING CURRENT OF MINIMUM 22,000 A AND PANEL SHALL BE BRACED FOR MINIMUM 22,000 A.
- PROVIDE A SURGE PROTECTIVE DEVICE (SPD) AT THE MAIN SERVICE PANEL. THE SPD MAY BE INTEGRAL TO OR IMMEDIATELY ADJACENT TO THE SERVICE EQUIPMENT, AND MUST BE TYPE 2 SPD. (CEC 230.87)(A) TO (C).
- EC TO CHECK LENGTH OF WIRE FROM EXISTING MDP TO THE NEW PANEL. NOTIFY ENGINEER IF DISTANCE IS MORE THAN INDICATED. EC TO UPSIZE WIRE TO OVERCOME VOLTAGE DROP IF NEEDED.

Branch Panel: A												
Location: SURGERY			Volts: 120/240V SINGLE			A.I.C. Rating: SEE SINGLE LINE DIAGRAM						
Supply From: EXISTING MDP			Phases: 1			Main Type: MCB						
Mounting: SURFACE MOUNTED			Wires: 3			Mains Rating: 200 A						
Enclosure: NEMA 1						MCB Rating: 200 A						
Notes:												
CKT	Circuit Description	Wire Size	Breaker	Note	A	B	Note	Breaker	Wire Size	Circuit Description	CKT	
1	PROCEDURE LIGHT	1-#12, 1-#12, 1-#12	20 A/1		81 VA	180 VA			20 A/1	1-#12, 1-#12, 1-#12	REC HOLDING CAGES 1	2
3	LTG INTERIOR AND.	1-#12, 1-#12, 1-#12	20 A/1			274 VA	720 VA		20 A/1	1-#12, 1-#12, 1-#12	REC TREATMENT 1	4
5	REC REFRIGERATOR	1-#12, 1-#12, 1-#12	20 A/1	G	1000 VA	900 VA			20 A/1	1-#12, 1-#12, 1-#12	REC TREATMENT 2	6
7	DRYER	2-#10, 1-#10, 1-#10	30 A/2	G	2500 VA	540 VA			20 A/1	1-#12, 1-#12, 1-#12	REC TREATMENT 3	8
8	DRYER	2-#10, 1-#10, 1-#10	30 A/2	G	2500 VA	540 VA			20 A/1	1-#12, 1-#12, 1-#12	REC TREATMENT 3	8
11	WASHER	1-#12, 1-#12, 1-#12	20 A/1	G		1200 VA	360 VA		20 A/1	1-#12, 1-#12, 1-#12	REC SURGERY 1	12
12	IS-1,2,3	1-#12, 1-#12, 1-#12	20 A/1	H	28 VA	540 VA			20 A/1	1-#12, 1-#12, 1-#12	REC HOLDING 2	14
15	AH-1A	2-#12, 1-#12	20 A/2	H	120 VA	720 VA			20 A/1	1-#12, 1-#12, 1-#12	REC SURGERY 2	16
17	AH-1A	2-#12, 1-#12	20 A/2	H	120 VA	500 VA			20 A/1	1-#12, 1-#12, 1-#12	REC TREATMENT 4	18
18	AH-1B	2-#12, 1-#12	20 A/2	H	120 VA	500 VA			20 A/1	1-#12, 1-#12, 1-#12	REC HEAT LAMP 1	20
21	AH-1B	2-#12, 1-#12	20 A/2	H	120 VA	500 VA			20 A/1	1-#12, 1-#12, 1-#12	REC HEAT LAMP 2	22
23	AH-1C	2-#12, 1-#12	20 A/2	H	120 VA	1200 VA			20 A/1	1-#10, 1-#10, 1-#10	REC SIGNAGE	24
25	HP-1	2-#10, 1-#10	25 A/2	H		2542 VA	--		30 A/2	--	REC EXTERIOR	26
27	HP-1	2-#10, 1-#10	25 A/2	H		2542 VA	--		30 A/2	--	SPACE	28
29	HP-1	2-#10, 1-#10	25 A/2	H		2542 VA	--		30 A/2	--	SPACE	30
31	HP-1	2-#10, 1-#10	25 A/2	H		2542 VA	--		30 A/2	--	SPACE	32
33	EW-1	2-#6, 1-#10	50 A/2	G	4000 VA	--			30 A/2	--	SPACE	34
35	SPARE	--	20 A/1			0 VA	--		30 A/2	--	SPACE	36
37	FACP	1-#12, 1-#12, 1-#12	20 A/1		180 VA	--			30 A/2	--	SPACE	38
39	TIMELOCK	1-#10, 1-#10, 1-#10	30 A/1			100 VA	0 VA		30 A/2	--	SPACE	40
41	SMOKE DETECTOR CIRCUIT	1-#12, 1-#12, 1-#12	20 A/1		180 VA	0 VA			30 A/2	--	SPD	42
Total Load:					14390 VA	15016 VA						
Total Amper:					120 A	125 A						
Legend: O CPD FEATURES: A. AFCI BREAKER B. LSI G. COMBO GFCI-AFCI BREAKER D. RED LOCK-ON E. LOCK-OFF F. L.S.I. G. GFCI BREAKER H. HACR I. SHUNT-TRIP												
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals								
LIGHTING LOAD	455 VA	125.00%	569 VA	Total Conn. Load:	29400 VA							
RECEPTACLE LOAD	8500 VA	100.00%	8500 VA	Total Est. Demand:	25919 VA							
EQUIPMENT LOAD	6000 VA	100.00%	6000 VA	Total Conn.:	123 A							
HVAC LOAD	5831 VA	100.00%	5831 VA	Total Est. Demand:	123 A							
WATER HEATING	8000 VA	100.00%	8000 VA									

WIRE IDENTIFICATION	
ELECTRICAL OUTLET, APPLIANCE, LIGHTING, EQUIPMENT	
1P - 1#P, 1#N, 1#G 2P - 2#P, 1#N, 1#G 3P - 3#P, 1#N, 1#G	
WHERE: P= HOT/PHASE WIRE, N= NEUTRAL WIRE, G= GROUND WIRE	
HVAC AND PLUMBING EQUIPMENT	
1P - 1#P, 1#N, 1#G 2P - 2#P, 1#G 3P - 3#P, 1#G	
WHERE: P= HOT/PHASE WIRE, N= NEUTRAL WIRE, G= GROUND WIRE	

LIGHT FIXTURE SCHEDULE						
TYPE	DESCRIPTION	COUNT	TOTAL VA	VOLTAGE	MTG	MANUFACTURER/REMARK
L1	2X2 LED FLAT LIGHT	4	45 VA	120V	RECESSED	PATRIOT LIGHTING4200L-5000K-120V
EL1	EXTERIOR LIGHT	2	35 VA	120V	WALL	RAB LIGHTNGT X34S
EM1	BUG EYE	3	3.15 VA	120V	SURFACE	LITHONIA- ELM4L
EX1	EXIT SIGN	2	4.5	120V	SURFACE	BEST LIGHTINGCLPU-MVOLT

- GENERAL NOTES:**
- ALL FINISH/TRIM TYPE(S) FOR LIGHT FIXTURE(S) TO BE COORDINATED WITH ARCHITECT PRIOR TO ORDERING.
 - FOR LED FIXTURES REQUIRING REMOTE DRIVERS, THE REMOTE DRIVER MUST BE LOCATED IN AN ACCESSIBLE, VENTILATED LOCATION.
 - COORDINATE AND VERIFY WITH THE OWNER PRIOR TO ORDERING.
 - RECESSED MOUNTED FIXTURES SHALL BE IC RATED AND AIR TIGHT RATED.
 - ALL FIXTURE SHALL BE UL LISTED AND/OR ETL LISTED.
 - EMERGENCY LIGHTING SHALL HAVE BATTERY PACKS MINIMUM OF 90-MINUTES.
 - COORDINATE ALL LOCATIONS WITH ARCHITECT.
 - ALL LAMPS SHALL BE HIGH EFFICACY ACCORDING TO TITLE 24 REQUIREMENTS.
 - FOR CEILING AREAS WITH INSULATION WHERE RECESSED LIGHT CANS ARE SHOWN, PROVIDE AT-RATED FIXTURES ONLY AND INSULATION CONTACT WITH IC-RATING.
 - ALL LIGHT FIXTURES TO BE POSITIVELY ATTACHED TO SUSPENDED CEILING GRID ABOVE.
 - LIGHT FIXTURES LESS THAN 10 POUNDS, PROVIDE ONE #12 GAUGE WIRE (MAY BE SLACK).
 - LIGHT FIXTURES 11-55 POUNDS, PROVIDE TWO #12 GAUGE WIRES (MAY BE SLACK).
 - LIGHT FIXTURE OVER 55 POUNDS, SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE WITHOUT USING THE SUSPENDED CEILING SYSTEM FOR DIRECT SUPPORT.
 - ALL PENDANT LIGHT FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING #9 GAUGE WIRE.

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YOLO COUNTY VETERINARY CLINIC
 2640 EAST GIBSON ROAD

ELECTRICAL SINGLE LINE DIAGRAM PANEL SCHEDULE

DATE: 01/18/25
 SCALE: AS NOTED
 DRAWN: DB
 CHECKED: DB
 APPROVED: DB
 FILE NAME:
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E6.1

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD					NRC-PRF-E	
Nonresidential Performance Compliance Method					(Page 1 of 16)	
Project Name: Koret Vet. Clinic (2024.1126) Envelope + Lighting					Date Prepared: 2024-12-02	
A. GENERAL INFORMATION						
1	Project Name	Koret Vet. Clinic (2024.1126) Envelope + Lighting				
2	Run Title	Title 24 Analysis				
3	Project Location	2640 East Gibson Rd.				
4	City	Woodland	5	Standards Version	Compliance 2022	
6	Zip code	95776	7	Compliance Software (version)	EnergyPro 9.3	
8	Climate Zone	32	9	Building Orientation (deg)	180	
10	Building Type(s)	• Nonresidential		11	Weather File	SACRAMENTO_INTL_STYF20.gow
12	Project Scope	• New envelope and lighting		13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft ²)	320	15	Total # of holes/inlets/roofs	0	
16	Total Unconditioned Floor Area (ft ²)	0	17	Fuel Type	Natural gas	
18	Nonresidential Conditioned Floor Area	320	19	Total # of Stories (Habitable Above Grade)	1	
20	Residential Conditioned Floor Area	0				

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000
 Schema Version: rev 20220601 Report Generated: 2024-12-02 17:45:12
 Compliance ID: EnergyPro-2729-1224-0097

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD					NRC-PRF-E	
Nonresidential Performance Compliance Method					(Page 2 of 16)	
B. PROJECT SUMMARY						
Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.						
Building Components Complying via Performance			Building Components Complying Prescriptively			
Envelope (See Table G)	Nonresidential	Performance	Solar Thermal Water Heating (See Table I)	<input checked="" type="checkbox"/>	Performance	The following building components are either applicable to prescriptive compliance and shall be documented on the NRC Form based within the scope of the permit application (i.e. compliance will not be shown on the NRC-PRF-E).
	MultiFam	Not Included		<input checked="" type="checkbox"/>	Not Included	
Mechanical (See Table H)	Nonresidential	Not Included	Covered Process: Commercial Kitchens (See Table J)	<input checked="" type="checkbox"/>	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(a)
	MultiFam	Not Included		<input checked="" type="checkbox"/>	Not Included	NRC-LTI-E is required
Domestic Hot Water (See Table I)	Nonresidential	Not Included	Covered Process: Laboratory Exhaust (See Table J)	<input checked="" type="checkbox"/>	Performance	Sign Lighting 140.8 & 170.2(e)
	MultiFam	Not Included		<input checked="" type="checkbox"/>	Not Included	NRC-LTS-E is required
Lighting (Indoor Conditioned, see Table K)	Nonresidential	Performance	Photovoltaics (see Table F)	<input checked="" type="checkbox"/>	Performance	Building Components Complying with Mandatory Measures Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRC Form (if applicable, i.e. compliance will not be shown on the NRC-PRF-E).
	MultiFam	Not Included		<input checked="" type="checkbox"/>	Not Included	NRC-ESC-E is required
			Battery (See Table F)	<input checked="" type="checkbox"/>	Performance	Commissioning 120.8
				<input checked="" type="checkbox"/>	Not Included	Solar and Battery 110.10
				<input checked="" type="checkbox"/>	Not Included	NRC-SAB-E is required

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD					NRC-PRF-E	
Nonresidential Performance Compliance Method					(Page 3 of 16)	
C1. COMPLIANCE SUMMARY						
COMPLIES!						
			Time Dependent Valuation (TDV)		Source Energy Use	
			Efficiency (kBtu/ft ² - yr)	Total (kBtu/ft ² - yr)	Total (kBtu/ft ² - yr)	
Standard Design			531.55	531.55	66.33	
Proposed Design			495.71	495.71	66.19	
Compliance Margin			35.84	35.84	0.14	
			Pass	Pass	Pass	
<p><i>Efficiency measures include improvements like a better building envelope and more efficient equipment</i></p> <p><i>Compliance Totals include efficiency, photovoltaics and batteries</i></p> <p><i>New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded</i></p> <p><i>Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded</i></p>						

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Information for Installers

\$18-103(b).L.B. Compliance
 builder/installers shall provide copies of the completed documents for the building owner shall include certificate of Installation, Verification documents shall be in paper or electronic format applicable requirements of Section 10-103(a).

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-123126 INC.
 REVIEWED FOR
 89 FLS ACS
 DATE: 4/9/2025

\$18-103(b).C: Operating Information. At occupancy, builder/installers shall leave in the building, or with the owner, operating instructions for all applicable features, materials, components, and mechanical devices installed in the building. Operating information shall include instructions on how to operate the features, materials, components, and mechanical devices correctly and efficiently. For buildings or tenant spaces that are not individually owned and operated, or are centrally operated, such information shall be provided to the person(s) responsible for operating the feature, material, component or mechanical device installed in the building. This operating information shall be in paper or electronic format.

\$18-103(b).D: Maintenance Information. At occupancy, builder/installers shall leave in the building, or with the owner, maintenance information for all features, materials, components, and manufactured devices that require routine maintenance for efficient operation. Required routine maintenance actions shall be clearly stated and incorporated on a readily accessible label. The label may be limited to identifying, by title and/or publication number, the operation and maintenance manual for that particular model and type of feature, material, component or manufactured device. For buildings or tenant spaces that are not individually owned and operated, or are centrally operated, such information shall be provided to the person(s) responsible for operating the feature, material, component or mechanical device installed in the building. This operating information shall be in paper or electronic format.

Installation and Acceptance forms can be completed or downloaded from appropriate links here: <https://energycode.com/nonresidentialforms>. Energycode uses the "Compliance ID" printed in the footer of the NRC-C-PRF-E to determine the required forms.

Please note that this report only states some of the more significant compliance requirements and criteria. It does not purport to state how those requirements can be met, nor what equipment to install. More detailed construction requirements can be found on indicated Installation (NRC-I) and Acceptance (NRC-A) forms. There are generally many installation options available; although most equipment must be California Certified. In addition, "acceptance" criteria must be understood prior to installation. For this reason, we recommend that affected contractors employ a California Certified Acceptance Test Technician for consultation prior to, during, and after installation. These technicians are searchable from links here: <https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-program>.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD					NRC-PRF-E	
Nonresidential Performance Compliance Method					(Page 4 of 16)	
C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)						
COMPLIES!						
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)			
Space Heating	84.05	84.52	-0.47			
Space Cooling	117.19	119.51	-2.32			
Indoor Fans	251.44	246.6	4.84			
Heat Rejection	0	0	0			
Pumps & Misc.	0	0	0			
Domestic Hot Water	0	0	0			
Indoor Lighting	78.87	35.08	43.79			
Flexibility	---	---	---			
EFFICIENCY COMPLIANCE TOTAL	531.55	495.71	35.84 (6.7%)			
Photovoltaics	---	---	---			
Batteries	---	---	---			
TOTAL COMPLIANCE	531.55	495.71	35.84 (6.7%)			
Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.						

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD					NRC-PRF-E	
Nonresidential Performance Compliance Method					(Page 5 of 16)	
C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS¹						
Non-Regulated Energy Component						
Receptacle	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)			
Process	111.93	111.93	---			
Other Ltg	74.03	74.03	---			
Process Motors	---	---	---			
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	713.91	681.87	32.04 (4.5%)			
Notes: This table is not used for Energy Code Compliance.						

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD					NRC-PRF-E	
Nonresidential Performance Compliance Method					(Page 6 of 16)	
C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual Source Energy Use, kBtu/ft² - yr)						
COMPLIES!						
Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)			
Space Heating	28.03	31.76	-3.73			
Space Cooling	5.48	5.64	-0.16			
Indoor Fans	26.39	25.93	0.46			
Heat Rejection	0	0	0			
Pumps & Misc.	0	0	0			
Domestic Hot Water	0	0	0			
Indoor Lighting	6.45	2.86	3.57			
Flexibility	---	---	---			
EFFICIENCY COMPLIANCE TOTAL	66.33	66.19	0.14 (0.2%)			
Photovoltaics	---	---	---			
Batteries	---	---	---			
TOTAL COMPLIANCE	66.33	66.19	0.14 (0.2%)			
Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.						

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD					NRC-PRF-E	
Nonresidential Performance Compliance Method					(Page 7 of 16)	
C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS¹						
Non-Regulated Energy Component						
Receptacle	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)			
Process	12.19	12.19	---			
Other Ltg	5.9	5.9	---			
Process Motors	---	---	---			
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	84.42	84.28	0.14 (0.2%)			
Notes: This table is not used for Energy Code Compliance.						
C6. SOURCE ENERGY USE INTENSITY (SEUI)						
	Standard Design (kBtu/ft ² - yr)	Proposed Design (kBtu/ft ² - yr)	Margin (kBtu/ft ² - yr)	Margin Percentage		
GROSS SEUI ²	111.15	109.88	1.27	1.14		
NET SEUI ³	111.15	109.88	1.27	1.14		
Notes: Gross SEUI is Energy Use Total (not including PV/Total Building Area). Net SEUI is Energy Use Total (including PV/Total Building Area).						
D1. EXCEPTIONAL CONDITIONS						
<ul style="list-style-type: none"> The proposed building claims credit for non-mandatory lighting control credits via Power Adjustment Factors (PAFs) as outlined in Standards Table 140.6-A. Review NRC-PRF-LTI DETAILS Table A to ensure that credit is not claimed for mandatory controls. The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylight Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (from NRC-LTI-02-E) for the requirements of section 140.6(i) Automatic Daylighting Controls in Secondary Daylight Zone is required. The building does not include service water heating. Verify that service water heating is not required and is not included in the design. The project has thermal zones with operable openings modeled without mechanical compliance selected. Compliance with Section 140.4(n) Mechanical System Shutoff should be considered. The proposed building includes spaces that are modeled with unknown HVAC systems. Verify that the spaces modeled with unknown HVAC systems are either part of core and shell analysis which will be permitted for mechanical compliance in the future, or the spaces have an existing HVAC system not modeled for compliance, or the compliance scope does not include mechanical. Project is claiming Exception 3 to Section 140.13(a). No PV system is required where the required PV system size is less than 100kW. PV/Battery Building Type has been modified from software defaults for one or more spaces. Review project's PV/Battery Building Type(s) with documentation author. Refer to Energy Code section 140.30 for Nonresidential or 170.2(g) for more information. 						
E4. ADDITIONAL REMARKS						
This table includes remarks made by the permit applicant to the Authority having Jurisdiction.						
Doors may have up to 24.9% glazing before they are considered "fenestration." Proposed wall stud size is not a choice in the CBECC-Com layers database. The closest available system is 4x4 is modeled.						

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD					NRC-PRF-E	
Nonresidential Performance Compliance Method					(Page 8 of 16)	
C7. ENERGY USE SUMMARY						
Energy Component	Standard Design Size (MWh)	Proposed Design Size (MWh)	Margin (MWh)	Standard Design Size (MWh)	Proposed Design Size (MWh)	Margin (MWh)
Space Heating	---	---	---	9.6	10.9	-1.3
Space Cooling	1	1.1	-0.1	---	---	---
Indoor Fans	2.9	2.8	0.1	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	---	---	---	---	---	---
Indoor Lighting	1	0.5	0.5	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	4.9	4.4	0.5	9.6	10.9	-1.3
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	4.9	4.4	0.5	9.6	10.9	-1.3
Receptacle	1.3	1.3	0	1.4	1.4	0
Process	1	1	0	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	7.2	6.7	0.5	11	12.3	-1.3

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD					NRC-PRF-E	
Nonresidential Performance Compliance Method					(Page 9 of 16)	
C8. ENERGY USE INTENSITY (EUI)						
	Standard Design (kBtu/ft ² - yr)	Proposed Design (kBtu/ft ² - yr)	Margin (kBtu/ft ² - yr)	Margin Percentage		
GROSS EUI ²	111.15	109.88	1.27	1.14		
NET EUI ³	111.15	109.88	1.27	1.14		
Notes: Gross EUI is Energy Use Total (not including PV/Total Building Area). Net EUI is Energy Use Total (including PV/Total Building Area).						
D1. EXCEPTIONAL CONDITIONS						
<ul style="list-style-type: none"> The proposed building claims credit for non-mandatory lighting control credits via Power Adjustment Factors (PAFs) as outlined in Standards Table 140.6-A. Review NRC-PRF-LTI DETAILS Table A to ensure that credit is not claimed for mandatory controls. The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylight Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (from NRC-LTI-02-E) for the requirements of section 140.6(i) Automatic Daylighting Controls in Secondary Daylight Zone is required. The building does not include service water heating. Verify that service water heating is not required and is not included in the design. The project has thermal zones with operable openings modeled without mechanical compliance selected. Compliance with Section 140.4(n) Mechanical System Shutoff should be considered. The proposed building includes spaces that are modeled with unknown HVAC systems. Verify that the spaces modeled with unknown HVAC systems are either part of core and shell analysis which will be permitted for mechanical compliance in the future, or the spaces have an existing HVAC system not modeled for compliance, or the compliance scope does not include mechanical. Project is claiming Exception 3 to Section 140.13(a). No PV system is required where the required PV system size is less than 100kW. PV/Battery Building Type has been modified from software defaults for one or more spaces. Review project's PV/Battery Building Type(s) with documentation author. Refer to Energy Code section 140.30 for Nonresidential or 170.2(g) for more information. 						
E4. ADDITIONAL REMARKS						
This table includes remarks made by the permit applicant to the Authority having Jurisdiction.						
Doors may have up to 24.9% glazing before they are considered "fenestration." Proposed wall stud size is not a choice in the CBECC-Com layers database. The closest available system is 4x4 is modeled.						

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 654 Oakland Avenue, Oakland, CA 94611

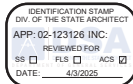
SOLANO COUNTY VETERINARY CLINIC 2024-1126
 2640 East Gibson Road

Reviewed for Code Compliance
Approved: CR

B24-089

California Building Energy Efficiency Certificates of Compliance
 Filed on the Plans pursuant to California Code of Regulations, Title 24, Part 1, Article 1, Section 10-103(a)2.A.

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 Project No.: 42224
 Sheet No.: **T24.1**
 Date: 12-2-2024
 Title 24 Energy Compliance



CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRC-PRF-E (Page 10 of 16)

Table with 4 columns: 01, 02, 03, 04. Headers: Oppose Surfaces & Orientation, Total Gross Surface Area (ft²), Total Fenestration Area (ft²), Window to Wall Ratio (%). Rows: North-Facing, East-Facing, South-Facing, West-Facing, Total, Roof.

Notes: North-Facing is oriented to within 45 degrees of true north, including 45° 00'00" east of north (NE), but excluding 45° 00'00" west of north (NW). East-Facing is oriented to within 45 degrees of true east, including 45° 00'00" south of east (SE), but excluding 45° 00'00" north of east (NE). South-Facing is oriented to within 45 degrees of true south, including 45° 00'00" west of south (SW), but excluding 45° 00'00" east of south (SE). West-Facing is oriented to within 45 degrees of true west, including 45° 00'00" north of west (NW), but excluding 45° 00'00" south of west (SW).

Table with 2 columns: 01, 02. Headers: Building Story Name, Air Barrier. Row: Core-Floor 1, No air barrier.

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRC-PRF-E (Page 11 of 16)

Table with 10 columns: 01-10. Headers: Surface Name, Construction Type, Area (ft²), Framing Type, Cavity R-Value, Continuous R-Value Interior/Exterior, Units, Value, Description of Assembly Layers, Status. Rows: Metal Roof w/Closed Cells, U-1 to 3.5 SFRC / 0.1625 FT, Sub On Grade.

Table with 4 columns: 01, 02, 03, 04. Headers: Assembly Name, Area (ft²), Overall U-Factor, Status. Row: Insulated Over-Dr.

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRC-PRF-E (Page 12 of 16)

Table with 9 columns: 01-09. Headers: Fenestration Assembly Name, Fenestration Type/Product/Name/Type, Certification Method, Assembly Method, Area (ft²), Overall U-Factor, Overall SHGC, Overall VT, Status. Row: Jeld-Wen Better Slider.

Notes: Newly-installed fenestration shall have a certified NFRC Label Certificate or use the CCC de-facto labels found in table 110.6-A and table 110.6-B. Center of Glass (COG) values are for the glass only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA and are used in the analysis.

Status: N - New, A - Altered, E - Existing

Table with 6 columns: 01-06. Headers: Occupancy Type, Conditioned Floor Area (ft²), Installed Lighting Power (Watts), Lighting Control Credits (Watts), Area Category Footcandle (Watts), Area Category Footcandle (Watts). Rows: All Other Space Types, Hospital - Exam/Treatment, Hospital - Operating Rm, Building Total.

See table 140.6-C for NFRC U-Factor unconditioned spaces. Lighting information for existing spaces modeled is not included in this table.

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRC-PRF-E (Page 13 of 16)

Table with 6 columns: 01-06. Headers: Name or Item Tag, Complete Luminaire Description, Watts per luminaire, How is Wattage determined, Total Number of Luminaires, Installed Watts. Row: 4200 Lumen Integrated LED Panel.

If lighting power densities were used in the compliance model, Building Departments will need to check prescriptive forms for Luminaire Schedule details.

Table with 9 columns: 01-09. Headers: Area Description, Primary Function Area, Type of Lighting Control, Power Adjustment Factor (PAF), Luminaire Item Tag, Watts per Luminaire, # of Luminaires, Lighting Control Credits (Watts), Control Credit (Watts). Rows: S-1, Holding/Recovery, S-2-Treatment, S-3-Surgery.

Table with 2 columns: 01, 02. Headers: Building Level Controls, Mandatory Demand Response 110.12(C). Row: NA.

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRC-PRF-E (Page 14 of 16)

Table with 9 columns: 01-09. Headers: Area Description, Area Category Primary Function Area, Area Controls 130.11(A) & 160.50(A), Multi-Level Controls 130.11(B) & 160.50(B), Shut-Off Controls 130.11(C) & 160.50(C), Primary Daylighting 140.50(A) & 160.50(D), Secondary Daylighting 140.50(B) & 160.50(E). Rows: Hospital - Exam/Treatment, Hospital - Operating Rm, Remainder.

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online.

Table with 2 columns: Building Component, Form/Title. Rows: Envelope, Envelope, Indoor Lighting, Indoor Lighting, Covered Process.

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Table with 2 columns: Building Component, Form/Title & System Name(s). Rows: Envelope, Indoor Lighting, Covered Process, Covered Process.

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRC-PRF-E (Page 15 of 16)

DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION. Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online.

There are no certificates of verification applicable to this project.

REMARKS: Doors may have up to 24 sq. ft. of glazing before they are considered "fenestration". Proposed wall stud size is not a choice in the CBCCC.com layers database. The closest available system R-value is modeled.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2024-12-02 17:45:12 Compliance ID: EnergyPro-2729-1224-0097

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRC-PRF-E (Page 16 of 16)

Documentation Author's Declaration Statement. I, Documentation Author Name: Steve K. Means, CEA, certify that this Certificate of Compliance documentation is accurate and complete.

Responsible Person's Declaration Statement. I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

Responsible Designer Name: Teresa Owens. Company: Clinic in A Can. Address: 9745 E 50th Street North. City/State/Zip: Wichita, KS 67226. Phone: (316) 262-0953. Title: Designer. Scope: Envelope.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2024-12-02 17:45:12 Compliance ID: EnergyPro-2729-1224-0097

Documentation Author: easyTitle24.com. Tel: (415) 259-4068 or (925) 671-4789. e-mail: customer.service@easytitle24.com. 654 Oakland Avenue, Oakland, CA. 94611

COUNTY VETERINARY CLINIC 2024-1126. 2646 East Gibson Road. 924-089. Reviewed for Code Compliance. Approved: CR.

California Building Energy Efficiency Certificates of Compliance. Filed on the Plans pursuant to California Code of Regulations, Title 24, Part 1, Article 1, Section 10-103(a)(2). Copyright 2024 by EasyTitle24.com.

Project No.: 42224. Sheet No.: T24.2. Date: 12-2-2024. Title 24 Energy Compliance.