PROJECT DATA

A.P.N.: 799-08-053 OCCUPANCY TYPE: A3 CONSTRUCTION TYPE: ∇B , NOT SPRINK. /1REMODEL AREA: APPROX. 504 S.F.

PROJECT DESCRIPTION

REMODEL EXISTING KITCHEN INCLUDING EXPANSION INTO ADJACENT STORAGE ROOM AND REPLACEMENT OF EXISTING HOOD AND KITCHEN EQUIPMENT WITH MODIFICATION OF UTILITIES AS REQUIRED.

GENERAL NOTES

- 1. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 2. ALL WORK TO BE DONE IN COMPLIANCE WITH 2022 C.B.C., C.M.C., C.P.C., C.F.C., C.E.C., AND ALL PERTINENT LOCAL, STATE AND FEDERAL CODES AND ORDINANCES.
- 3. THE ARCHITECT AND HIS CONSULTANTS DO NOT ASSUME ANY RESPONSIBILITY FOR THE METHOD AND/OR MANNER OF CONSTRUCTION NOR FOR ANY JOB SITE SAFETY DURING CONSTRUCTION
- 4. ALL FINISH MATERIALS, COLORS, TEXTURES, PATTERNS, ETC. TO BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
- 5. ALL NEW & EXISTING EXPOSED SURFACES NOT FACTORY FINISHED TO BE PAINTED WITH QUALITY COMMERCIAL GRADE PAINT (2 FINISH COATS) OVER PROPERLY PRIMED OR PREPARED SURFACE PER PAINT MANUFACTURER RECOMMENDATIONS. ALL PAINT IN KITCHENS TO BE WASHABLE SEMI-GLOSS.
- 6. ALL DOOR PUSH PLATES, PULL HANDLES, LOCKSETS, ETC. TO BE HANDICAP APPROVED AND MOUNTED +34"- 44". ALL LOCKSETS OR LATCHSETS TO HAVE HANDICAP APPROVED LEVER HANDLES SIMILAR TYPE TO EXISTING. VERIFY ALL HARDWARE FINISHES WITH OWNER. VERIFY (E) & MODIFY AS REQUIRED.
- 7. ALL NEW DOORS TO BE $1\frac{3}{4}$ " FLUSH SOLID CORE WOOD. FINISH COLOR AND MATERIAL TO MATCH EXISTING. DOOR HEIGHT TO BE 7'-0" U.N.O.
- 8. PROVIDE A 10" HT. STAINLESS STEEL KICK PLATE ON PUSH SIDE OF ALL KITCHEN DOORS.
- 9. ALL NEW GSM WORK TO BE 24 GA. MIN. DONE IN CONFORMANCE WITH APPROPRIATE SMACNA **RECOMMENDATIONS AND DETAILS.**
- 10. ALL NEW PENETRATIONS OF ROOF OR EXTERIOR WALL TO BE FLASHED AND/OR CAULKED AS APPROPRIATE TO PROVIDE WATER PROOF SEAL.
- 11. ALL AREAS DAMAGED BY DEMOLITION OR NEW CONSTRUCTION TO BE REPAIRED & FINISHED AS REQUIRED TO MATCH (E) ADJACENT SURFACES UNLESS SPECIFICALLY NOTED OTHERWISE.
- 12 PROVIDE A COMPLETE ANSUL FIRE PROTECTION SYSTEM AT HOOD BY SEPARATE PERMIT.

DRAWING INDEX

ARCHITECTURAL (DAVCO ASSOCIATES)

- A1 EXISTING FLOOR / SITE PLAN
- A2 (PROJECT AREA) EXISTING FLOOR / DEMO PLAN & EXISTING PARTIAL ROOF PLAN A3 (PROJECT AREA) NEW FLOOR / EQUIPMENT PLAN, CONCRETE WALK SECTION,
- EQUIPMENT SCHEDULE & FINISH SCHEDULE
- A4 (PROJECT AREA) NEW PLUMBING PLAN
- A5 NEW PARTIAL ATTIC PLAN, SECTION AT HOOD

1 CG1-CG4 CAL GREEN MANDATORY MEASURES CHECKLIST

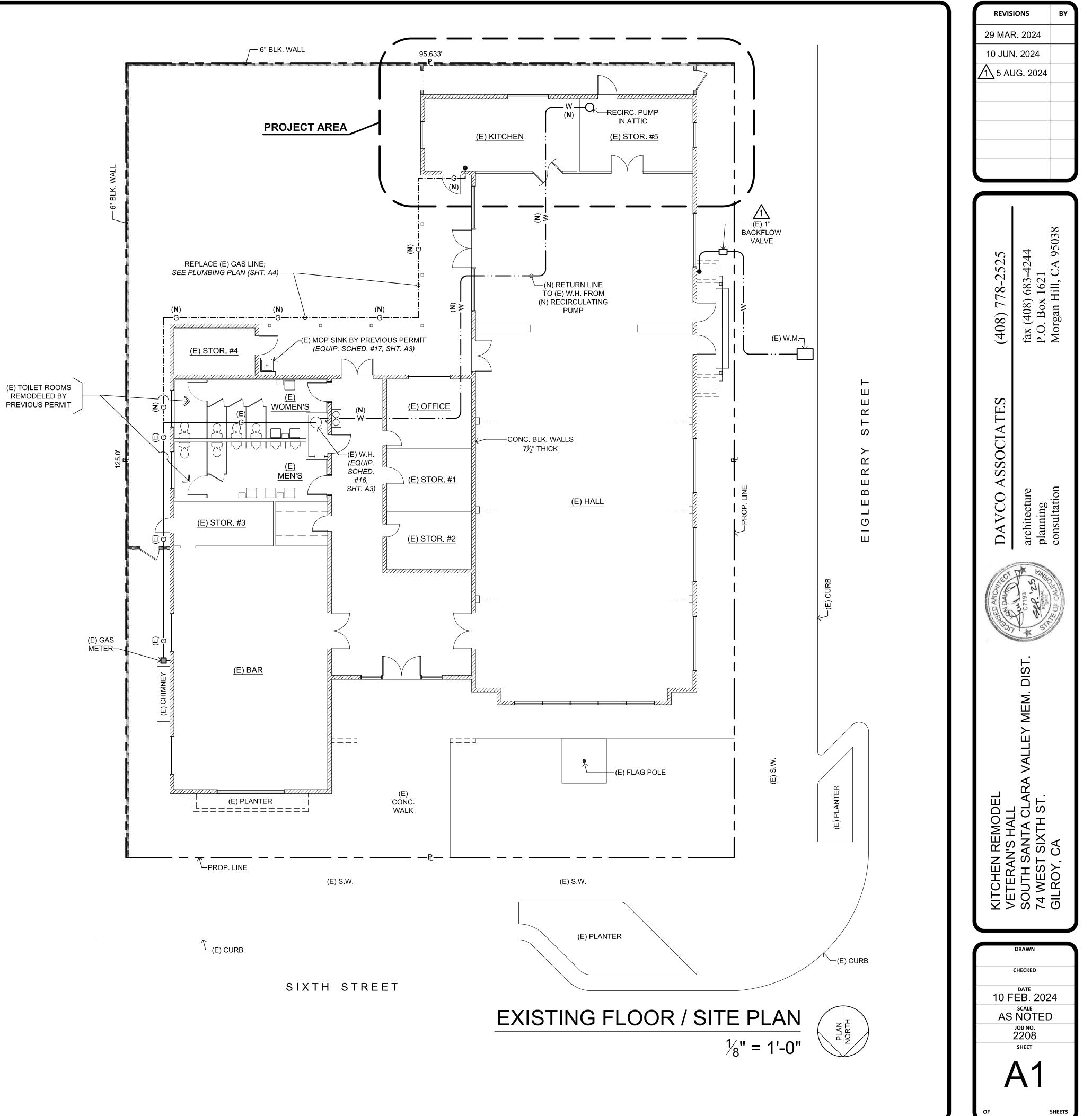
ELECTRICAL (CENTRAL PACIFIC ENGINEERING) E0.00 ELECTRICAL INFORMATION SHEET

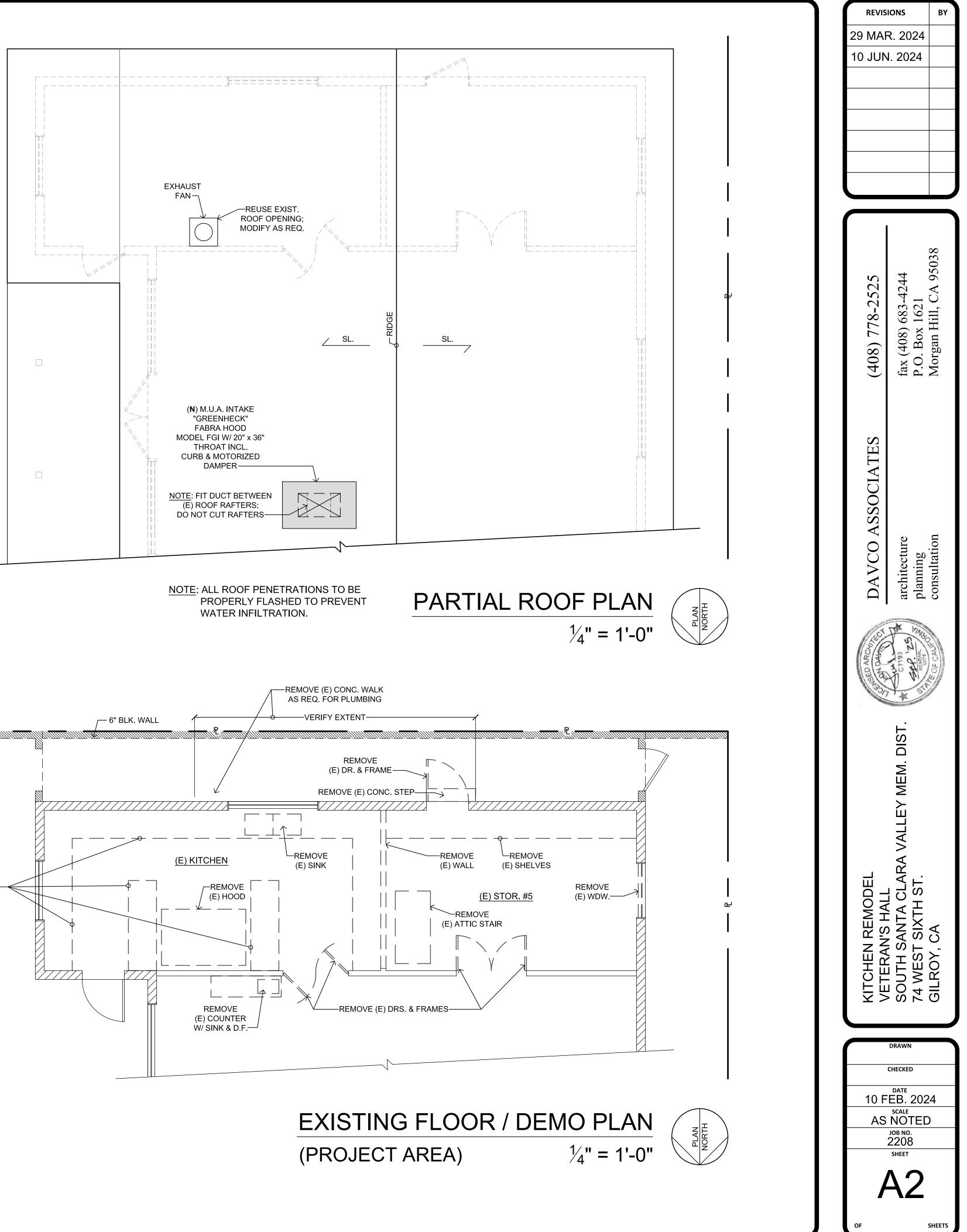
- E0.10 TITLE 24 INTERIOR
- E2.00 LIGHTING PLAN OVERALL
- E2.10 LIGHTING PLAN ENLARGED
- E3.00 POWER PLAN OVERALL
- E3.10 POWER PLAN ENLARGED
- E3.20 POWER PLAN ATTIC
- E5.00 ONE-LINE
- E5.10 PANEL SCHEDULES
- E7.00 ELECTRICAL SPECIFICATIONS
- HOOD (ECON AIR)
 - 1 HOOD PLAN & SECTION 2 EXHAUST FAN
 - 3 MAKE UP AIR UNIT
 - 4 ELECT. INFORMATION
 - 5 EXHAUST DUCT
 - 6 EXHAUST DUCT

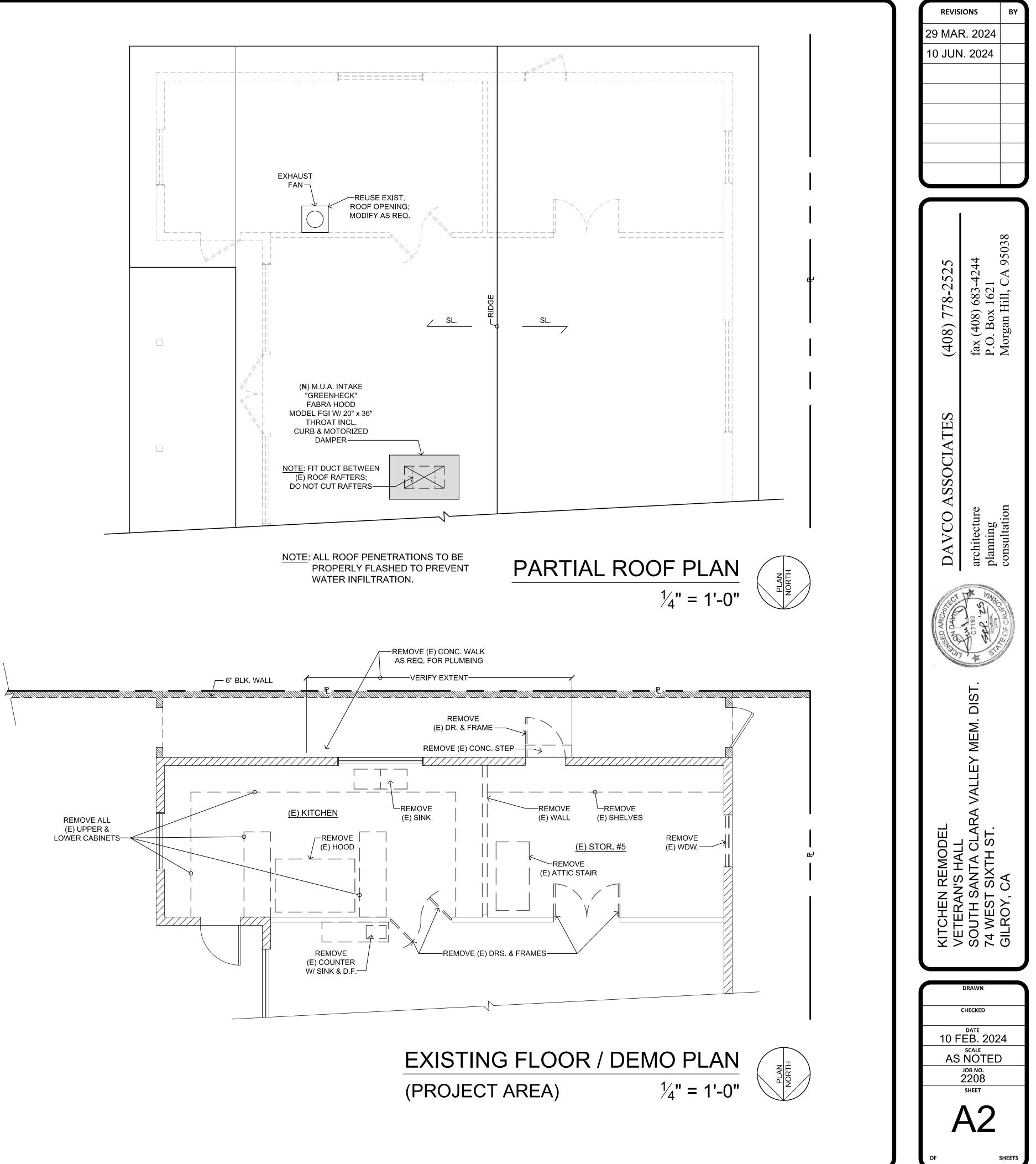
BID ALTERNATES

1. REPLACE TWO (E) WINDOWS IN KITCHEN W/ (N) MILGARD ALUMINUM FRAME LOCKABLE SLIDING

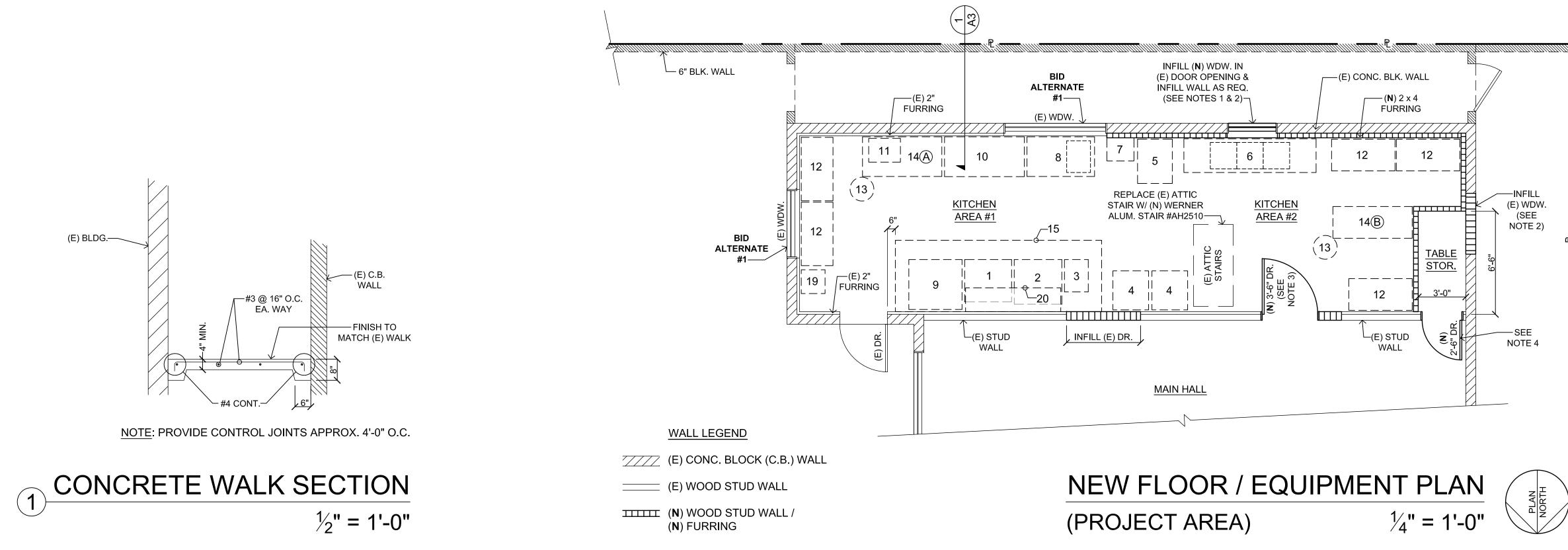
WINDOWS W/ TINTED DOUBLE GLAZING & INSECT SCREEN. 2. EPOXY FLOOR (TERA-LITE, DEX-O-TEX OR APPROVED EQUAL) IN LIEU OF QUARRY TILE.







EQUIF	PMENT SCHEDULE					
ITEM	DESCRIPTION	PLAN DIM. (WIDTH x DEPTH)	GAS / ELECT.	WATER	DRAIN	REMARKS
1	GARLAND GAS GRIDDLE	357⁄ ₁₆ " x 32"		-	-	WITH STAND ON CASTERS
2	EXISTING MONTAGUE 36" GAS RANGE	36" x 33¾"	120,000 BTU	-	-	
3	VULCAN VSP SERIES STOCKPOT RANGE	18" x 24½"	110,000 BTU	-	-	WITH STAND ON CASTERS
4	TRUE T-23-HC REFRIGERATOR	27" x 29½"	115 / 60 / 1 ¼ H.P. 2.2A	-	-	ON CASTERS
5	BEVERAGE-AIR TMF IHC FREEZER	26 ⁹ ⁄ ₃₂ " x 33 ⁹ ⁄ ₁₆ "	115 / 60 / 1 ½ H.P. 4.73A			ON CASTERS
6	REGENCY 3-COMP. SINK	100" x 25½"	-	H.W. & C.W.	DRAIN TO GREASE TRAP	
7	GSW HS-2017W HAND SINK	20½" x 17½"	-	H.W. & C.W.	DRAIN TO (E) SAN. SEWER	PROVIDE SOAP & TOWEL DISP. ADJACENT TO SINK
8	GSW SH2424IL FOOD PREP. SINK	51 ¹ ⁄ ₈ " x 30"	-	H.W. & C.W.	DRAIN TO FLR. SK.	
9	VULCAN VC4G SINGLE CONVECTION OVEN	40¼" x 37¾"	50,000 BTU	-	-	ON CASTERS
10	TRUE TUC-60-HC UNDER COUNTER REFRIG.	60¾" x 30½"	115 / 60 / 1 ¼ H.P. 4.0A	-	-	ON CASTERS
11	SOLWAVE #180MW1000SS MICROWAVE	20" x 18½"	120 / 60 / 1 1,000W 8.3A	-	-	PROVIDE S.S. SHELF; VERIFY TYPE W/ OWNER
12	REGENCY WIRE STORAGE CAGES	4'-0" x 2'-0"	-	-	-	LOCKABLE UNITS ON WHEELS
13	MOVABLE TRASH CONTAINERS				·	VERIFY TYPE WITH OWNER
14	STAINLESS STEEL TABLE WITH SHELF	(A) 5'-0" x 30" (B) 5'-0" x 24"	-	-	-	14B ON WHEELS
15	VENT HOOD	13'-0" x 4'-6"		-	-	
16	EXISTING WATER HEATER BRADFORD / WHITE M-2-XR7556BN	26" DIA.	76,000 BTU	EXISTING	EXISTING	INSTALL (N) RECIRCULATING PUMP ON LINE TO KITCHEN; PROVIDE SHUT OFF SWITCH IN KITCHEN. NOT SHOWN BELOW; SEE SITE PLAN (SHT. A1)
17	EXISTING MOP SINK				·	INSTALLED BY PREVIOUS PERMIT. NOT SHOWN BELOW; SEE SITE PLAN (SHT. A1)
18	GREASE TRAP				\rightarrow	NOT SHOWN BELOW; SEE PLUMBING PLAN (SHT. A4)
19	ULINE STOR. CBNT. H-6316 CLEANING SUPPLIES	18" x 18"	-	-	-	LOCKABLE
20	S.S. SHELF	6'-0" x 18"	-	-	-	



FINISH SCHEDULE (VERIFY ALL COLORS W/ TENANT)											
				WAI	LS						
ROOM	FLOOR 26	BASE	NORTH	EAST	SOUTH	WEST	WNSCT.	CEILING	REMARKS		
KITCHEN AREA <u>#1</u>	QUARRY TILE	QUARRY TILE	SEE REMARKS FRP FULL HEIGHT (7) -				-	SMOOTH GYP. BD. PAINTED	S.S ON NORTH WALL; FULL HT. UNDER HOOD		
KITCHEN AREA <u>#2</u>	QUARRY TILE	QUARRY TILE	Ff	RP FULL	НЕІБНТ 🔿	•	-	SMOOTH GYP. BD. PAINTED			
TABLE STORAGE	QUARRY TILE	QUARRY TILE	FRP FULL HEIGHT				-	SMOOTH GYP. BD. PAINTED			
MAIN HALL	(E)	(E)	(E)	(E)	PAINT COMPLETE WALL	(E)	-	(E)			
VE SLI	 SMOOTH FINISH WITH SEMI-GLOSS ENAMEL. VERIFY COLOR W/ TENANT & SUBMIT SAMPLE TO HEALTH DEPT. FOR APPROVAL. ALL TILE IN WALK AREAS TO BE SLIP RESISTANT. 										
5 AL	L GYP. BD. BEHIND	FRP, TILE OF	R SIMILAR MA	TERIAL	TO BE MOIS	TURE RE	ESISTANT.				
	OVIDE ALUM. RAM ADJACENT FLOOR		NS MEETING	A.D.A. R	EQ. AT ALL I	DOORS 1		ATE VARIABLE	HEIGHTS		

VERIFY COLOR & FINISH WITH TENANT

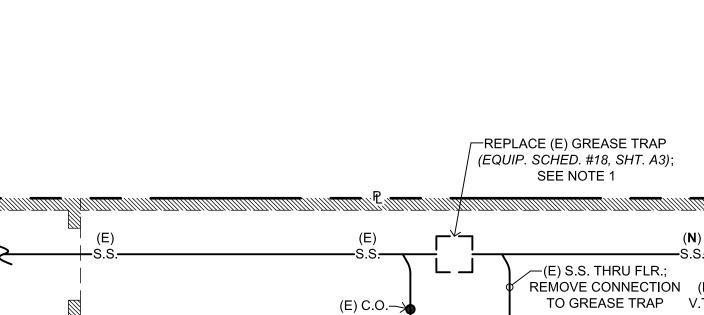
NOTES:

- 1. (N) WINDOW WIDTH TO FIT (E) DOOR OPENING & HEIGHT TO MATCH (E) WINDOWS. WINDOW TO BE MILGARD ALUM. FRAME LOCKABLE SLIDING WINDOW W/ TINTED DOUBLE GLAZING & INSECT SCREEN.
- 2. WINDOW INFILL TO BE CONC. BLK. TO MATCH (E) WALL.
- SIDE OF DOOR.

3. DOOR HARDWARE: (3) 5" HT. x 0.180" THK. FULL MORTISE, BALL BEARING HINGES; SCHLAGE ALX SERIES (FUNCTION 70 CLASSROOM LOCK); KICK DOWN DOOR STOP (HA SHI OR APPROVED EQUAL); 36" HT. STAIN. STL. PUSH PLATE ON PUSH

4. DOOR HARDWARE: (3) $4\frac{1}{2}$ " HT. x 0.134" THK. FULL MORTISE PLAIN HINGES; SCHLAGE ALX SERIES (FUNCTION 70 CLASSROOM LOCK). 5. REPLACE CONCRETE WALK AS REQUIRED; SEE $\begin{pmatrix} 1 \\ A3 \end{pmatrix}$

REVISIONS	ВҮ
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└_(E) V.T.R

(E) SK. & D.F.

REMOVED-

VERIFY LOCATION

OF (E) S.S.

<u>KITCHEN</u>

AREA #1

(N)

· — · —\· — G —#

REPLACE (E) GAS LINE UNDER EAVE W/

(**N**) 1½" PIPE; SEE SITE PLAN (SHT. A1)

FOR EXTENT—

IN THIS AREA-

- NOTES:
- 2. ON (E) HOT WATER SUPPLY PROVIDE REQ. PIPING & RECIRCULATION PUMP IN ATTIC FROM (E) WATER HEATER.

- HEATER LOCATION.
- 3. DRAIN FROM SINK THRU (E) DOOR OPENING AND DROP BELOW GRADE OUTSIDE WALL.
- 4. CONNECT (E) WATER LINE IN ATTIC TO (N) M.U.A. UNIT SHOWN ON SHEET A5.

- 6. VERIFY REQ. FOR (N) M.U.A. UNIT IN ATTIC (SEE A5) AND PROVIDE WATER LINE AS REQUIRED.

—(N)

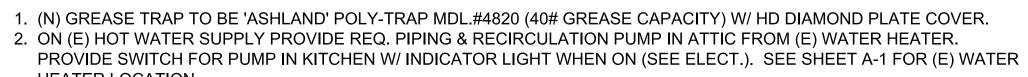
SINK

TO (E) S.S. HAND

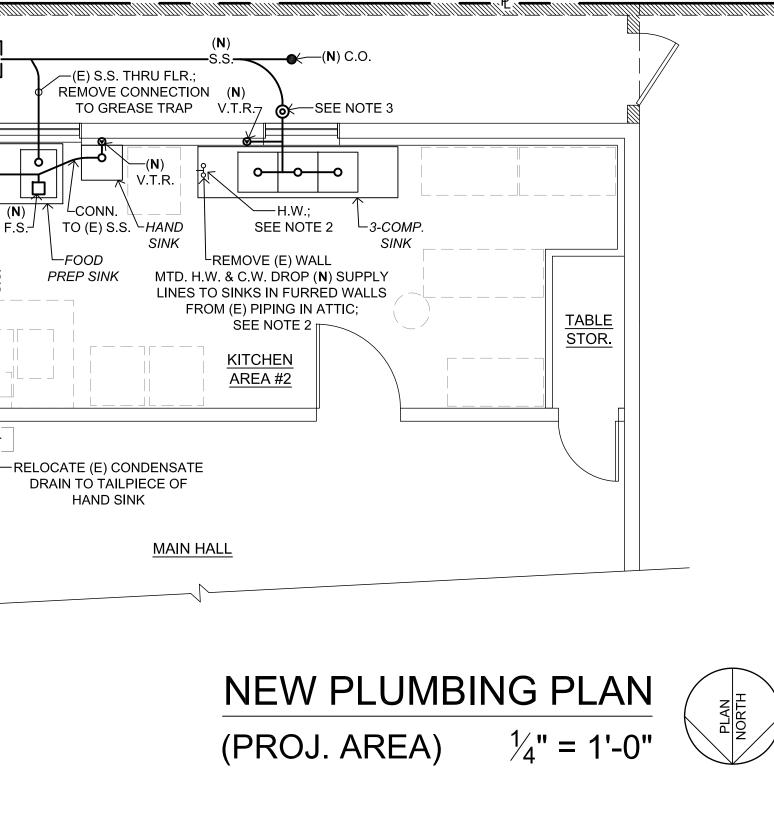
HAND SINK

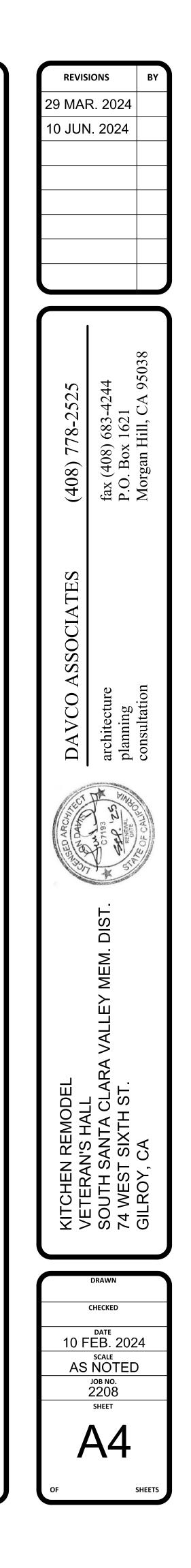
-FOOD

PREP SINK



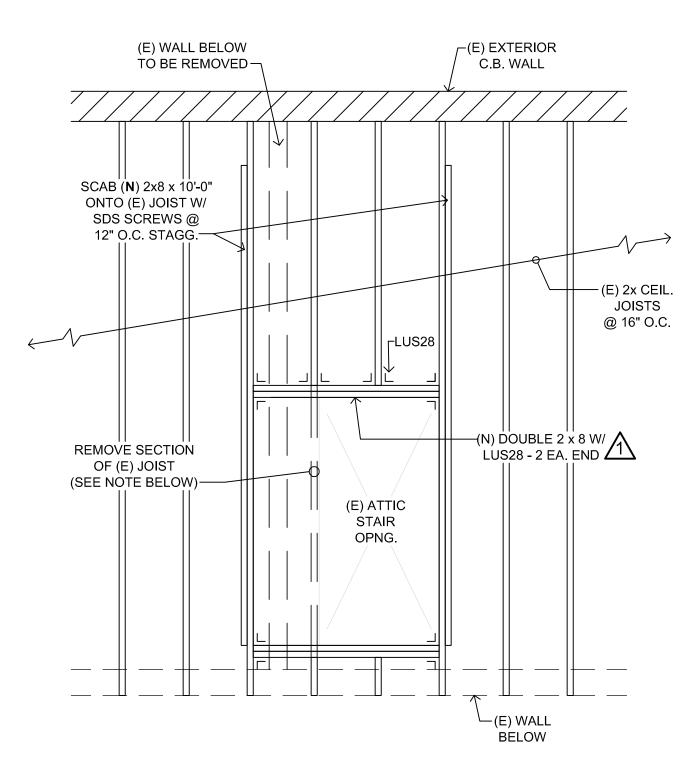
5. CONNECT CONDENSATE DRAIN FROM (N) M.U.A. UNIT IN ATTIC TO (E) CONDENSATE DRAIN FROM (E) HVAC UNIT.

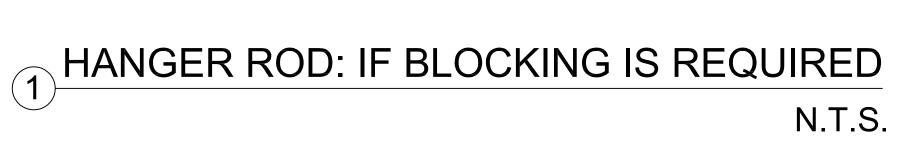


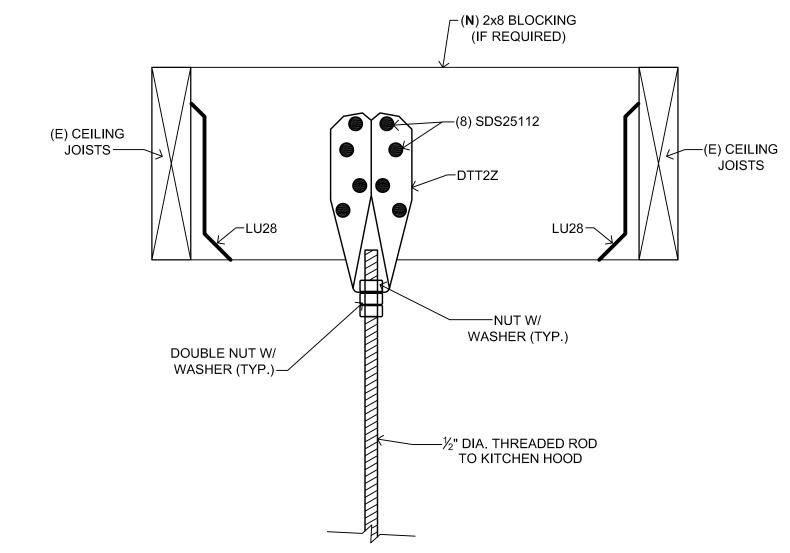


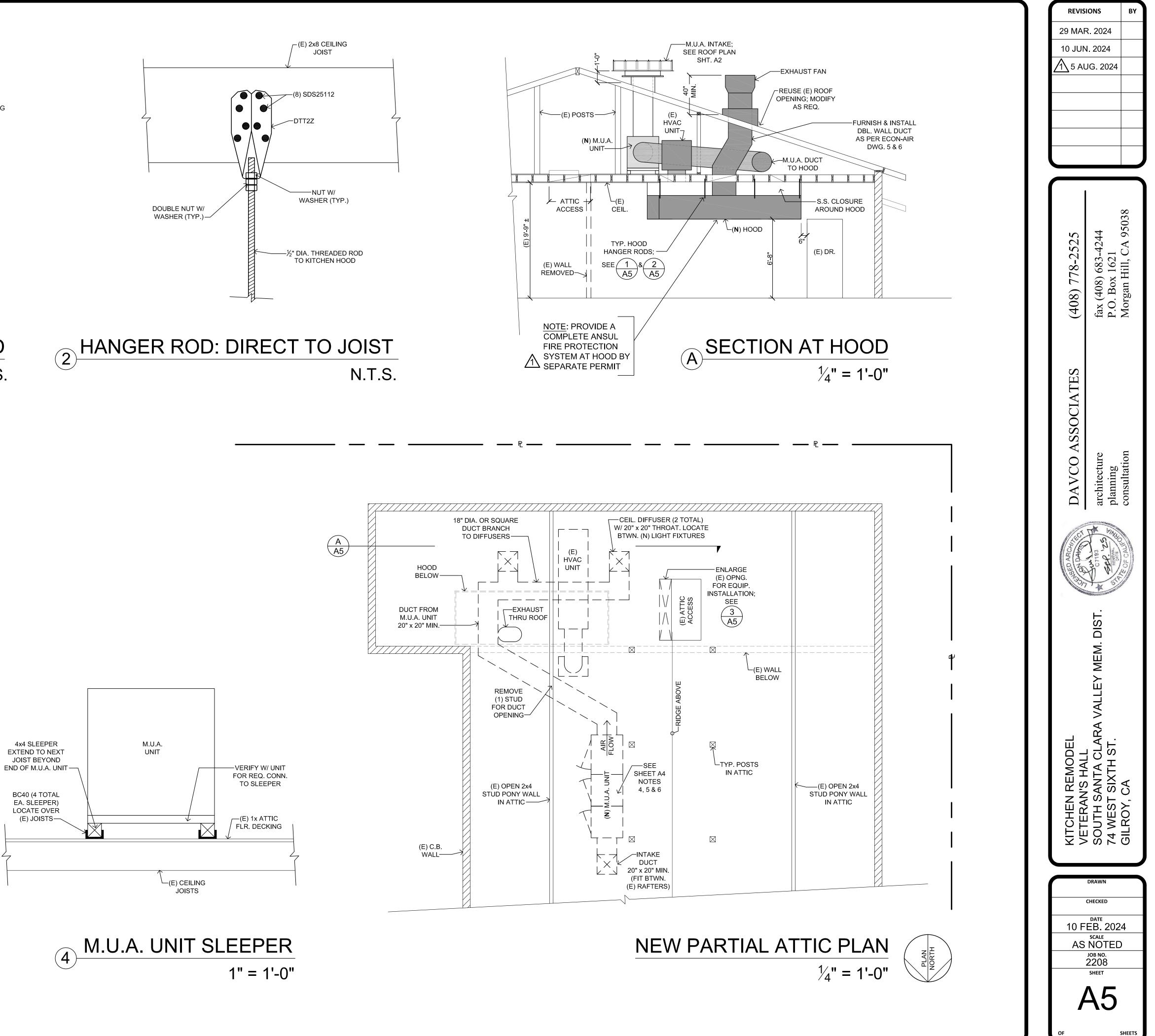
TEMPORARY ENLARGEMENT OF ATTIC ACCESS OPENING 3 ¹/₂" = 1'-0"

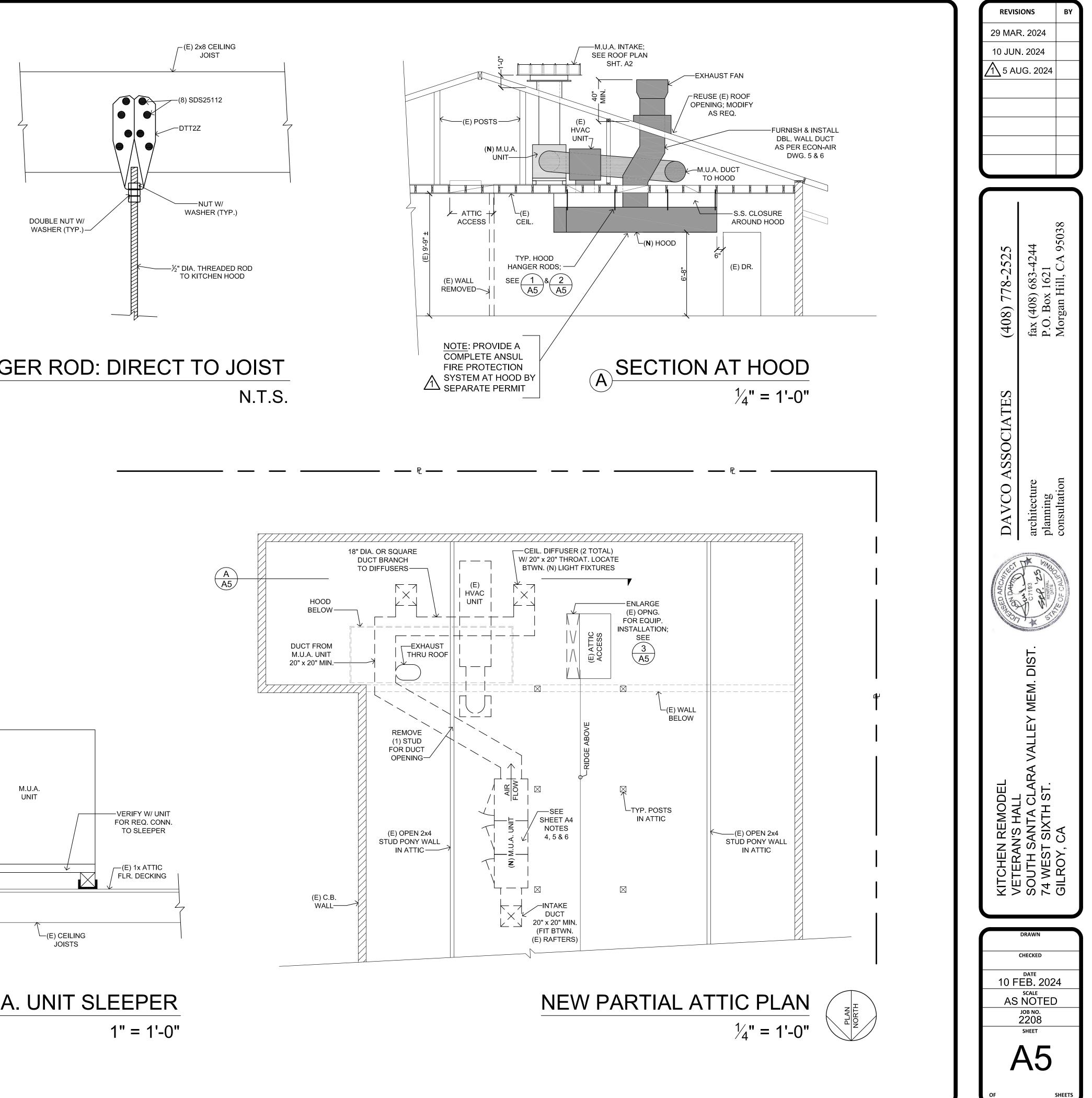
<u>NOTE</u>: AFTER M.U.A. UNIT INSTALLATION, REFRAME OPENING AS REQUIRED FOR (\mathbf{N}) ATTIC STAIR.













California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE **NONRESIDENTIAL MANDATORY MEASURES, SHEET 1** (July 2024 Supplement)

	CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL	X	PARTY	SECTION 5.106 SIT 5.106.1 STORM WATER PO OF LAND. Newly construct larger common plan of deve activities through one or mo
	301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in			5.106.1.1 Local ordi ordinance.
	the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.			5.106.1.2 Best Mana implementing an effect
	301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the			1. Soil loss Bi but are not a. Sche b. Pres c. Drair
	permitted work. A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.			d. Mulc e. Eros f. Prote g. Perir
	301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:			h. Sedi i. Stab j. Wind
	Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 <i>et seq.</i> for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.			k. Othe 2. Good house and wastes are not limit a. Dewa b. Materi c. Build
	301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.			d. Man e. Cont f. Vehic
	301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC) 301.5 HEALTH FACILITIES. (see GBSC)			g Spill h. Othe
	SECTION 302 MIXED OCCUPANCY BUILDINGS	Ř		5.106.2 STORMWATER PC LAND. Comply with all lawf
	302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.			More of land, or (2) disturb length Note: Projects that (1) disturbed by the second se
	 SECTION 303 PHASED PROJECTS 303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new 			larger common plan of deve applicable National Pollutan Associated with Constructio the Lahontan Regional Wate
	 303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in 			The NPDES permits require (pre-project hydrology) with permits emphasize runoff re through nonstructural control
	Section 301.3 non-residential additions and alterations. ABBREVIATION DEFINITIONS:			Stormwater volume that can practices and be approved b
	HCDDepartment of Housing and Community DevelopmentBSCCalifornia Building Standards CommissionDSA-SSDivision of the State Architect, Structural Safety			Refer to the current applicate www.waterboards.ca.gov/cc should be given during the in
	OSHPD Office of Statewide Health Planning and Development LR Low Rise HR High Rise			5.106.4 BICYCLE PARKING specified in Section 103, con Architect pursuant to Section
	AA Additions and Alterations N New CHAPTER 5	×		5.106.4.1 Bicycle pa applicable local ordina
	NONRESIDENTIAL MANDATORY MEASURES			5.106.4.1.1 Sh to generate vis
	DIVISION 5.1 PLANNING AND DESIGN			entrance, readi added, with a n Exceptio
	SECTION 5.101 GENERAL 5.101.1 SCOPE The provisions of this chapter outline planning, design and development methods that include environmentally		-	5.106.4.1.2 Lot tenant-occupar
	responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.			spaces with a r
1	SECTION 5.102 DEFINITIONS			5105413 -00
	5.102.1 DEFINITIONS			provide secure minimum of on
				provide secure
	 5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference) CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire. ELECTRIC VEHICLE (EV). [BSC-CG, HCD] An automotive-type vehicle for on-road use, such as passenger 			provide secure minimum of on 5.106.4.1.4 For
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DEVELOPMENT	RESPON. PARTY	TABLE 5.106.5.3.1			
projects and additions which disturb less than one acre of land, and are not part of a ment or sale, shall prevent the pollution of storm water runoff from the construction of the following measures:		TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF RE CAPABLE S		NUMBER OF EVCS (E CAPABLE SPACES PROVIDED WITH EVSE) ²
. Comply with a lawfully enacted storm water management and/or erosion control		0-9	0		0
nt Practices (BMPs). Prevent the loss of soil through wind or water erosion by ombination of erosion and sediment control and good housekeeping BMPs.		26-50	2		0
at should be considered for implementation as appropriate for each project include, to, the following:		51-75	13		3
construction activity during dry weather, when possible. on of natural features, vegetation, soil, and buffers around surface waters.		76-100	17		4
wales or lined ditches to control stormwater flow. r hydroseeding to stabilize disturbed soils. ntrol to protect slopes.		101-150 151-200	25 35		6 9
of storm drain inlets (gravel bags or catch basin inserts). sediment control (perimeter silt fence, fiber rolls). rap or sediment basin to retain sediment on site. construction exits.		201 AND OVER 1. Calculation for spaces shall be	20 percent of parking sp	aces1	25 percent of EV capab spaces ¹
on control. oss BMPs acceptable to the enforcing agency. ng BMPs to manage construction equipment, materials, non-stormwater discharges hould be considered for implementation as appropriate for each project include, but the following:		 The number of required EVCS total number of required EV cap At least one Level 2 EVSE sh 5.106.5.3.2 Electric vehicle charging 	S (EV capable spaces p able spaces shown in co all be provided.	ovided with EVSI blumn 2.	E) in column 3 count toward
activities. Idling and waste management. aterials stockpile management.	-	vehicle supply equipment (EVSE) to required by Table 5.106.5.3.1 shall b 5.106.5.3.2.1. At least one Level 2 E	e provided with Level 2		
ent of washout areas (concrete, paints, stucco, etc.). vehicle/equipment fueling to contractor's staging area. d equipment cleaning performed off site. ention and control. sekeeping BMPs acceptable to the enforcing agency.		One EV charger with multiple connect the electrical load capacity required supplied to the EV charger.			
TION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF nacted stormwater discharge regulations for projects that (1) disturb one acre or		The installation of each DCFC EV capable spaces without EVSE by t service panel or subpanel.			
han one acre of land but are part of a larger common plan of development sale. e acre or more of land, or (2) disturb less than one acre of land but are part of the ent or sale must comply with the post-construction requirements detailed in the		number of required E	V capable spaces without	ut EVSE or EVCS	rmitted to reduce the minim S with Level 2 EVSE by five e service panel or subpanel
charge Elimination System (NPDES) General permit for Stormwater Discharges d Land Disturbance Activities issued by the State Water Resources Control Board or ality Control Board (for projects in the Lake Tahoe Hydrologic Unit).					rging receptacles shall be ble spaces without EVSE in
tconstruction runoff (post-project hydrology) to match the preconstruction runoff installation of postconstruction stormwater management measures. The NPDES ion through on-site stormwater use, interception, evapotranspiration, and infiltration uch as Low Impact Development (LID) practices, and conversation design measures. be addressed using nonstructural practices is required to be captured in structural		5.106.5.3.3 Use of automatic load ALMS shall be permitted for specified in Section 5.106.5.3.1 for each EVCS EVSE controlled by an ALM	· EVCS. When ALMS is may be reduced when s IS shall deliver a minimu	installed, the requ erviced by an EV m 30 amperes to	SE controlled by an ALMS. an EV when charging one
e enforcing agency. ermits on the State Water Resources Control Board website at: uctionstormwater. Consideration to the stormwater runoff management measures design process for appropriate integration into site development.		and shall deliver a minimum 5.106.5.3.4 Accessible EV When EVSE is installed, ac	n 3.3 kW while simultane CS. cessible EVSC shall be	ously charging m	ultiple EVs.
or buildings within the authority of California Building Standards Commission as with Section 5.106.4.1. For buildings within the authority of the Division of the State		Code, Chapter 11B, Section Note: For EVCS signs, refe Vehicle Signs and Pavemer	r to Caltrans Traffic Ope		ective 13-01 (Zero Emissio
. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the whichever is stricter.		5.106.5.3.4 Accessible electric v EVCS shall be provided in accorda	ance with the California	Building Code, Cl	hapter 11B, Section 11B-22
rm bicycle parking. If the new project or an addition or alteration is anticipated ffic, provide permanently anchored bicycle racks within 200 feet of the visitors' ble to passers-by, for 5% of new visitor motorized vehicle parking spaces being im of one two-bike capacity rack.		5.106.5.3.5 Electric vehicle charges by signage or pavement markings Emission Vehicle Signs and Paver Power allocation method shall inclu-	in compliance with Caltr nent Markings) or its suc	ans Traffic Opera	
Additions or alterations which add nine or less visitor vehicular parking spaces. Im bicycle parking. For new buildings with tenant spaces that have 10 or more rovide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking		 Use any kVA combination At least one Level 2 E 	ation of EV capable space VSE shall be provided.		evel 2, Level 2 or DCFC EV
num of one bicycle parking facility. itions or alterations that add 10 or more tenant-occupant vehicular parking spaces, cle parking for 5 percent of the tenant vehicular parking spaces being added, with a ycle parking facility.		5.106.5.3.6 Electric vehicle chargin method may be used as an alternativ associated Table 5.106.5.3.1. Use T total number of actual parking space	ve to the requirements ir able 5.106.5.3.6 to dete	Section 5.106.5.	.3.1, Section 5.106.5.3.2 ar
shell buildings in phased projects provide secure bicycle parking for 5 percent of the ccupant vehicular parking spaces with a minimum of one bicycle parking facility.		TABLE 5.106.5.3.6	MINIMUM		
ble bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall the street and shall meet one of the following:		PARKING SPACES	TOTAL kVA @ 6.6 kVA		ION OF EV CAPABLE,3,4 R LEVEL 2, LEVEL 2, 1, 2 OR DCFC
ockable enclosures with permanently anchored racks for bicycles; bicycle rooms with permanently anchored racks; or permanently anchored bicycle lockers.		0-9 10-25	26.4		0 26.4
nal information on recommended bicycle accommodations may be obtained from Area Bicycle Advocates.		26-50	52.8 85.8		52.8 85.8
[DSA-SS] For public schools and community colleges, comply with Sections		76-100	112.2		112.2
bicycle parking. Provide permanently anchored bicycle racks conveniently		101-150 151-200	165 231		165 231
mum of four two-bike capacity racks per new building. cycle parking. Provide permanent, secure bicycle parking conveniently accessed to staff bicycle parking spaces per new building. Acceptable bicycle parking facilities rom the street or staff parking area and shall meet one of the following:		201 AND OVER	20 percent of actual parking spaces X 6.6		ired kVA = P × .20 × 6.6 Parking spaces in facility
ockable enclosures with permanently anchored racks for bicycles; bicycle rooms with permanently anchored racks; or permanently anchored bicycle lockers.		1. Level 2 EVSE @ 6.6 kVA minimu 2. At least one Level 2 EVSE shall I 3. Maximum allowed kVA to be utiliz	im. be provided. zed for EV capable spac		
<i>V</i>) charging. [N] [BSC-CG] Construction to provide electric vehicle infrastructure and ing shall comply with Section 5.106.5.3.1 EV capable spaces, Section 5.106.5.3.2 ons and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 Electric vehicle ower allocation method and associated Table 5.106.5.3.6 and shall be provided in the <i>California Building Code</i> and the <i>California Electrical Code</i> .	io V	 4. If EV capable spaces are utilized spaces. .106.5.4 Additions or alterations to exit r parking facilities being modified by one When EVSE is installed, accessible EVCS shapter 11B, Section 11B-228.3. 	sting buildings or parl of the following shall co	king facilities [A] mply with Section]. [BSC-CG] Existing buildin 5.106.5.4.1 or 5.106.5.4.2
ase-by-case basis where the local enforcing agency has determined compliance with tion is not feasible based upon one of the following conditions: here there is no local utility power supply here the local utility is unable to supply adequate power.		 When the scope of construction v part of a parking facility addition or a When a new photovoltaic system When additions or alterations to e 	alteration. i is installed covering exi existing buildings are tric	sting parking spa gered pursuant to	ices. o code Section 301.3 and t
here there is evidence suitable to the local enforcement agency substantiating the sal utility infrastructure design requirements, directly related to the implementation of ction 5.106.5.3, may adversely impact the construction cost of the project. spaces accessible only by automated mechanical car parking systems are not ed to comply with this code section.		scope of work includes an increase Exceptions: 1. On a case-by-case basis where t not feasible based upon one of the a Where there is no local util	he local enforcing agence following conditions:	·	
apable spaces. [N] EV capable spaces shall be provided in accordance with Table ne following requirements:		a. Where there is no local util b. Where the local utility is un c. Where there is evidence su local utility infrastructure desi 5.106.5.3, may adversely imp	able to supply adequate uitable to the local enfor- gn requirements, directly	cement agency su related to the im	
ys complying with the California Electrical Code and no less that 1-inch (25 mm) r shall be provided and shall originate at a service panel or a subpanel(s) serving a, and shall terminate in close proximity to the proposed location of the EV capable a suitable listed cabinet, box, enclosure or equivalent. A common raceway may be		 d. Where demonstrated as in 2. Remote parking facilities that do 3. Parking area lighting upgrades w 4. Emergency repairs, including but 	npracticable excluding lo not have access to the b here no trenching is par	cal utility service building service pa t of the scope of v	anel. work.
e serve multiple EV charging spaces. ce panel or subpanel (s) shall be provided with panel space and electrical load y for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV		repairs, etc.			
e space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS. ctrical system and any on-site distribution transformers shall have sufficient capacity ly full rated amperage at each EV capable space. vice panel or subpanel circuit directory shall identify the reserved overcurrent ve devices space(s) as "EV CAPABLE". The raceway termination location shall be		5.106.5.4.1 Existing buildings or I [A]. When EV capable infrastructure facility or building undergoes an add electric vehicle charging in compliar Section 5.106.5.3.6 and associated added or altered.	e does not exist at an ex dition or alteration listed nce with either Section 5	isting parking fac in Section 5.106. 106.5.3 and ass	ility or building, and the par 5.4, construction shall inclu ociated Table 5.106.5.3.1,
space served by electric vehicle supply equipment or designed as a future EV shall count as at least one standard automobile parking space only for the purpose of ny applicable minimum parking space requirements established by an enforcement		5.106.5.4.2 Existing buildings or [A]. When EV capable infrastructure facility or building is undergoing an include electric vehicle charging in c	e is available at an existi addition or alteration list compliance with either S	ng parking facility ed in Section 5.10 ection 5.106.5.3	/ or building, and the parkin 06.5.4, construction shall and associated Table
cle Code Section 22511.2 for further details.		5.106.5.3.1, or Section 5.106.5.3.6 allocated power and infrastructure f the area being added or altered exc infrastructure, provide additional EV	and associated Table 5. or the total number of ac seeds the existing EV ca	106.5.3.6 utilizing stual parking space pable capacity, a	g the existing EV capable ces being added or altered. llocated power and

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AND AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS.

		Y = YES N/A = NOT APPLICABLE RESPON. PARTY = RESPONSIBLE PARTY (ie: AR OWNER, CONTRACTOR, INSP	
¶∕A	RESPON. PARTY		
R		5.106.5.5 Electric vehicle (EV) charging: medium-duty and heavy-duty. [N] [BSG-CG] Construct with Section 5.106.5.5.1 to facilitate future installation of electric vehicle supply equipment (EVSE). C warehouses, grocery stores and retail stores, office buildings, and manufacturing facilities with plann loading spaces shall also comply with Section 5.106.5.5.1 for future installation of medium- and heavy	onstruction for ed off-street
		Exceptions: 1. On a case-by-case basis where the local enforcing agency has determined compliance with is not feasible based upon one of the following conditions: a Where there is no local utility power supply	this section

where there is no local utility power supply b. Where the local utility is unable to supply adequate power.

- c. Where there is evidence suitable to the local enforcing agency substantiating that additional
- local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California Electrical Code and as follows:

5.106.5.5.1 Electric vehicle charging readiness requirements for warehouses, grocery stores, office buildings, and manufacturing facilities and retail stores with planned off-street loading spaces. [N]

In order to avoid future demolition when adding EV supply and distribution equipment, spare raceway(s) or busway(s) and adequate capacity for transformer(s), service panel(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

1. The transformer, main service equipment and subpanels shall meet the minimum power requirement in Table 5.106.5.5.1 to accommodate the dedicated branch circuits for the future installation of EVSE.

2. The construction documents shall indicate one or more location(s) convenient to the planned off-street loading space(s) reserved for medium- and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s), as shown in Table 5.106.5.5.1.

3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium- and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipment for medium- and heavy-duty vehicles.

4. The raceway(s) or busway(s) shall be of sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.5.1.

TABLE 5.106.5.5.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]

BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
	10,000 to 90,000	1 or 2	200
Grocery		3 or Greater	400
	Greater than 90,000	1 or Greater	400
	10,000 to 50,000	1 or 2	200
Manufacturing Facilities	10,000 to 50,000	3 or Greater	400
7	Greater than 50,000	1 or Greater	400
	10,000 to 135,000	1 or 2	200
Office Buildings	10,000 to 135,000	3 or Greater	400
	Greater than 50,000 10,000 to 135,000	1 or Greater	400
	10,000 to 135,000	1 or 2	200
Retail	10,000 10 133,000	3 or Greater	400
	Greater than 135,000	1 or Greater	400
		1 or 2	200
Warehouse	20,000 to 256,000	3 or Greater	400
	Greater than 256,000	1 or Greater	400

5.106.5.6 Electric vehicle (EV) charging at public schools and community colleges. [DSA-SS] Electric vehicle infrastructure and electric vehicle charging stations shall comply with Section 5.106.5.6 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

Exceptions: 1. On a case-by-case basis where compliance with this section has been demonstrated to be not feasible based upon one of the following conditions, and with concurrence by the Division of the State Architect (DSA), compliance with Section 5.106.5.6 shall not be required.

- a. Where there is no local utility power supply.
- b. Where the local utility is unable to supply adequate power.

c. The installation of EVCS is impracticable. 2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with Section 5.106.5.6.

5.106.5.6.1 EV capable spaces. EV capable spaces shall be provided in accordance with Table 5.106.5.6.1 and the following requirements:

1. Raceways complying with the California Electrical Code and no less than 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area and shall terminate in close proximity to the proposed location of the EV capable space and into a suitable listed cabinet, box, enclosure or equivalent. A common raceway may be used to serve multiple EV capable spaces.

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2. A service panel or subpanel(s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.

3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.

4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective device space(s) as "EV CAPABLE." The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

TABLE 5.106.5.6.1				
TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF REQUIRED EVCS ²		
0-9	0	0		
10-25	4	1		
26-50	8	2		
51-75	13	3		
76-100	17	4		
101-150	25	6		
151-200	35	9		
201 AND OVER	20 percent of total spaces ¹	25 percent of EV capab spaces ¹		

1. Calculation for spaces shall be rounded up to the nearest whole number. 2. Each EVCS shall reduce the number of required EV capable spaces by the same number.

5.106.5.6.2 Electric vehicle charging stations (EVCS). EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.6.1 and shall comply with Section 5.106.5.6.2. EVCS shall be serviced by Level 2 or Direct Current Fast Charging (DCFC) EVSE, or with EVSE in any combination of Level 2 and DCFC. Accessible EVCS shall be provided in accordance with California Building Code Chapter 11B.

THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE	
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California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (July 2024 Supplement)

			NÜ	NKE	:51L	JENI		MANDATORY MEASURES, SI	HEEI Z (July 2024 Supplement)
A RESPON. PARTY	5.106.5.6.2.1 Reduced						RESPON. PARTY	5 406 0 4 Facing Backlight	
	permitted to reduce the by five and reduce prop 5.106.5.6.2.2 Multiple of	portionally the re	equired electrica	I load capacity to	o the service pa	anel or subpanel.		Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.	5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following: 5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per
	EVs simultaneously sha each EV capable space	all be permitted e is accumulativ	l if the electrical levely supplied to the	load capacity req he EVSE.	uired by Sectio	on 5.106.5.6.1 for		Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property	flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.
	5.106.5.6.2.3 Use of au EVCS installed in accor load capacity specified EVSE controlled by an	rdance with Sec in Section 5.10	ction 5.105.5.6.2)6.5.6.1 for each	. When ALMS is EVCS may be re	installed, the re educed when s	equired electrical erviced by an		lines to determine the required backlight rating. 5.106.8.2 Facing-Glare.	 Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush. 5.303.3.2 Urinals.
	to an EV when charging multiple EVs.	g one vehicle a	nd shall deliver a	a minimum 3.3 kV	W while simulta	aneously charging		For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.	5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.
	5.106.5.6.3 EVCS alternative provided with Level 1, low pov Level 2 EVSE such that the to indicated in Table 5.106.5.6.3	wer Level 2, or l otal power supp	Level 2, or any c blied by the comb	combination of Le bination of EVSE	evel 1, low pow meets the mini	er Level 2 or imum power		Note: [N] 1.See also <i>California Building Code</i> , Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.	 5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush. 5.303.3.3 Showerheads. [BSC-CG]
	TABLE 5.106.5.6.3							 2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, <i>California Energy Code</i> Tables 130.2-A and 130.2-B. 3. Refer to the <i>California Building Code</i> for requirements for additions and alterations. 	5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.
	NUMBER OF PARKING S IN A PARKING FACIL			DTAL POWER (H RED FOR EVCS	, ,			5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:	 5.303.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the 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 outlet to be in operation at a time. Note: A hand-held shower shall be considered a showerhead.
	10-25			7				 Swales. Water collection and disposal systems. French drains. Water retention gardens. 	 5.303.3.3 Showerheads. [BSC-CG] 5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA
	51-75			20				 Water retention gardens. Other water measures which keep surface water away from buildings and aid in groundwater recharge. Exception: Additions and alterations not altering the drainage path. 	WaterSense Specification for Showerheads serving one shower. When a shower is served by more than one
	76-100 101-150 151,200			27 40				5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation	showerhead, the combined flow rate of all the 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 outlet to be in operation at a time.
	151-200 201 AND OVER			60 d KVA = P × .05 arking spaces in f				necessary to establish and maintain tree health shall comply with Section 5.304.6. 5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.	Note: A hand-held shower shall be considered a showerhead. 5.303.3.4 Faucets and fountains. 5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not
1 1	106.5.6.4 EVCS for alterations o cilities shall provide EVCS in com							Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in line of shade tree planting.	more than 0.5 gallons per minute at 60 psi. 5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 callens per minute at 60 psi. Kitchen faucets may temperarily increase the flow above the maximum rate.
	aces required to be provided with 5.106.5.6.4.1 Alterations of	nout EVSE shal	Il not be required	d .		·		lieu of shade tree planting. 5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.	gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.
	the number indicated in Table of work includes an increase area or when area containing	e 5.106.5.6.1 or in power supply	r minimum powe ly to an electric p	er indicated in Ta banel serving ligh	able 5.106.5.6.3 nt fixtures illum	3 when the scope inating the parking		Exceptions: Playfields for organized sport activity are not included in the total area calculation.	5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi].
	shall be based on the total nu 5.106.5.6.4.2 Alterations co			•				5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.	 5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle. 5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].
	in accordance with the numbe 5.106.5.6.3 when a new pho					in Table		 Exceptions: 1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting. 	Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.
cr	106.5.6.5 Requirement to install eate EVCS when a project is requ proval to the Division of the State	ired by Califorr	nia Administrativ	e Code Section	4-309 to be su	bmitted for plan		2. Designated and marked play areas of organized sport activity are not included in the total area calculation.	5.303.3.4.6 Pre-rinse spray value When installed, shall meet the requirements in the <i>California Code of Regulations</i> , Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607
E	CS shall be provided in accordan Exception: Projects in which	improvements	in parking areas		accessibility im	nprovements are		DIVISION 5.2 ENERGY EFFICIENCY SECTION 5.201 GENERAL 5.201.1 Scope [BSC-CG]. California Energy Code [DSA-SS]. For the purposes of mandatory energy efficiency	(d)(7), and shall be equipped with an integral automatic shutoff. FOR REFERENCE ONLY: The following table and code section have been reprinted from the <i>California</i>
	not required to comply with So 106.8 LIGHT POLLUTION REDU th the following:			systems shall be	designed and	installed to comply		standards in this code, the California Energy Commission will continue to adopt mandatory building standards.	Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).
	 The minimum requirements Section 10-114 of the Calif 	fornia Administr	rative Code; and	••••		ed in Chapter 10,		DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION SECTION 5.301 GENERAL	TABLE H-2
	 Backlight (B) ratings as def Uplight and Glare ratings a Chapter 8) and Allowable BUG ratings not 	as defined in Ca	alifornia Ènergy C	Code (shown in T	ables 130.2-A			5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.	STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019
	lawfully enacted pursuant t				Comply ward			SECTION 5.302 DEFINITIONS 5.302.1 Definitions. The following terms are defined in Chapter 2 (and are included here for reference)	PRODUCT CLASS [spray force in ounce force (ozf)] MAXIMUM FLOW RATE (gpm)
	 Luminaires that qua Emergency lighting. Building facade meet 			. ,				EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which as two major influences on the amount of water that needs to be applied to the landscape.	Product Class 1 (\leq 5.0 ozf)1.00Product Class 2 (> 5.0 ozf and \leq 8.0 ozf)1.20Product Class 3 (> 8.0 ozf)1.28
	 Custom lighting feat Alternate materials, Luminaires with less 	tures as allowed designs and m	d by the local en nethods of constr	iforcing agency, a ruction.				FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks. METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The	5.303.4 COMMERCIAL KITCHEN EQUIPMENT.
	TABLE 5.106.8 [N] MA			BACKLIGHT	Γ,			volume or cycle duration can be fixed or adjustable. GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that	5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
	ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4		has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or	Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.
	MAXIMUM ALLOWABLE BACKLIGHT RATING 3							dishwashers. MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape	5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.
	Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit		design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.	5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the <i>California Plumbing Code</i> , and shall meet the applicable standards referenced in Table 1701.1 of the <i>California Plumbing Code</i> and in Chapter 6 of this code.
	Luminaire back hemisphere is 1-2 MH from property line Luminaire back hemisphere is	N/A	B2	B3	B4	B4		MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least	3.004.1 OUTDOURT OTABLE WATER ODE IN LANDOOAT L'ARLAG. Nonconcential developmento shall comply
	0.5-1 MH from property line Luminaire back hemisphere is	N/A	B1	B2	B3	B3		as effective as the MWELO. POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.	with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.
	less than 0.5 MH from property line MAXIMUM ALLOWABLE	N/A	B0	B0	B1	B2		POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority	 Notes: The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including a water budget calculator, are available at:
	UPLIGHT RATING (U) For area lighting ₃	N/A	UO	UO	U0	UO		Having Jurisdiction. RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water	https://www.water.ca.gov/. 5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges,
	For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR		treated to remove waste matter attaining a quality that is suitable to use the water again. SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental	landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, <i>California Code of Regulations</i> , except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.
	MAXIMUM ALLOWABLE GLARE RATING 5 (G) MAXIMUM ALLOWABLE							unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.) WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied	Exception : Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.
	GLARE RATING 5 (G)	N/A 	G1 	G2 G1	G3 G1	G4 G2		water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).	5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.
	GLARE RATING 5 (G) MAXIMUM ALLOWABLE GLARE RATING 5 (G)	N/A	G0	G0	G1	G1		SECTION 5.303 INDOOR WATER USE 5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.	5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.
	MAXIMUM ALLOWABLE GLARE RATING 5 (G)	N/A	G0	G0	G0	G1		 5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows: 1. For each individual leased, rented or other tenant space within the building projected to consume 	DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY
	1. IESNA Lighting Zones 0 and 8 Energy Code and Chapter 10 of				defined in the	L California		more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.	SECTION 5.401 GENERAL 5.401.1 SCOPE. The provisions of this chapter specify the requirements of achieving material conservation, resource efficiency, and greenhouse gas (GHG) emission reduction through protection of buildings from exterior moisture,
	2. For property lines that abut processidered to be 5 feet beyond t section. For property lines that a	he actual prope	erty line for purp	ose of determinin	ng compliance	with this		 Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems: Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s). Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s). 	construction waste diversion, employment of techniques to reduce pollution through recycling of materials, the installation of products with lower GHG emissions and building commissioning or testing and adjusting.
	considered to be the centerline c compliance with this section.	of the public roa	adway or public t	transit corridor fo	or the purpose	of determining		 c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW). 5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant 	SECTION 5.402 DEFINITIONS 5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)
	3. General lighting luminaires in a reduced ratings. Decorative lumi lighting"							within a new building or within an addition that is projected to consume more than 1,000 gal/day.	ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING VERIFICATION WITH THE FULL CODE.

			Y = YES N/A = NOT APPLICABLE RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)	
	YN	A RESPON. PARTY	BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.	
ł			BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.	
ber			BUY CLEAN CALIFORNIA ACT (BCCA). The Buy Clean California Act (BCCA) (Public Contract Code Sections 3500-3505) targets carbon emissions associated with the production of structural steel (hot-rolled sections, hollow	
of			structural sections, and plate), concrete reinforcing steel, flat glass, and mineral wool board insulation. The maximum acceptable global warming potential (GWP) limits are established by the Department of General Services (DGS), in consultation with the California Air Resources Board (CARB).	
exceed			CRADLE-TO-GRAVE. Activities associated with a product or building's life cycle from the extraction stage through disposal stage, and covering modules A1 through C4 in accordance with ISO Standards 14025 and 21930.	
shall			ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.	
1.8			REFERENCE STUDY PERIOD. The period of use for the building, in years, that will be assumed for life cycle assessment.	
n one			TEST. A procedure to determine quantitative performance of a system or equipment TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD). A third-party verified report that summarizes how a product impacts the environment. Type III EPDs can be either product-specific, factory-specific, or industry-wide EPDs.	
l by a			See "Cradle-to-Gate." FACTORY-SPECIFIC EPD. A product-specific Type III EPD in which the environmental impacts can be attributed to a single manufacturer and manufacturing facility.	
1.8 . EPA			INDUSTRY-WIDE EPD (IW-EPD). A Type III EPD in which the environmental impacts are an average of the typical manufacturing impacts for a range of products within the same product category for a group of	
one			manufacturers. PRODUCT-SPECIFIC EPD. A Type III EPD in which the environmental impacts can be attributed to a product design and manufacturer across multiple facilities.	
by a		6	SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT 5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by	
of not		4	California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.	
} m roto			5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.	
m rate, gallons			5.407.2.2 Entries and openings . Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:	
			5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:	
a			 An installed awning at least 4 feet in depth. The door is protected by a roof overhang at least 4 feet in depth. The door is recessed at least 4 feet. Other methods which provide equivalent protection. 	
			5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.	
nce 07			SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING	
fornia			5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.	
			5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:	
			 Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream). Identifies diversion facilities where construction and demolition waste materials diverted shall be taken. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both. 	
			5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.	
			Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.	
			Exceptions to Sections 5.408.1.1 and 5.408.1.2:	
gpm fter no			 Excavated soil and land-clearing debris. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets. 	
ll apply			5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.	
talled 1701.1			5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency. Notes:	DIST.
mply I Water			 Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission- Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan. Mixed construction and demolition debris processors can be located at the California Department of 	VALLEY MEM.
ations,			Resources Recycling and Recovery (CalRecycle). 5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping	
leges, nt of			provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.	- RA VAI
pter TAF)			Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/	ECONOMIC AND A STATE OF A STATE O
the			 5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation. 	REMODE I'S HALL ANTA CLA SIXTH ST CA
			Notes:	N RI SAN SAN SAN CA , CA
			 If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov) 	KITCHEN I VETERAN SOUTH S/ 74 WEST (GILROY, C
ource			SECTION 5.409 LIFE CYCLE ASSESSMENT 5.409.1 SCOPE. [BSC-CG] Effective July 1, 2024, projects consisting of newly constructed building(s) with a combined floor area of 100,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.	X > O N U
adjust			[DSA-SS] Projects consisting of newly constructed building(s) with a combined floor area of 50,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or 5.409.3.	CG2



California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (July 2024 Supplement)

1					T
I/A RESPON. PARTY				Y N/A RESPON PARTY	4
	5.409.2 Whole building life cycle assess assessment performed in accordance with demonstrating a minimum 10-percent redu baseline building of similar size, function, c meets the requirements of the California Er life cycle assessment, including reference to 21930 or EN 15804, and the software shall shall be the same for evaluation of both the	ISO 14040 and ISO 14044, excluding ction in global warming potential (GWP omplexity, type of construction, materia nergy Code currently in effect. Software baseline building, shall have a data set conform to ISO 21931 and/or EN 1593	perating energy, and as compared to a reference I specification, and location that used to conduct the whole buildin compliant with ISO 14044, and ISO 8. The software tools and data set	s l	5.409.3.2 Verification of required to comply, if inclusion shall be provided on the comprovided to the owner at the agency may require inspective at completion of construct design professional of recompletion SECTION 5.410 BUILD
	Notes: 1. Software for calculating whole buil Materials Institute (https://calculatelo (www.oneclicklca.com/planetary). Pa	ding life cycle assessment is available a.com/software/impact-estimator/) and aid versions include, but are not limited o.com), One-Click LCA (www.oneclickl	for free at Athena Sustainable OneClick LCA-Planetary to, Sphera GaBi Solutions		5.410.1 RECYCLING BY OCCL identified for the depositing, stor paper, corrugated cardboard, gla ordinance, if more restrictive. Exception: Rural jurisdic Code 42649.82 (a)(2)(A)
	(apps.autodesk.com). 2. ASTM E2921-22 "Standard Practi	ce for Minimum Criteria for Comparing Codes, Standards, and Rating Systems	Whole Building Life Cycle		5.410.1.1 Additions. All resulting in an increase of
	assessment. 3. In addition to the required docume required by the enforcing entity to de		Exception: Addition floor area. 5.410.1.2 Sample ordina Division 30 of the Public F		
	5.409.2.1 Building components . Building components. Building assemblies, insulation, and the assessment shall be limited to fo		Recycling Access Act of 1 Note: A sample ordinanc CalRecycle's web site.		
	floors. 5.409.2.2 Reference study period. reference baseline building and shal		5.410.2 COMMISSIONING. [N] I and over, building commissioning verify that the building systems a Commissioning shall be performed		
	Worksheet WS-4 signed by the design as documentation of compliance. A canalysis produced by the software, in operation and maintenance manual enforcing agency may require inspect	ce. A summary of the GWP analysis program professional of record shall be provisopy of the whole building life cycle as a addition to maintenance and training and shall be provided to the owner at the tion and inspection reports in accordant to to demonstrate substantial conformation to demonstrate substantial conformation and shall be provided to the substantial conformation to demonstrate substantial conformation to demonstrate substantial conformation and substantial conformation to demonstrate substantial conformation and subs	ted in the construction documents essment which includes the GWP nformation, shall be included in the e close of construction. The ace with Sections 702.2 and 703.1		comparable size and complexity. L-occupancies that are not regula 5.410.2 through 5.410.2.6 shall a Note: For energy-related system ventilation, air conditioning (HVA heating systems and controls, re
		l of record or third party acceptable to t criptive path. Each product that is per	he enforcing agency. nanently installed and listed in		Commissioning requirements sha 1. Owner's or Owner repr 2. Basis of design.
	factory-specific. TABLE 5.409.3				 Basis of design. Commissioning measu Commissioning plan. Functional performanc Documentation and tra Commissioning report.
	PRODUCT GWP LIMITS BUY CLEAN CALIFORNIA MATERIALS PRODUCT CATEGORY ¹	MAXIMUM ACCEPTABLE GWP VALUE (unfabricated) (GWP _{allowed})	UNIT OF MEASUREMENT		Exceptions: 1. Unconditioned wareho 2. Areas less than 10,000
	Hot-rolled structural steel sections Hollow structural sections	1.77 3.00	MT CO ₂ e/MT MT CO ₂ e/MT		unconditioned warehout 3. Tenant improvements la 4. Open parking garages Note: For the purposes of
	Steel plate Concrete reinforcing steel	2.61 1.56	MT CO ₂ e/MT MT CO ₂ e/MT		Informational Notes:
	Flat glass Light-density mineral wool board insulation	2.50 5.83	MT CO ₂ e/MT ⁴ kg CO ₂ e/MT		 Functional performance must be performed in com 5.410.2.1 Owner's or Ow
	Heavy-density mineral wool board insulation	14.28 Concrete, Ready-Mixed ² , ³	kg CO ₂ e/MT		requirements of the buildin project begins. This docum 1. Environmental a 2. Building sustaina
	CONCRETE PRODUCT CATEGORY	MAXIMUM GWP ALLOWED VALUE (GWP _{allowed})	UNIT OF MEASUREMENT		 Indoor environm Project program, operation. Equipment and s Building occupar
	up to 2499 psi 2500–3499 psi	450 489	kg CO ₂ e/m ³ kg CO ₂ e/m ³		5.410.2.2 Basis of Design the OPR shall be complete cover the following system
	3500-4499 psi 4500-5499 psi	566	kg CO ₂ e/m ³ kg CO ₂ e/m ³		 Renewable ener Landscape irriga Water reuse system
	5500–6499 psi	701	kg CO ₂ e/m ³		5.410.2.3 Commissioning document how the project 1. General project i 2. Commissioning
	6500 psi and greater	799 crete, Lightweight Ready-Mixed ²	kg CO ₂ e/m ³		 3. Systems to be constrained as a constrained as
	CONCRETE PRODUCT CATEGORY	MAXIMUM GWP ALLOWED VALUE	UNIT OF MEASUREMENT		d. Conditions e. Measurab 4. Commissioning 5. Commissioning commissioning s
	up to 2499 psi	(GWP _{allowed}) 875	kg CO ₂ e/m ³		5.410.2.4 Functional performance installation and operation of approved plans and specific
	2500–3499 psi	956	kg CO ₂ e/m ³		each of the building compo made. 5,410.2,5 Documentation
	3500-4499 psi 1. The GWP values of the products li	1039 sted in Table 5.409.3 are based on 175	kg CO ₂ e/m ³	ct	including Occupational Saf Title 8, Section 5142, and o
	 (BCCA) GWP values, except for cond 2. For concrete, 175 percent of the N Pacific Southwest regional benchmar 3. Concrete High Early Strength read GWP allowed values for each product 4. The GWP unit for flat glass has be (MT CO2e/MT), reported GWP value Material Baselines (2023). 5.409.3.1 Products shall not exceed to Exception: Concrete may be considered 	crete products which are not included in ational Ready Mixed Concrete Associa k values are used for the GWP allowed y-mixed shall be calculated at 130 pero t category. en adjusted to correct an error in the et s will align with industry data as publish the maximum GWP value specified in T ered one product category to meet com	the BCCA. tion (NRMCA) 2022 version 3 , except for High Early Strength. ent of the ready-mixed concrete press terms. With the revised unit ed in the CLF North American able 5.409.3. pliance with this section. A		5.410.2.5.1 Systems completed within the systems manual sha 1. Site inform 2. Site conta 3. Basic ope troublesho 4. Major syst 5. Site equip 6. A copy of 7. Other reso
	weighted average of the maximum G weighted average maximum GWP al	WP for all concrete mixes installed in to lowed per Table 5.409.3 using Exception its of measurement for the material qu	he project shall be less than the on Equation 5.409.3.1. Calculations	s	5.410.2.5.2 Systems staff for each equipm report and shall inclu 1. System/eo equipmen
	Exception EQUATION 5.409.3.1 GWP _n < GWP _{allowed} where				2. Review ar 3. Review of 4. Review of
	$GWP_n = \Sigma (GWP_n)(v_n)$ and $GWP_{allowed} = \Sigma (GWP_{allowed})(v_n)$ and n = each concrete mix installed in the	project			5.410.2.6 Commissioning design and construction phrepresentative.
	n = each concrete mix installed in the GWP _n = the GWP for concrete mix $n $ mix EPD, in kg CO2e/m3 GWP _{allowed} = the GWP potential allow	ber concrete			5.410.4 TESTING AND ADJUST systems shall be required for new alteration subject to Section 303.

of compliance. Calculations to demonstrate compliance, Type III EPDs for products included in the project, and Worksheet WS-5 signed by the design professional of record is construction documents. Updated EPDs for products used in construction shall be at the close of construction and to the enforcement entity upon request. The enforcing spection and inspection reports in accordance with Sections 702.2 and 703.1 during and ruction to demonstrate substantial conformance. Inspection shall be performed by the record or third party acceptable to the enforcing agency.

DING MAINTENANCE AND OPERATIONS

CUPANTS. Provide readily accessible areas that serve the entire building and are storage and collection of non-hazardous materials for recycling, including (at a minimum) glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling

dictions that meet and apply for the exemption in Public Resources A) et seq. shall also be exempt from the organic waste portion of this section.

All additions conducted within a 12-month period under single or multiple permits, e of 30% or more in floor area, shall provide recycling areas on site.

ditions within a tenant space resulting in less than a 30% increase in the tenant space

inance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, *ic Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and of 1991 (Act).

ance for use by local agencies may be found in Appendix A of the document at the

NJ New buildings 10,000 square feet and over. For new buildings 10,000 square feet ning shall be included in the design and construction processes of the building project to is and components meet the owner's or owner representative's project requirements. rmed in accordance with this section by trained personnel with experience on projects of city. For I-occupancies that are not regulated by OSHPD or for I-occupancies and gulated y the California Energy Code Section 100.0 Scope, all requirements in Sections all apply.

ems under the scope (Section 100) of the California Energy Code, including heating, VAC) systems and controls, indoor lighting systems and controls, as well as water refer to California Energy Code Section 120.8 for commissioning requirements

shall include:

epresentative's project requirements.

asures shown in the construction documents

ance testing. I training.

houses of any size.

000 square feet used for offices or other conditioned accessory spaces within ehouses. Its less than 10,000 square feet as described in Section 303.1.1.

ges of any size, or open parking garage areas, of any size, within a structure.

s of this section, unconditioned shall mean a building, area or room which does not air conditioning.

ance testing for heating, ventilation, air conditioning systems and lighting controls ompliance with the *California Energy Code*.

Owner Representative's Project Requirements (OPR). [N] The expectations and ding appropriate to its phase shall be documented before the design phase of the sumentation shall include the following:

l and sustainability goals. ainable goals. nmental quality requirements.

ram, including facility functions and hours of operation, and need for after hours

pant and operation and maintenance (O&M) personnel expectations.

ign (BOD). [N] A written explanation of how the design of the building systems meets leted at the design phase of the building project. The Basis of Design document shall ems:

igation systems.

ing plan. [N] Prior to permit issuance a commissioning plan shall be completed to ect will be commissioned. The commissioning plan shall include the following: ect information.

ng goals. e commissioned. Plans to test systems and components shall include: lanation of the original design intent.

nent and systems to be tested, including the extent of tests. ons to be tested.

tions under which the test shall be performed.

Irable criteria for acceptable performance. ing team information.

ng process activities, schedules and responsibilities. Plans for the completion of ng shall be included.

berformance testing. [N] Functional performance tests shall demonstrate the correct on of each component, system and system-to-system interface in accordance with the ecifications. Functional performance testing reports shall contain information addressing mponents tested, the testing methods utilized, and include any readings and adjustments

on and training. [N] A Systems Manual and Systems Operations Training are required, Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), and other related regulations.

ems manual. [N] Documentation of the operational aspects of the building shall be the systems manual and delivered to the building owner or representative. The shall include the following:

formation, including facility description, history and current requirements.

operations and maintenance, including general site operating procedures, basic shooting, recommended maintenance requirements, site events log. systems.

quipment inventory and maintenance notes.
y of verifications required by the enforcing agency or this code.

esources and documentation, if applicable.

ems operations training. [N] A program for training of the appropriate maintenance ipment type and/or system shall be developed and documented in the commissioning include the following:

n/equipment overview (what it is, what it does and with what other systems and/or nent it interfaces).

v and demonstration of servicing/preventive maintenance. v of the information in the Systems Manual.

v of the record drawings on the system/equipment.

ing report. [N] A report of commissioning process activities undertaken through the n phases of the building project shall be completed and provided to the owner or

ISTING. New buildings less than 10,000 square feet. Testing and adjusting of new buildings less than 10,000 square feet or new systems to serve an addition or 0.2.1

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

- 1. Renewable energy systems.
- Landscape irrigation systems.
 Water reuse systems.
- **5.410.4.3 Procedures.** Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors

SECTION 5.502 DEFINITIONS 5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32⁰ Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I–joists or finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California Electrical Code*, off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCSj). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2-1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O³/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

-11	RESPON. PAF	RTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINE OWNER, CONTRACTOR, INSPECTOR ETC.)
A RESPON. PARTY	SECTION 5.503 FIREPLACES 5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion woodstove or pellet stove, and refer to residential requirements in th	ne California Energy Code, Title 24, Part 6,
dala iba iyo ina alaba di shane at anang senaji di sa nyaya	Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplace 5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall Standards (NSPS) emission limits as applicable, and shall ha	comply with U.S. EPA New Source Performance
	to meet the emission limits. SECTION 5.504 POLLUTANT CONTROL 5.504.1 TEMPORARY VENTILATION. The permanent HVAC syst necessary to condition the building or areas of addition or alteration material and equipment installation. If the HVAC system is used du Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRA 30% based on ASHRAE 52.1-1992 Replace all filters immediately p occupied during alteration, at the conclusion of construction.	within the required temperature range for ring construction, use return air filters with a AE 52.2-1999, or an average efficiency of
<u>,</u>	5.504.3 Covering of duct openings and protection of mechanica rough installation and during storage on the construction site until fir equipment, all duct and other related air distribution component ope sheetmetal or other methods acceptable to the enforcing agency to may enter the system.	nal startup of the heating, cooling and ventilation nings shall be covered with tape, plastic,
	5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish mate	rials shall comply with Sections 5.504.4.1 throu
	 5.504.4.6. 5.504.4.1 Adhesives, sealants and caulks. Adhesives, s the requirements of the following standards: Adhesives, adhesive bonding primers, adhesive princomply with local or regional air pollution control or air applicable, or SCAQMD Rule 1168 VOC limits, as shorproducts also shall comply with the Rule 1168 prohibiti (chloroform, ethylene dichloride, methylene chloride, p aerosol products as specified in subsection 2, below. Aerosol adhesives, and smaller unit sizes of adhes units of product, less packaging, which do not weigh methylene disclored and search and sear	ealants, and caulks used on the project shall m mers, sealants, sealant primers and caulks shal quality management district rules where wn in Tables 5.504.4.1 and 5.504.4.2. Such on on the use of certain toxic compounds erchloroethylene and trichloroethylene), except sives, and sealant or caulking compounds (in nore than one pound and do not consist of more
	than 16 fluid ounces) shall comply with statewide VOC prohibitions on use of certain toxic compounds, of <i>Cali</i> with Section 94507.	fornia Code of Regulations, Title 17, commenci
	TABLE 5.504.4.1 - ADHESIVE VOC LIMIT	
	Less Water and Less Exempt Compounds in Grams per Li ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
	INDOOR CARPET ADHESIVES	50
		50
	OUTDOOR CARPET ADHESIVES	150
	RUBBER FLOOR ADHESIVES	60
	SUBFLOOR ADHESIVES	50
	CERAMIC TILE ADHESIVES	65
	VCT & ASPHALT TILE ADHESIVES	50 50
	COVE BASE ADHESIVES	50
	MULTIPURPOSE CONSTRUCTION ADHESIVES	70
	STRUCTURAL GLAZING ADHESIVES	100
	SINGLE-PLY ROOF MEMBRANE ADHESIVES	250 50
	OTHER ADHESIVES NOT SPECIFICALLY LISTED	
	PVC WELDING	510
	CPVC WELDING	490
		250
	ADHESIVE PRIMER FOR PLASTIC	550
	CONTACT ADHESIVE	80
	SPECIAL PURPOSE CONTACT ADHESIVE	250
	STRUCTURAL WOOD MEMBER ADHESIVE	140
	TOP & TRIM ADHESIVE SUBSTRATE SPECIFIC APPLICATIONS	250
	METAL TO METAL	30
	PLASTIC FOAMS	50
	POROUS MATERIAL (EXCEPT WOOD)	50 30
	WOOD FIBERGLASS	80
	1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SU	BSTRATES TOGETHER, THE ADHESIVE
	WITH THE HIGHEST VOC CONTENT SHALL BE ALLOW 2. FOR ADDITIONAL INFORMATION REGARDING MET CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH CO DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURH	HODS TO MEASURE THE VOC AST AIR QUALITY MANAGEMENT
	TABLE 5.504.4.2 - SEALANT VOC LIMIT	
	Less Water and Less Exempt Compounds in Grams per Li SEALANTS	CURRENT VOC LIMIT
	ARCHITECTURAL	250
	MARINE DECK	760
	NONMEMBRANE ROOF	300
	ROADWAY SINGLE-PLY ROOF MEMBRANE	250 450
	OTHER	420
	SEALANT PRIMERS	
	ARCHITECTURAL	
	ARCHITECTURAL NONPOROUS	250
	ARCHITECTURAL	250 775 500
	ARCHITECTURAL NONPOROUS POROUS	775

NOT APPLICABLE

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING VERIFICATION WITH THE FULL CODE.

DISTRICT RULE 1168.

CG3



N/A RESPON.

California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE **NONRESIDENTIAL MANDATORY MEASURES, SHEET 4** (July 2024 Supplement)

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

	TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL
The second se	COATINGS _{2,3}

COATING CATEGORY	CURRENT VOC LIMI
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
NDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS1	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS 2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following: 1. Manufacturer's product specification 2. Field verification of on-site product containers

5.504.4.4 Carpet Systems.

All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers,"Version 1.2, January 2017 (Emission testing method for California Specifications 01350)

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

SECTION 5.506 I 5.506.1 OUTSIDE AIR D requirements of Section code, whichever is more

5.506.2 CARBON DIOXI ventilation, CO₂ sensors of the California Energy C

5.504.4.5 Composite wood products. Hardwood plywood, par composite wood products used on the interior or exterior of the b		Y N/A RESPON. PARTY SECTION 5.507 ENVIRONMENTAL COMFORT 5 507 4 ACOLISTICAL CONTROL Employ building assemblies and components with Sound Transmission Class
formaldehyde as specified in ARB's Air Toxics Control Measure seq.). Those materials not exempted under the ATCM must mee Table 5.504.4.5.	(ATCM) for Composite Wood (17 CCR 93120 et	5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.
5.504.4.5.3 Documentation. Verification of compliance w requested by the enforcing agency. Documentation shall i 1. Product certifications and specifications.		Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.
 Chain of custody certifications. Product labeled and invoiced as meeting the Composi CCR, Title 17, Section 93120, et seq.). Exterior grade products marked as meeting the PS-1 of the the theta is the theta in the theta is theta is the thet	- · ·	Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.
Engineered Wood Association, the Australian AS/NZS standards. 5. Other methods acceptable to the enforcing agency.	2269 or European 636 3S	5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:
TABLE 5.504.4.5 - FORMALDEHYDE LIMITS		1. Within the 65 CNEL noise contour of an airport.
MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILL	ION	Exceptions: 1. Ldn or CNEL for military airports shall be determined by the facility Air Installation Compatible
PRODUCT	CURRENT LIMIT	Land Use Zone (AICUZ) plan. 2. Lon or CNEL for other airports and heliports for which a land use plan has not been developed
HARDWOOD PLYWOOD VENEER CORE	0.05	shall be determined by the local general plan noise element.
PARTICLE BOARD	0.09	2. Within the 65 CNEL or Ldn noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.
	0.11	5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L _{eq} - 1-hr during any hour of operation shall have building, addition or alteration
THIN MEDIUM DENSITY FIBERBOARD2 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY TH TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN AC	I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).
ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS O	TITLE 17, SECTIONS 93120 THROUGH 93120.12.	5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall an roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that doe not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation
5.504.4.6 Resilient flooring systems. Where resilient flooring receiving resilient flooring shall meet the requirements of the Ca Method for the Testing and Evaluation of Volatile Organic Chem	lifornia Department of Public Health, "Standard	5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.
Environmental Chambers," Version 1.2, January 2017 (Emission 01350)		5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.
See California Department of Public Health's website for certifice https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAC		5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tena spaces and public places shall have an STC of at least 40.
		Note: Examples of assemblies and their various STC ratings may be found at the California Office of
5.504.4.6.1 Verification of compliance. Documentation materials meet the pollutant emission limits.	snall be provided verifying that resilient flooring	Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf. SECTION 5.508 OUTDOOR AIR QUALITY
5.504.4.7 Thermal insulation Comply with the requirements of the California Department of P	ublic Health, "Standard Method of the Testing	5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.
and Evaluation of Volatile Organic Chemical Emissions from Ind "Version 1.2, January 1.2, January 2017 (Emission testing meth See California Department of Public Health's website for certifica https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAC	od for California Specification 01350). ation programs and testing labs.	5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do n contain CFCs.
5.504.4.7.1 Verification of compliance. Documentation shall be provided verifying that thermal i	nsulation materials meet the pollutant emission	5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons. Image: Application of the suppression equipment that do not contain Halons. 5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the
limits. 5.504.4.8 Acoustical ceiling and wall panels. Comply with the requirements of the California Department of Pu and Evaluation of Volatile Organic Chemical Emissions from Ind	ublic Health, "Standard Method for the Testing oor Sources Using Environmental Chambers, "	provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potent (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.
Version 1.2, January 2017 (Emission testing method for Californ See California Department of Public Health's website for certifica 5.504.4.8.1 Verification of compliance. Documentation finish materials meet the pollutant emission limits.	ation programs and testing labs.	Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO ₂), and potentially other refrigerants.
 5.504.5.3 Filters. In mechanically ventilated buildings, provide infiltration media for outside and return air that provides at least a 13. MERV 13 filters shall be installed prior to occupancy, and re the same value shall be included in the operation and maintenant. 	Minimum Efficiency Reporting Value (MERV) of commendations for maintenance with filters of	5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.
Exceptions: Existing mechanical equipment.		 5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack. 5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a
5.504.5.3.1 Labeling. Installed filters shall be clearly labeled rating.	by the manufacturer indicating the MERV	refrigerant charge of 5 pounds or less. 5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to
04.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. V ohibit smoking within 25 feet of building entries, outdoor air intakes a eady prohibited by other laws or regulations; or as enforced by ordin unty, city and county, California Community College, campus of the	nd operable windows and within the building as ances, regulations or policies of any city,	keep vibration levels below 8 mils. 5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.
iversity of California, whichever are more stringent. When ordinance nage to inform building occupants of the prohibitions.		Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufactures recommendations.
ECTION 5.505 INDOOR MOISTURE CONTROL 05.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exc R, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exte		5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.
ction 5.407.2 of this code.		5.508.2.2 Valves. Valves Valves and fittings shall comply with the California Mechanical Code and as follows.
ECTION 5.506 INDOOR AIR QUALITY i06.1 OUTSIDE AIR DELIVERY. For mechanically or naturally vent juirements of Section 120.1 (Requirements For Ventilation) of the Ca	alifornia Energy Code, or the applicable local	5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.
de, whichever is more stringent, and Division 1, Chapter 4 of CCR, 506.2 CARBON DIOXIDE (CO2) MONITORING. For buildings or ad ntilation, CO2 sensors and ventilation controls shall be specified and	ditions equipped with demand control	5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.
the California Energy Code, Section 120(c)(4).		5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.
SA-SS) Each public K-12 school classroom, as listed in Table 120.1 uipped with a carbon dioxide monitor or sensor that meets the follow . The monitor or sensor shall be permanently affixed in a tamper-	ing requirements: proof manner in each classroom between 3 and	5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.
 6 feet (914 mm and 1829 mm) above the floor and at least 5 fee windows. When the monitor or sensor is not integral to an Energy Manage sensor shall display the carbon dioxide readings on the device. \ 	ment Control System (EMCS), the monitor or	5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place. 5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves
carbon dioxide readings shall be available to and regularly monit A monitor shall provide notification though a visual indicator on t classroom have exceeded 1,100ppm. A sensor integral to an EM	ored by facility personnel. he monitor when the carbon dioxide levels in the	designed to have seal caps. Exception: Valves with seal caps that are not removed from the valve during stem
 personnel through a visual and/or audible indicator when the car exceeded 1,100ppm. The monitor or sensor shall measure carbon dioxide levels at mi record of previous carbon dioxide measurements of not less that 	nimum 15- minute intervals and shall maintain a	operation. 5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar a salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent
 The monitor or sensor used to measure carbon dioxide levels sh levels with a range of 400ppm to 2000ppm or greater. The monitor or sensor shall be certified by the manufacturer to b 	all have the capacity to measure carbon dioxide e accurate within 75ppm at 1,000ppm carbon	corrosion from these substances. 5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to
dioxide concentration and shall be certified by the manufacturer once every 5 years.		maximize energy efficiency. 5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device the indicates the level of refrigerant in the receiver
		with a device tha indicates the level of refrigerant in the receiver. 5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging
		charging. 5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.
		 appropriate tracer gas to bring system pressure up to 300 psig minimum. 5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same
		gauge. 5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more
		than a +/- one pound pressure change from 300 psig, measured with the same gauge.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING VERIFICATION WITH THE FULL CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

			Y = YES N/A = NOT APPLICABLE RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, EI OWNER, CONTRACTOR, INSPECTOR ETC
Y	N/A	RESPON. PARTY	 5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging. 5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes. 5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30
			minutes. 5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.
	Y	Y N/A	Y N/A RESPON. PARTY

CHAPTER 7 **INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS** 702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

NOT APPLICABLE RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

- 1. State certified apprenticeship programs. 2. Public utility training programs.
- 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. 4. Programs sponsored by manufacturing organizations.
- 5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

- 1. Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building
- performance contractors, and home energy auditors.
- Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency.

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

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		A1	MET	ALUX	
<u>GENERAL NOTES:</u>	A 1	1-EM	MET	ALUX	_
1. THIS PROJECT INVOLVES RENOVATION OF AND/OR INTERFACING WITH EXISTING FACILITIES.	F	B1	LITH	IONIA	_
ALL REPRESENTATIONS OF EXISTING CONDITIONS ARE BASED ON OWNER-FURNISHED AS-BUILT DRAWINGS AND/OR LIMITED FIELD VERIFICATION. PRIOR TO BEGINNING CONSTRUCTION OR ORDERING EQUIPMENT, CONTRACTOR SHALL VISIT THE SITE AND PERFORM FIELD INVESTIGATIONS TO DETERMINE ACTUAL EXISTING CONDITIONS INCLUDING LOCATIONS OF UTILITIES, EQUIPMENT, AND OBSTRUCTIONS.	ŀ				
2. THESE DOCUMENTS MAKE NO REPRESENTATION AS TO THE EXISTENCE OR LOCATION OF	┝				т
EXISTING HAZARDOUS MATERIALS (INCLUDING ASBESTOS CONTAINING MATERIALS) AT THE SITE. REMOVAL OR ABATEMENT OF HAZARDOUS MATERIALS IS NOT INCLUDED IN THE SCOPE OF THIS PROJECT. SHOULD CONTRACTOR DISCOVER SUSPECTED HAZARDOUS	Ļ			VOLT	ļ
MATERIALS AT THE SITE HE SHALL IMMEDIATELY BRING IT TO THE ATTENTION OF THE OWNER AND THE ARCHITECT PRIOR TO STARTING OR CONTINUING WORK INVOLVING THOSE	,	EQ-4		115	╀
MATERIALS.	ঢ়৾৾৵	EQ-4 EQ-		115 115	ł
3. ALL WORK SHOWN IS NEW UNLESS OTHERWISE INDICATED AS EXISTING (E), RELOCATED \bigwedge_{1} (RL) OR FUTURE.	\mathbf{r}	EQ-	\sim	120	╄
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE,	F	EQ-1		115	t
AND LOCAL CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO 2022 CALIFORNIA MECHANICAL CODE (CMC), 2022 CALIFORNIA PLUMBING CODE (CPC), 2022 CALIFORNIA BUILDING CODE (CBC), 2022 CALIFORNIA FIRE CODE (CFC), 2022 CALIFORNIA ELECTRICAL	F	EQ-	11	120	Ī
CODE, 2022 CALIFORNIA ENERGY CODE (CAL. CFR TITLE 24, PART 6), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA),	E	EF-	·1	240	ł
5. SUBMITTALS: REFER TO SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.	F	MAU	-1	240	ļ
	⊢	WP-	-1	120	╞
6. ALL EQUIPMENT SHALL BE MOUNTED AND ATTACHED TO STRUCTURE SO THAT IT IS RESTRAINED IN THE CASE OF A SEISMIC EVENT IN ACCORDANCE WITH THE REQUIREMENTS OF 2022 CBC.	ŀ				ł
7. RECORD DRAWINGS: CONTRACTOR SHALL KEEP OF AN ACCURATE RECORD DURING					I
CONSTRUCTION OF AS-BUILT CONDITIONS ON A SET OF CONTRACT DRAWINGS. RED LINE RECORD DRAWING MARK-UPS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE WITHIN 30 DAYS OF COMPLETION OF THE PROJECT.	╞				╞
8. OPERATION & MAINTENANCE (O&M) MANUALS: AT COMPLETION OF PROJECT CONTRACTOR	┢	(1)		TRACTO	L NR
SHALL SUBMIT TO THE OWNER 4 COPIES OF O&M MANUALS WHICH SHALL INCLUDE: • MFGR'S. O&M INSTRUCTIONS FOR ALL EQUIPMENT • OPPOSE OF ADDROVED CURVITAL DATA SUBMENT OF SUBMENT OF SUBMENT		(2)	TOGO	GLE TYF	۶
COPIES OF APPROVED SUBMITTAL DATA SHOWING EQUIPMENT SPECIFICATIONS, CAPACITIES, ETC.		(3)	СОМЕ	SINE WI	IT
 11x17 (FOLDED) COPIES OF ALL SHOP DRAWINGS 11x17 (FOLDED) COPIES OF CONTRACT RECORD DRAWINGS 		(4)	PRO\	VIDE EQ	ຸງເ
ALL O&M MANUALS SHALL BE INDEXED & BOUND IN 3 RING BINDERS WITH CLEAR		(5)	PR0\	VIDE RE	20
LABELING & TABBED DIVIDERS.		(6)	PR0\	VIDE MO	С.
		(7)	SIZE	PER E	C
		(8)	SEE	ELECTR	SI.
		N/A	– N	NOT AP	Ρ

		REMARKS/ACC		BRANCH CKT	T24 WATTS	DIM	COLOR	LUMENS				CATAL			PEP	JFACTUR
	NULJJUNILJ	NEMARKS/AU	HEIGHT SURFACE CEILING	DESIGN WATTS 50	124 WATIS 40	0–10V	TEMP 3000K	4413	TYPE LED		JU NU.		GTX 45HE	2200		X
	RY; EM LLF = 0.38; 1676LU		SURFACE CEILING	50	40	0-10V	3000K	4413	LED		970		GTX 45HE	_		
500	KT; EM LLF = 0.30; 1070L0	14W EMERG DATIERT;	SURFACE CEILING	25	20	0-10V N/A	3000K	1960	LED		.030		2 20L EZ1			x
			SURFACE CEILING	25	20	N/A	JUUUK	1960	LED			LPOJU				۹
		FLOOR	R/ARF – ABOVE RAISED	OVE FINISH FLOOF	LING/AFF – AB	ENDED CE	OVE SUSPE	SC – ABO	H SLAB/AS	- ABOVE FINISH	NISH GRADE/AFS	ABOVE FIN	AFG — A			
					INT	JIPM	_ EQI	NICAL	ECHA	ME						
			RKS	REMA		DISC. Size	equip. e fuse s		uip. Size	EQI DISC	EQUIP. FDR C.B.	VA	FLA	HP	HASE	LT PI
			IC	REFER T-23-H	RUE REACH IN		N/A		IA 5–15	NEM	20A-1P	253	2.2	-	1	5
			IC	REFER T-23-H	RUE REACH IN		N/A		IA 5–15	NEM	20A-1P	253	2.2	-	1	5
			R	TMF 1HC FREEZE	EVERAGE-AIR		N/A		A 5-15	NEM	20A-1P	544	4.7			5
)VEN	ULCAN VC4G (N/A		IA 5–15	NEM	20A-1P	924	7.7	-	1	20
)—HC	REFER TUC-60	RUE REACH IN		N/A		IA 5–15	NEM	20A-1P	748	6.5	-	1	5
				WAVE	OLWAVE MICRO		N/A		IA 5–15	NEM	20A-1P	1200	10.0	-	1	0
		\sim														
		μ <u>Υ</u> 2	240V-1PH; MOTOR 3PI	INPUT POWER:	ANGE HOOD /		-		(8)		30A-2P	5136	21.4	$) \sim$	$\widehat{1}$	ю 🖌
			240V-1PH; MOTOR 3				-		(8)		30A-2P	5136	21.4	_3	1	ю {
		<u> </u>		P PUMP	OT WATER LOC)			(8)		20A-1P	120	1.0	\sum_{2}	1	:0

TOR TO FIELD VERIFY ALL EQUIPMENT ELECTRICAL CHARACTERISTICS.

YPE MOTOR RATED DISCONNECT SWITCH, PROVIDED WITH EQUIPMENT OVERLOADS.

WITH LIGHTING CIRCUITS.

EQUIP. SERVICE DISC. SWITCH IF UNIT DOES NOT HAVE INTEGRAL DISCONNECTING MEANS.

RECEPTACLE TO MATCH UNIT CORD.

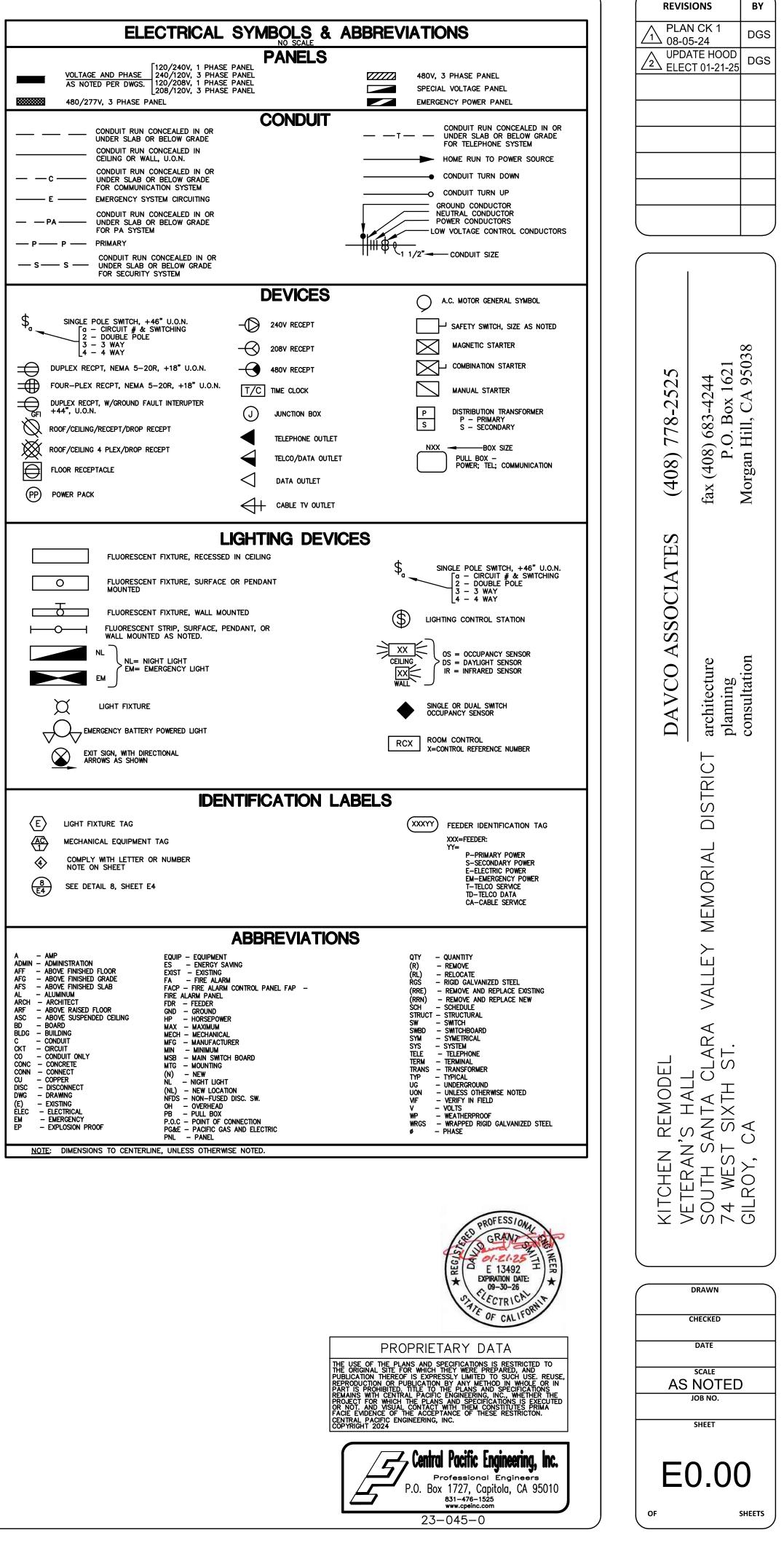
MOTOR THERMAL OVERLOAD PROTECTION IF MOTOR DOES NOT HAVE MOTOR THERMAL OVERLOAD PROTECTION.

EQUIPMENT FULL LOAD NAMEPLATE CURRENT.

TRICAL PLAN.

PPLICABLE.

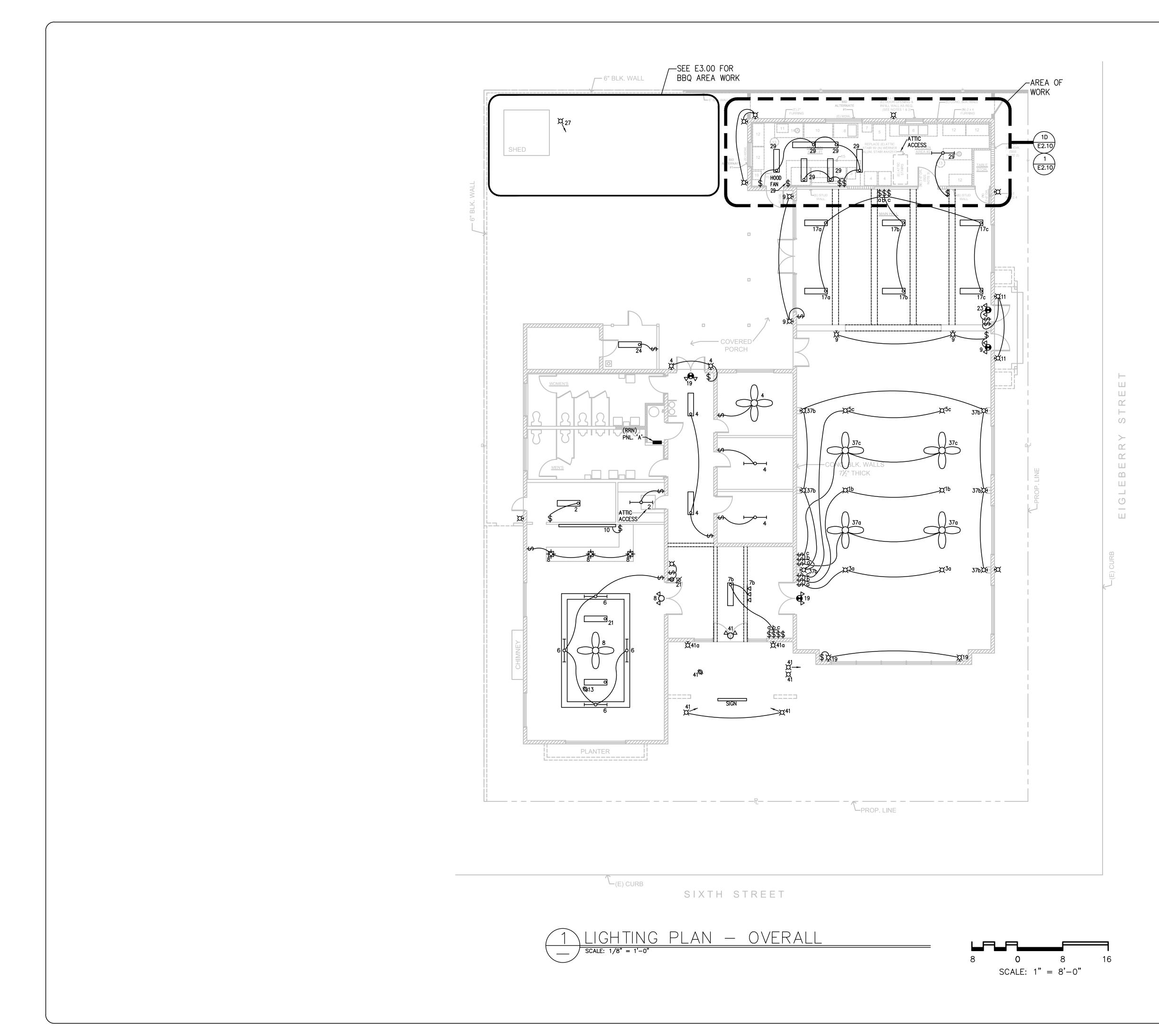
	ELECTRICAL DRAWING INDEX									
PG	SHEET	TITLE								
1	E0.00	ELECTRICAL INFORMATION SHEET								
2	E0.10	TITLE 24 INTERIOR								
3	E2.00	LIGHTING PLAN – OVERALL								
4	E2.10	LIGHTING PLAN – ENLARGED								
5	E3.00	POWER PLAN - OVERALL								
6	E3.10	POWER PLAN – ENLARGED								
7	E3.20	POWER PLAN – ATTIC								
8	E5.00	ONE-LINE								
9	E5.10	PANEL SCHEDULES								
10	E7.00	ELECTRICAL SPECIFICATIONS								



CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for progressidential and hotel/matel occurrancies. It is also used to document compliance with requirements in 160.5, 170.2(c) and 180.2(b)4 for indoor lighting scopes using the prescriptive	CERTIFICATE OF COMPLIANCE NRCC-LTI-E Project Name: Vets Hall Gilroy KITCHEN REMODEL Report Page: (Page 4 of 7) Date Prepared: 2024-01-31T13:26:40-05:00	CERTIFICATE OF COMPLIANCE Project Name: Vets Hall Gilroy KITCHEN REMODEL Report Page: (Page 7 of 7) Project Address: Date Prepared: 2024-01-31T13:26:40-05:00
nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities. Project Name: Vets Hall Gilroy KITCHEN REMODEL Report Page: (Page 1 of 7)	Date Prepared: 2024-01-31T13:26:40-05:00	Project Address: Date Prepared: 2024-01-31T13:26:40-05:00
Project Address: Net Prepared: Crage 1017)	H. INDOOR LIGHTING CONTROLS (Not including PAFs)	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
A. GENERAL INFORMATION	Area Level Controls 04 05 06 07 08 09 10 11 12	I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: David Smith, P.E.
01Project Location (city)gilroy04Total Conditioned Floor Area (ft2)451.5802Climate Zone405Total Unconditioned Floor Area (ft2)0	Area Description Complete Building or Area Complete Building or Area Controls Controls Contro	Company: CENTRAL PACIFIC ENGINEERING, INC
03 Occupancy Types Within Project (select all that apply): 06 # of Stories (Habitable Above Grade) 1 • Restaurant • Restaurant • Restaurant • Restaurant • Restaurant • Restaurant	Area DescriptionCategory Primary Function AreaControlsControlsControlsControlsDaylightingDaylightingSystemsFried inspector130.1(a) / 160.5(b)4A130.1(a) / 160.5(b)4B130.1(b) / 160.5(b)4C130.1(c) // 160.5(b)4DDaylighting 130.1(d) / 160.5(b)4DDaylighting 130.1(d) / 160.5(b)4DSystemsFried inspectorArea160.5(b)4A160.5(b)4B160.5(b)4B130.1(c) // 	Address: CEA/ HERS Certification Identification (if applicable): City/State/Zip: Phone:
	FOOD PREP 1 Kitchen/Food Preparation Readily Accessible Dimmer Occupancy Sensor NA: General Ltg < 120W No II	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.
B. PROJECT SCOPE This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or	FOOD PREP 2 Kitchen/Food Preparation Readily Accessible Dimmer Occupancy Sensor NA: General Ltg < 120W No II	 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) The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
141.0(b)2 / 180.2(b)4 for alterations. Scope of Work Conditioned Spaces Unconditioned Spaces	STORAGE Storage - MF common areas Readily Accessible NA: Enclosed area <100SF Occupancy Sensor NA: Not daylit zone NA: Not daylit zone NA: Not	 The L2, full a land fail to of the Cambridge actions. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable
01 02 03 04 05 My Project Consists of (check all that apply): Calculation Method Area (ft ²) Calculation Method Area (ft ²)	13 Plan Sheet Showing Daylit Zones:	inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. Responsible Designer Name: Responsible Designer Signature:
New Lighting System N/A 0 N/A 0 New Lighting System - Parking Garage N/A 0 N/A 0		David Smith, P.E. David Smith, P.E. Company: Date Signed: CENTRAL PACIFIC ENGINEERING, INC Date Signed:
☑ Altered Lighting System Area Category Method 451.58 N/A 0 Total Area of Work (ft ²) 451.58	I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per	Address: License: City/State/Zip: Phone:
	140.6(c) or adjustments per 140.6(a) are being used . Conditioned Spaces	
	01 02 03 04 05 06 Aura Description Complete Building or Area Category Primary Allowed Density Allowed Wattage Additional Allowance / Adjustment	
	Area DescriptionFunction AreaArea (atcgory Finnary (W/ft²)Area (ft²)Anowed Wattage (Watts)Area Category PAFFOOD PREP 1Kitchen/ Food Preparation0.95278.7264.77NoNo	
	FOOD PREP 2 Kitchen/ Food Preparation 0.95 187.6 178.22 No No STORAGE Storage - MF common areas 0.45 21.5 9.68 No No	
	TOTALS: 487.8 452.67 See Tables J, or P for detail	
Generated Date/Time: Documentation Software: Energy Code Ace	Generated Date/Time: Documentation Software: Energy Code Ace	Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 165832-0124-0006 Schema Version: rev 20220101 Report Generated: 2024-01-31 10:26:43	CA Building Energy Efficiency Standards - 2022 Nonresidential ComplianceReport Version: 2022.0.000Compliance ID: 165832-0124-0006Schema Version: rev 20220101Report Generated: 2024-01-31 10:26:43	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 165832-0124-0006 Schema Version: rev 20220101 Report Generated: 2024-01-31 10:26:43
state of california Indoor Lighting California Energy Commission	state of california Indoor Lighting California energy commission	
CERTIFICATE OF COMPLIANCE NRCC-LTI-E	CERTIFICATE OF COMPLIANCE NRCC-LTI-E	
Project Name: Vets Hall Gilroy KITCHEN REMODEL Report Page: (Page 2 of 7) Date Prepared: 2024-01-31T13:26:40-05:00	Project Name: Vets Hall Gilroy KITCHEN REMODEL Report Page: (Page 5 of 7) Date Prepared: 2024-01-31T13:26:40-05:00	
C. COMPLIANCE RESULTS If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.	J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM This section does not apply to this project.	
Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts) Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts) Compliance Results	K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE	
Lighting in conditioned and unconditioned 01 02 03 04 05 06 07 08 09 Area Area Area Adjustments Adjustments Adjustments	This section does not apply to this project.	
spaces must not be combined forCompleteAreaCategoryI alloredBuildingCategoryAdditional140.6(c)3 / 140.6(c)3	L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY	
compliance per 140.6(c)1 140.6(c)2 / 140.6(c)2 / 140.6(c)2 / 140.6(c)2 / 170.2(e)4B Allowed (Watts) (Watts) 140.6(a)2 / 170.2(e)1B *Includes 140.6(b)1 / 170.2(e) 170.2(e)4 170.2(e)4Av (+) (+) (Watts) 140.6(a)2 / 170.2(e)1B *Includes	This section does not apply to this project.	
(See Table I) (See Table I) (See Table J) (See Table K) (See Table F) (See Table P) (See Table P) Conditioned 452.67 ≤ 420 = 420 COMPLIES	M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING	
Unconditioned = ≥ = = ■ Controls Compliance (See Table H for Details) COMPLIES	This section does not apply to this project.	
Rated Power Reduction Compliance (See Table Q for Details)	N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS This section does not apply to this project.	
D. EXCEPTIONAL CONDITIONS		
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE This section does not apply to this project.	
E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))	
	This section does not apply to this project.	
	Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS	
	This section does not apply to this project.	
Generated Date/Time: Documentation Software: Energy Code Ace	Generated Date/Time: Documentation Software: Energy Code Ace	
CA Building Energy Efficiency Standards - 2022 Nonresidential ComplianceReport Version: 2022.0.000Compliance ID: 165832-0124-0006Schema Version: rev 20220101Report Generated: 2024-01-31 10:26:43	CA Building Energy Efficiency Standards - 2022 Nonresidential ComplianceReport Version: 2022.0.000Compliance ID: 165832-0124-0006Schema Version: rev 20220101Report Generated: 2024-01-31 10:26:43	
STATE OF CALIFORNIA	STATE OF CALIFORNIA	
Indoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTI-E	Indoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTI-E	
Project Name: Vets Hall Gilroy KITCHEN REMODEL Report Page: (Page 3 of 7) Date Prepared: 2024-01-31T13:26:40-05:00	Project Name: Vets Hall Gilroy KITCHEN REMODEL Report Page: (Page 6 of 7) Date Prepared: 2024-01-31T13:26:40-05:00	
F. INDOOR LIGHTING FIXTURE SCHEDULE This table includes all planned permanent and portable lighting other than dwelling unit/hotel/motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is	R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS	
documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.	This section does not apply to this project.	
Designed Wattage: Conditioned Spaces 01 02 03 04 05 06 07 08 09 10	S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF) This section does not apply to this project	
Name or Item Tag Complete Luminaire Description Modular (Track) Fixture Small Aperture & Color Changel Watts per luminaire ² How is Wattage determined Total Number of Luminaires Excluded per 140.6(a)3 / 170.2(e)2C Field Inspector	This section does not apply to this project.	
A1 CGTX 2X2 No NA 40 Mfr. Spec 10 No 400 I I	T. DWELLING UNIT LIGHTING This section does not apply to this project.	POFESSION
B1 STL2 No NA 20 Mfr. Spec 1 No 20 L Total Designed Watts: CONDITIONED SPACES 420	U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	SE GRANT OF THE
¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05. ² Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the	Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online	SI COL-EL-25
luminaire, not the lamp.	Form/Title	
G. MODULAR LIGHTING SYSTEMS	NRCI-LTI-E - Must be submitted for all buildings	OF CALIFORNIA
This section does not apply to this project.	V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	PROPRIETARY DATA
H. INDOOR LIGHTING CONTROLS (Not including PAFs) This table includes lighting controls for conditioned and unconditioned spaces.	Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html	
Building Level Controls 01 02 03	Form/Title Systems/Spaces To Be Field Verified	THE USE OF THE PLANS AND SPECIFICATIONS IS RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED, AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REUSE, REPRODUCTION OR PUBLICATION BY ANY METHOD IN WHOLE OR IN PART IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH CENTRAL PACIFIC ENGINEERING, INC., WHETHER THE PROJECT FOR WHICH THE PLANS AND SPECIFICATIONS IS EXECUTED OR NOT. AND VISUAL CONTACT WITH THEM CONSTITUTES PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTON. CENTRAL PACIFIC ENGINEERING, INC.
	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. FOOD PREP 1; FOOD PREP 2; STORAGE	PROJECT FOR WHICH THE PLANS AND SPECIFICATIONS IS EXECUTED OR NOT. AND VISUAL CONTACT WITH THEM CONSTITUTES PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTON.
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Mandatory Demand Response 110.12(c)		CENTRAL PACIFIC ENGINEERING, INC. COPYRIGHT 2024
Mandatory Demand Response 110.12(c) Shut-off controls 130.1(c) / 160.5(b)4C Pass Fail		COPYRIGHT 2024 ENGINEERING, INC.



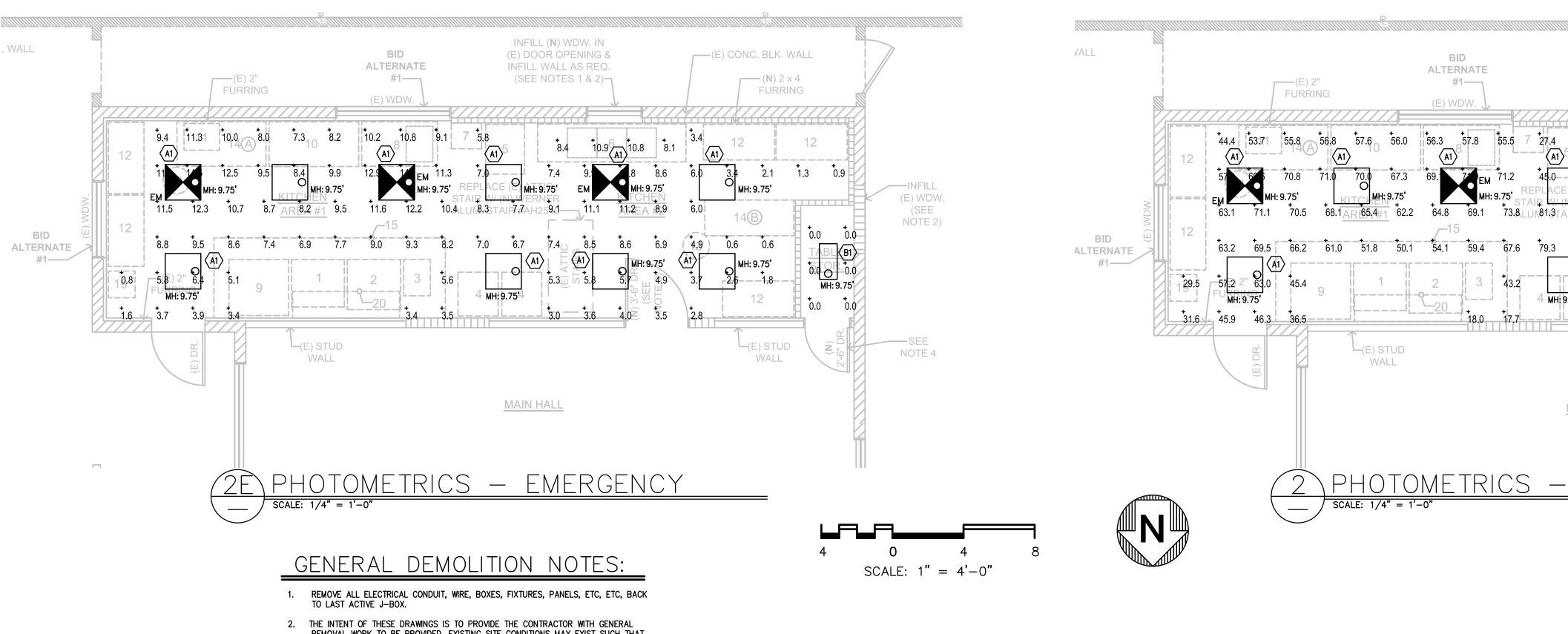
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ELECT 01-21-25DGS (408) 778-2525 fax (408) 683-4244 P.O. Box 1621 Morgan Hill, CA 95038 DAVCO ASSOCIATES architecture planning consultation DISTRICT MEMORIAL VALLEY KITCHEN REMODEL VETERAN'S HALL SOUTH SANTA CLARA V 74 WEST SIXTH ST. GILROY, CA DRAWN CHECKED DATE SCALE AS NOTED JOB NO. SHEET E0.10



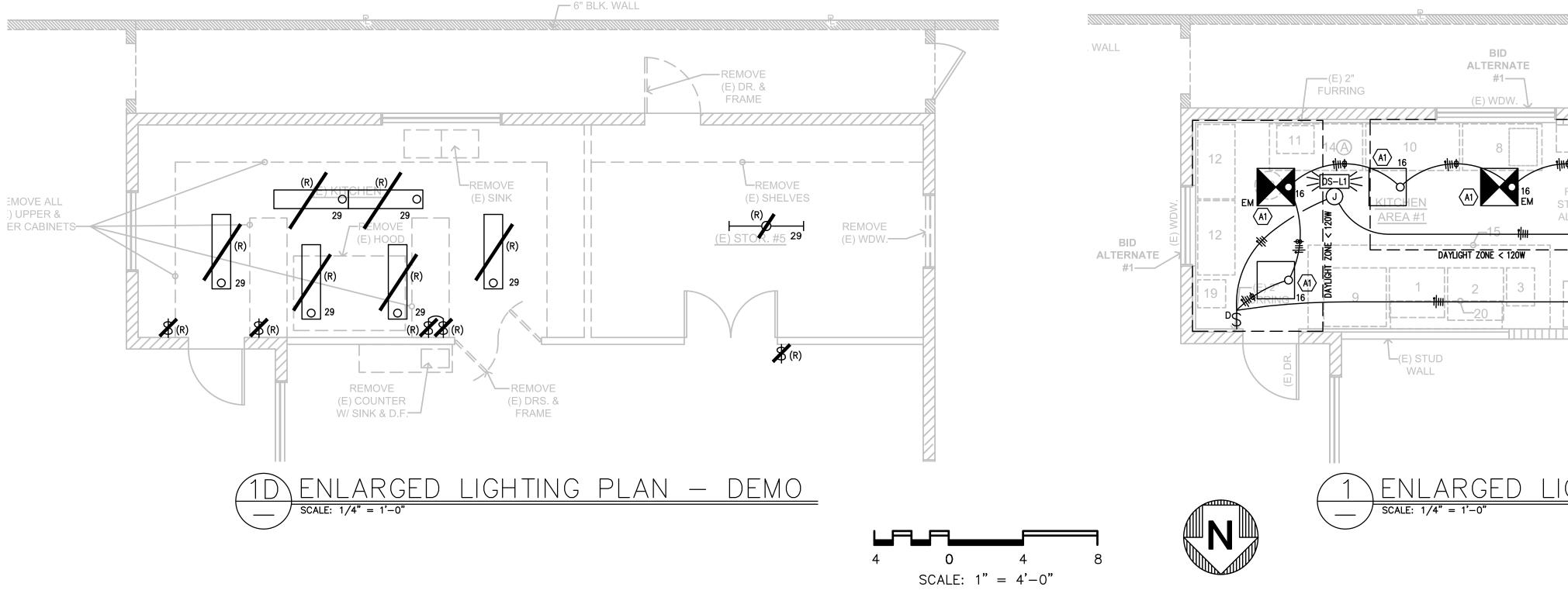
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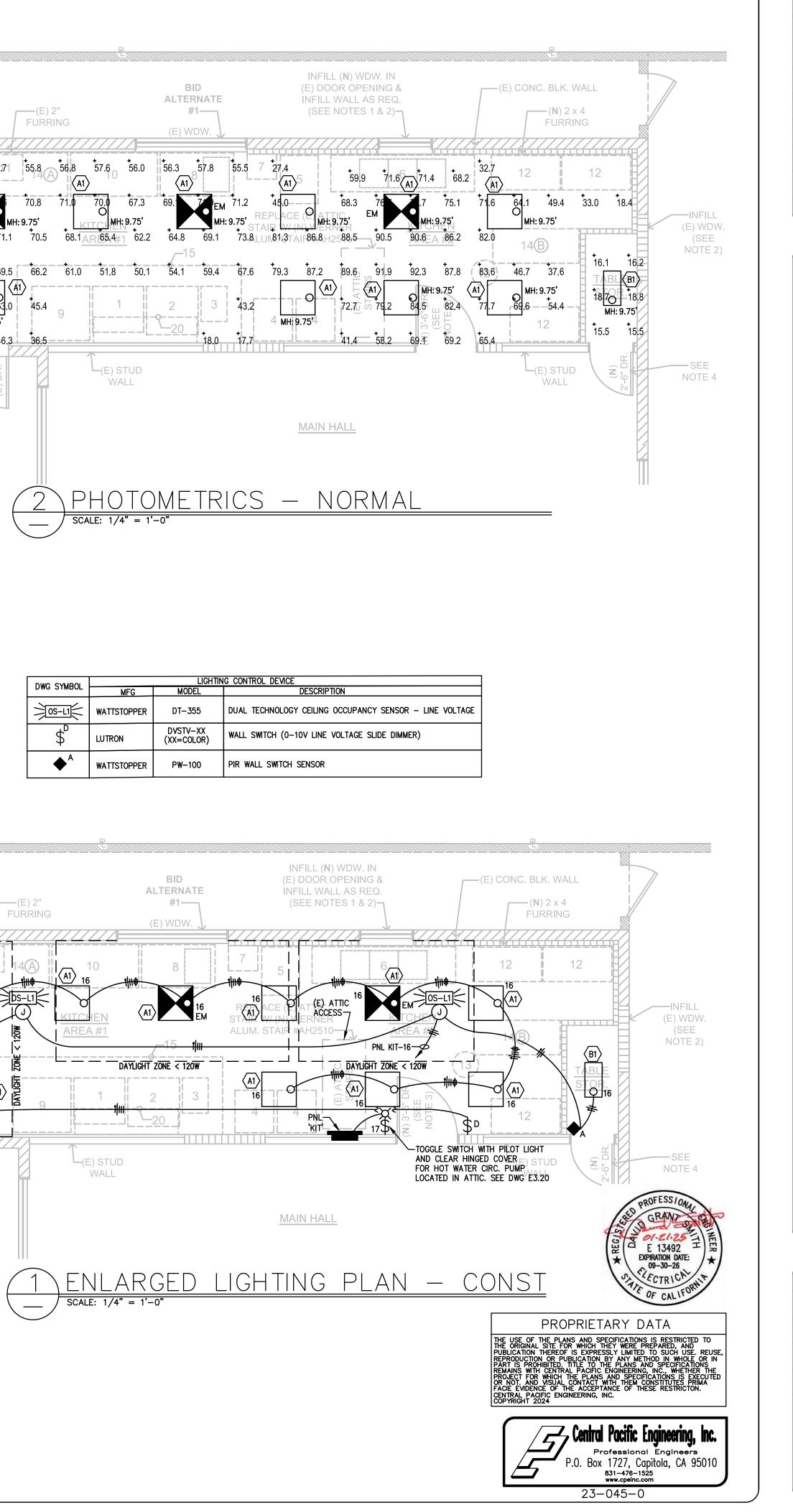


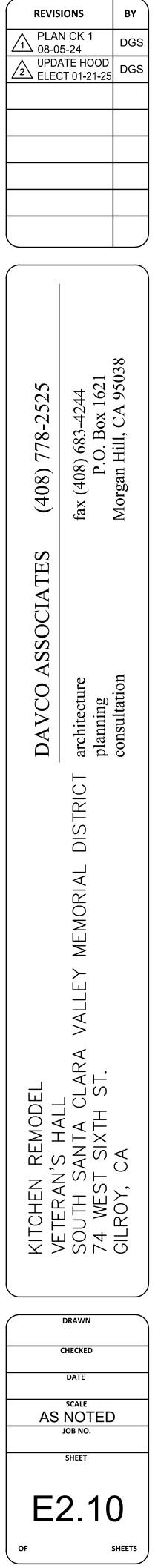


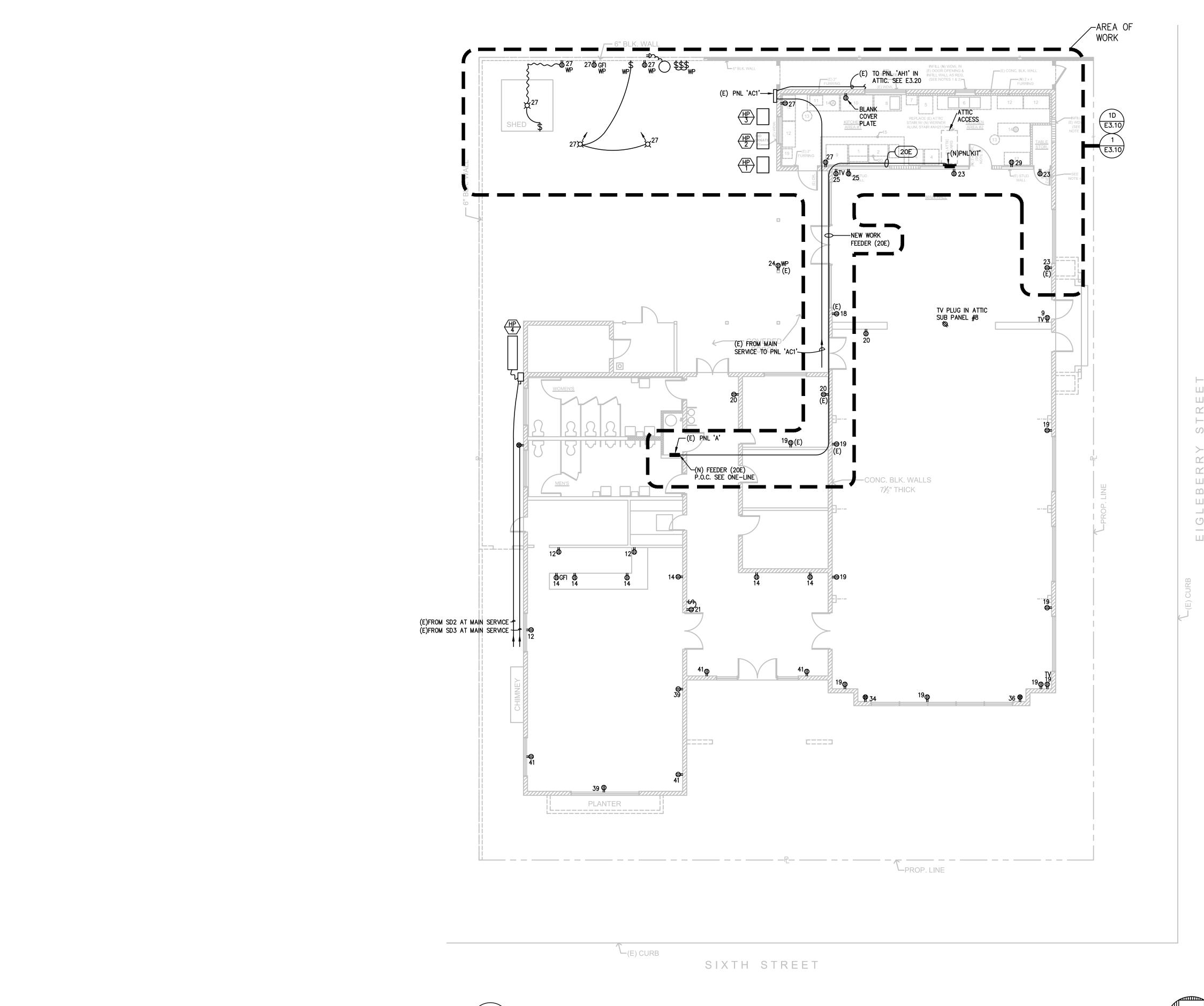
- REMOVAL WORK TO BE PROVIDED. EXISTING SITE CONDITIONS MAY EXIST SUCH THAT ACTUAL QUANTITIES ARE DIFERENT FROM THESE DOCUMENTS. THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS AT NO ADDITIONAL COST TO OWNER TO PROVIDE COMPLETE RENOVATION AS SHOWN WITHIN THESE AND ASSOCIATED CONSTRUCTION DOCUMENTS. ALL MAJOR ADJUSTMENTS SHALL BE PROVIDED TO THE ENGINEER IN WRITING FOR REVIEW AND COMMENT.
- 3. CONTRACTOR TO COORDINATE ALL DEMOLITION WORK WITH THE CONSTRUCTION WORK REQUIREMENTS.
- 4. CONTRACTOR TO REMOVE ALL UNUSED CONDUCTORS, CONDUITS AND ASSOCIATED HARDWARE.
- 5. CONTRACTOR TO REVIEW MECHANICAL AND OTHER CONSTRUCTION DRAWINGS FOR MECHANICAL AND OTHER EQUIPMENT TO BE REMOVED. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL TO THESE UNITS.



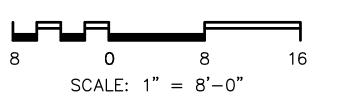
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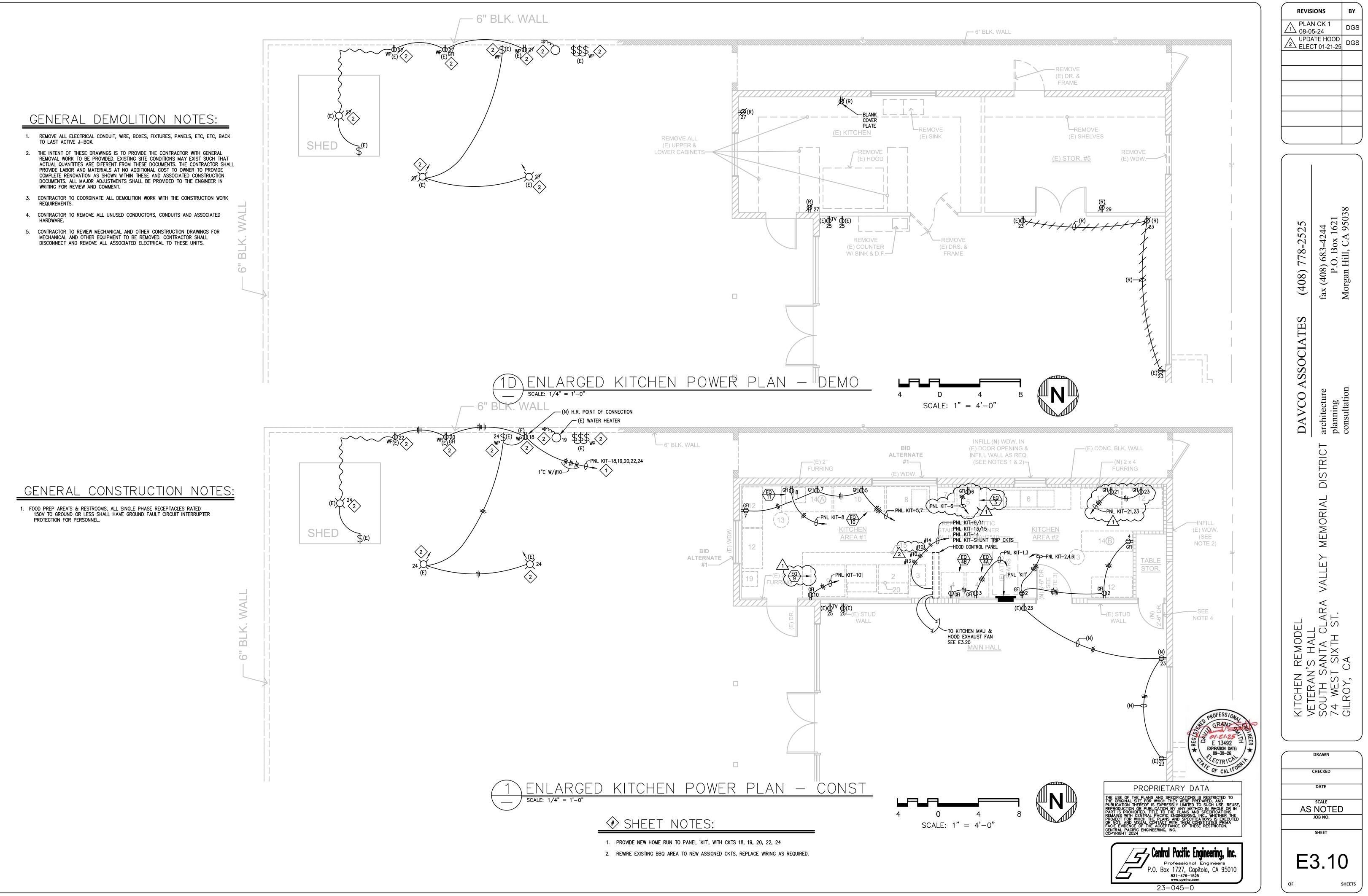
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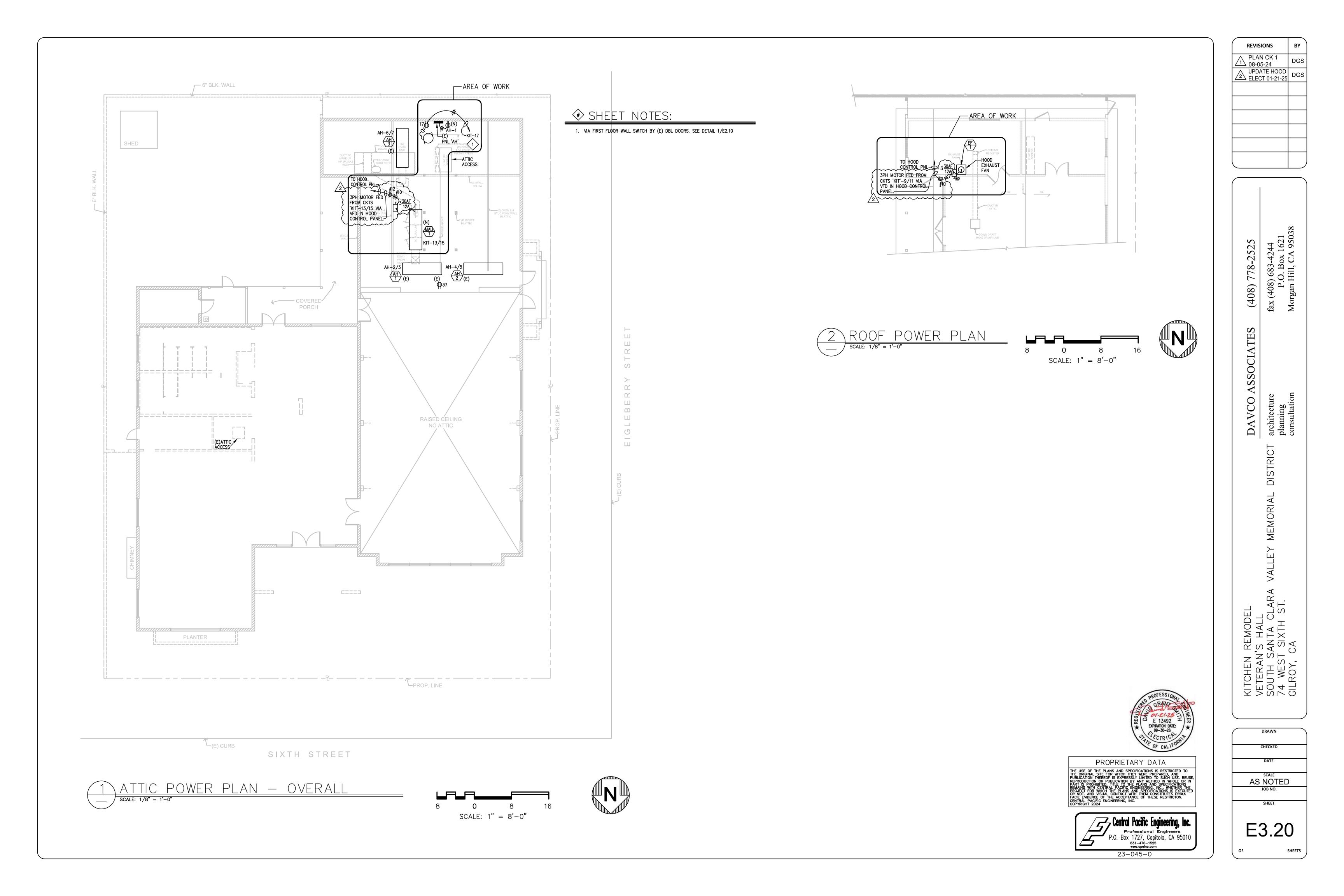
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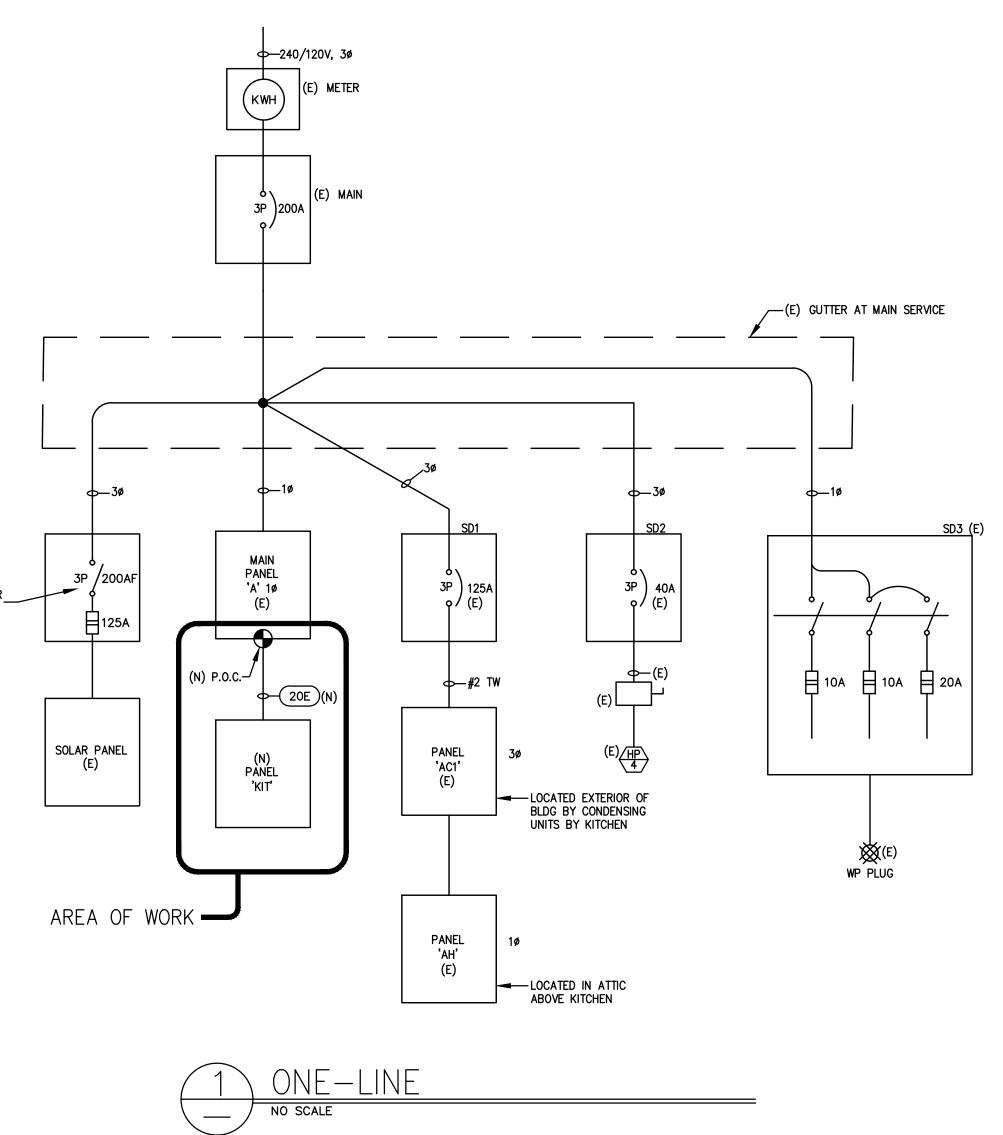






(E) SOLAR____ DISC.

			FEED	ER SCHEDULE	-		
	WIRE		CONI	TIUC			
MARK	SIZE	TYPE	SIZE	TYPE	Estimated Feeder Length	FEEDER SEGMENT VOLTAGE DROP (V)	FEEDER SEGMENT VOLTAGE DROP (%)
20E	3-#1CU + #6CU GND	THHN/THWN	2"	EMT	105	1.94	0.81%
NOTE: A	LL WIRE TO BE CU UNLESS OTHERWI	SE NOTED.					



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EXISTING PANELS

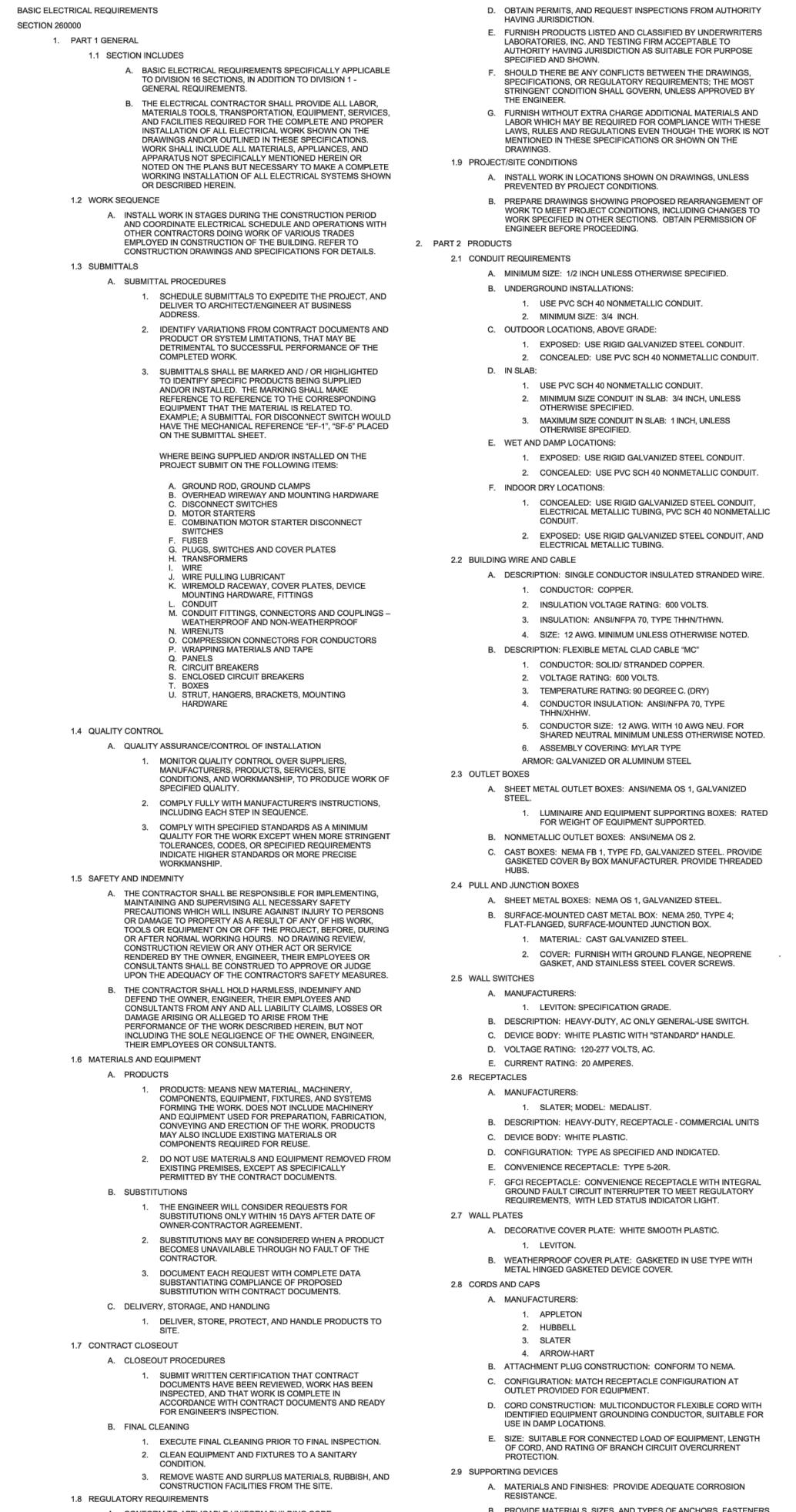
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	VOLTAGE: <u>120/240</u> BUS RATING SHORT CIR RATING: <u>22 KAIC</u>												GS			MOUNTING: <u>⊠ SURFACE</u> ⊠ FLUSH □ MAIN CIRCUIT BREAKER
													ED CIRC			
	DESCRIPTION	L L	R اد	VOLT	AMPS ØB	BRK.	CKT NO.	BUS	CONN.		BRK.	VOLT	AMPS ØB	¥	G	DESCRIPTION
	MAIN ROOM LIGHTS		⊐ ⊡ X	φA 200	<u>фв</u>	20			В	2	20	φA 180	фВ 			SECURITY PLUG & STORAGE LTS
	MAIN ROOM LIGHTS	,	×		200	_	3	1—		- 4	20		250			HALLWAY OFFICE STORAGE LIGHTS
	MAIN ROOM LIGHTS ENTRY LIGHTS		× ×	200	300	20 20	5			6	20 20	200	200			BAR LIGHTS BAR CAN LIGHTS
	DINING HALL TV RECEPT		$\frac{1}{x}$	250	300	20	9			- 8 - 10	20	40	200			BAR CAN LIGHTS BAR PLUG/ BOTTLE UPLIGHT
	EXISTING LOAD		×		500	20	11	1—	-+-	12	20		720			BAR ROOM PLUGS EXT. LTS.
	ATTIC SERVICE LIGHTS	;	×	150	700	20	13	┟┿╴	\pm	- 14	20	900	500	X		BAR / LOBBY PLUGS
	BACK BAR DINING HALL LIGHTS	;	X X	450	360	20 20	15 17			- 16 - 18	20 20	360	500	X		EXISTING LOAD DINING HALL REFER PLUG
	MAIN ROOM PLUGS & SCONCES		x x		1200	_	19	1—		- 20	20		360			OFFICE AND PLUG IN MAIN ROOM
	DISPLAY, LOBBY		X	600		20	21	╞┿╴		22	20	800		X		BACK BAR COOLERS
	BACK BAR RM PLUGS DINING HALL PLUGS		X X	720	180	20 20	23 25			24 26	20 20	180	360	X		OUTSIDE REFER PLUG AND GFI BACK BAR PLUG
	BBQ KITCHEN PLUGS		X		640	_	27	1—		- 28	20		1800			ICE MACHINE OUTSIDE
	KITCHEN LIGHTS	;	×	600	500	20	29	╎┿╴		- 30				\square		SPACE
	EXIST LOAD EXIST LOAD		X X	500	500	20 20	31 33			- <u>32</u> - 34	20	360		x		SPACE DEDICATED PLUGS FOR A/V
	BACK BAR RM PLUG		X	_	180	20	35	╢		- 36	20		360	_		DEDICATED PLUGS FOR A/V
	MAIN ROOM FANS		X	800		20	37	┠┿╴		- 38	20	200				RESTROOM LIGHTING
	FRONT BAR WALL PLUGS FRONT BAR WALL PLUGS & FRONT EXT LT		X X X	1600	1600	20 20	39 41			- 40 - 42	20	500		$\left \right\rangle$		SPACE EXISTING LOAD
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new work—	TOTALS BUS A 19.5 KVA BUS B 20.9 KVA BUS B 20.9 KVA TOTAL 40.4 KVA PANEL NAME: (E) AH VOLTAGE: 240 BUS RATING: 10 KAIC O.C. DEVICES: BOLT-ON DESCRIPTION DESCRIPTION ATTIC SERVICE RECEPT AH1 AH1 AH2 AH3 AH3	G: <u>100</u> BUS		15765 <u>COL</u> IER { ⊠ □ ATION: <u> </u> PE: <u>□</u> VOLT ΦA 240 900 900	16349 <u>OR</u> ANSI 6 ANSI 4 OTHER: (ITCHEN PHASE COPPER CE FAMI AMPS ØB 900	61 LT (49 DK :: 2W 2W 1LY: BRK. 20 15 15 15	GRAY GRAY WRE + ALUMI CKT NO. 1 2 3 4 5 6		DOOR KEYE OTHE	R-IN-D D LATO R: PANEL ENCLOS	TYPE: SURE T PR: X M	⊥	NAME P 1/4" WHITE SCREV IEL BOA	LATE LETT LETT WMC	ES TERS TTEF OUN	S GROUND BAR RS ON BLACK I PNL. DIRECTOR ITED ISO GROUND B ISO GROUND BAR ISO GROUND B ISO GROUND B
NEW WORK—	TOTALS BUS A 19.5 KVA BUS B 20.9 KVA BUS B 20.9 KVA ACCI TOTAL 40.4 KVA TOTAL 40.4 KVA PANEL NAME: (E) AH VOLTAGE: 240 BUS RATINC SHORT CIR RATING: 10 KAIC O.C. DEVICES: BOLT-ON DESCRIPTION XIP ATTIC SERVICE RECEPT AH1 AH1 AH2	G: <u>100</u> BUS		15765 <u>COL</u> IER { ⊠ □ ATION: _ _ PE: _ _ DEVIO VOLT ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	16349 <u>DR</u> ANSI 6 ANSI 4 OTHER: KITCHEN PHASE COPPER CE FAMI AMPS ØB 900 900	61 LT (49 DK :: A ATTIC 2_ W 2_ W 1LY: BRK. 20 15 15 	GRAY GRAY WIRE + ALUMI ALUMI CKT NO. 1 2 3 4 5		DOOR KEYE OTHE	R-IN-D D LATO R: PANEL ENCLOS	TYPE: SURE T PR: X M	⊥	NAME P 1/4" WHITE SCREV IEL BOA	LATE LETT LETT WMC	ES TERS TTEF OUN	S GROUND BAR RS ON BLACK I PNL. DIRECTOR ITED ISO GROUND B ISO GROUND BAR ISO GROUND B ISO GROUND B
NEW WORK—	TOTALS BUS A 19.5 KVA BUS B 20.9 KVA BUS B 20.9 KVA ACCI TOTAL 40.4 KVA TOTAL 40.4 KVA PANEL NAME: (E) AH VOLTAGE: 240 BUS RATINO SHORT CIR RATING: 10 KAIC O.C. DEVICES: BOLT-ON DESCRIPTION XIP AH1 AH2 AH3 AH3	G: <u>100</u> BUS		15765 <u>COL</u> IER { ⊠ □ ATION: <u>1</u> PE: <u>□</u> 0 1 VOLT ΦA 240 900 900 900	16349 <u>DR</u> ANSI 6 ANSI 4 OTHER: KITCHEN PHASE COPPER CE FAMI AMPS ØB 900 900	61 LT (49 DK :: 2W 2W 2W 1LY: BRK. 20 15 15 15 15 15 	GRAY GRAY WRE + ALUMI CKT NO. 1 2 3 4 5 6 7		DOOR KEYE OTHE	R-IN-D D LATO R: PANEL ENCLOS	TYPE: SURE T PR: X M	⊥	NAME P 1/4" WHITE SCREV IEL BOA	LATE LETT LETT WMC	ES TERS TTEF OUN	S GROUND BAR RS ON BLACK I PNL. DIRECTOR ITED ISO GROUND B ISO GROUND BAR ISO GROUND B ISO GROUND B
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NEW WORK—	TOTALS BUS A19.5 KVA BUS B20.9 KVA TOTAL 40.4 KVA TOTAL 40.4 KVA PANEL NAME: (E) AH VOLTAGE: 240 BUS RATINO SHORT CIR RATING: 10 KAIC O.C. DEVICES:BOLT-ON IMP DESCRIPTION ATTIC SERVICE RECEPT AH1 AH2 AH2 AH2 AH2 AH3 AH2 AH2 AH2 AH3 BUS A	G: _ 100 BUS PLUG_O [G:125 BUS PLUG_O		15765	16349 DR ANSI 6 ANSI 4 OTHER: KITCHEN PHASE COPPER ZE FAMI AMPS ØB 900 </td <td>61 LT C 49 DK 2 DK 2 W 2 W 2 W 2 W 2 M 2 M 2 M 2 M 3 M 4 M 2 M 3 M 4 M 2 M 3 M 4 M 2 M 3 M 4 M 3 M 4 M 3 M 4 M 3 M 4 M 3 M 3 M 4 M 3 M 3 M 4 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3</td> <td>GRAY GRAY WIRE + ALUMI CKT NO. 1 2 3 4 5 6 7 8 8 7 8 8</td> <td>GND. A BUS A GND. A GND. NUM</td> <td>DOOF KEYE OTHE</td> <td></td> <td></td> <td></td> <td>VAME P 1/4" WHITE SCREV IEL BOA MA 1 GS ED CIRC IEL BOA MA 3R IGS ED CIRC</td> <td></td> <td></td> <td>S GROUND BAR RS ON BLACK GROUND BAR PNL. DIRECTOR ISO GROUND B ISO GROUNTING: ISO SURFACE FLUSH IN CIRCUIT BREAKER - SEE ONE LINE ISO GROUNTING: ISO SURFACE FLUSH ISO SURFACE FLUSH ISO</td>	61 LT C 49 DK 2 DK 2 W 2 W 2 W 2 W 2 M 2 M 2 M 2 M 3 M 4 M 2 M 3 M 4 M 2 M 3 M 4 M 2 M 3 M 4 M 3 M 4 M 3 M 4 M 3 M 4 M 3 M 3 M 4 M 3 M 3 M 4 M 3	GRAY GRAY WIRE + ALUMI CKT NO. 1 2 3 4 5 6 7 8 8 7 8 8	GND. A BUS A GND. A GND. NUM	DOOF KEYE OTHE				VAME P 1/4" WHITE SCREV IEL BOA MA 1 GS ED CIRC IEL BOA MA 3R IGS ED CIRC			S GROUND BAR RS ON BLACK GROUND BAR PNL. DIRECTOR ISO GROUND B ISO GROUNTING: ISO SURFACE FLUSH IN CIRCUIT BREAKER - SEE ONE LINE ISO GROUNTING: ISO SURFACE FLUSH ISO SURFACE FLUSH ISO
NEW WORK—	TOTALS BUS A 19.5 KVA ACC BUS B 20.9 KVA	G: _ 100 BUS PLUG_O [G:125 BUS PLUG_O		15765	16349 DR ANSI 6 ANSI 4 OTHER: KITCHEN PHASE COPPER ZE FAMI AMPS ØB 900 </td <td>61 LT C 49 DK 2 DK 2 W 2 W 2 W 2 W 2 M 2 M 2 M 2 M 3 M 4 M 2 M 3 M 4 M 2 M 3 M 4 M 2 M 3 M 4 M 3 M 4 M 3 M 4 M 3 M 4 M 3 M 4 M 3 M 3 M 4 M 3 M 3 M 4 M 3 M 3 M 4 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3</td> <td>GRAY GRAY WRE + ALUMI 2 3 4 5 6 7 8 8 WRE + ALUMI</td> <td>GND. A BUS A GND. MUM GND. NUM BUS</td> <td>DOOF KEYE OTHE</td> <td></td> <td></td> <td></td> <td>VAME P 1/4" WHITE SCREV IEL BOA MA 1 GS ED CIRC IEL BOA MA 3R IGS ED CIRC</td> <td></td> <td></td> <td>S GROUND BAR RS ON BLACK GROUND BAR PNL. DIRECTOR ISO GROUND B ISO GROUNTING: ISO SURFACE FLUSH IN CIRCUIT BREAKER - SEE ONE LINE ISO GROUNTING: ISO SURFACE FLUSH ISO SURFACE FLUSH ISO</td>	61 LT C 49 DK 2 DK 2 W 2 W 2 W 2 W 2 M 2 M 2 M 2 M 3 M 4 M 2 M 3 M 4 M 2 M 3 M 4 M 2 M 3 M 4 M 3 M 4 M 3 M 4 M 3 M 4 M 3 M 4 M 3 M 3 M 4 M 3 M 3 M 4 M 3 M 3 M 4 M 3	GRAY GRAY WRE + ALUMI 2 3 4 5 6 7 8 8 WRE + ALUMI	GND. A BUS A GND. MUM GND. NUM BUS	DOOF KEYE OTHE				VAME P 1/4" WHITE SCREV IEL BOA MA 1 GS ED CIRC IEL BOA MA 3R IGS ED CIRC			S GROUND BAR RS ON BLACK GROUND BAR PNL. DIRECTOR ISO GROUND B ISO GROUNTING: ISO SURFACE FLUSH IN CIRCUIT BREAKER - SEE ONE LINE ISO GROUNTING: ISO SURFACE FLUSH ISO SURFACE FLUSH ISO
NEW WORK—	TOTALSBUS A 19.5 KVA BUS B 20.9 KVA TOTAL 40.4 KVAACCTOTAL 40.4 KVAPANEL NAME: (E) AH VOLTAGE: 240 BUS RATING SHORT CIR RATING: 10 KAIC O.C. DEVICES: $\square BOLT - ON$ IMP DESCRIPTIONDESCRIPTIONATTIC SERVICE RECEPTAH1 AH1 AH2 AH2 AH3AH1 AH2 AH3ATTIC SERVICE RECEPTAH1 AH1 AH2 AH2 AH3OTALS BUS A 3.0 KVA BUS B 2.7 KVA TOTAL 5.7 KVAPANEL NAME: (E) AC1 VOLTAGE: 240/120 BUS RATING SHORT CIR RATING:			15765 COL IER { X Δ	16349 DR ANSI 6 ANSI 4 OTHER PHASE COPPER CE AMPS ØB 900 <t< td=""><td>61 LT C 49 DK 2 DK 2 W 2 W 2 W 2 W 2 M 2 M 2 M 2 M 3 M 4 M 2 M 3 M 4 M 2 M 3 M 4 M 2 M 3 M 4 M 3 M 4 M 3 M 4 M 3 M 4 M 3 M 4 M 3 M 3 M 4 M 3 M 3 M 4 M 3 M 3 M 4 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3 M 3</td><td>GRAY GRAY WRE + ALUMI 2 3 4 5 6 7 8 8 WRE + ALUMI</td><td>GND. A BUS A GND. MUM GND. NUM BUS</td><td>DOOF KEYE OTHE</td><td></td><td></td><td></td><td>VAME P 1/4" WHITE SCREV IEL BOA MA 1 GS ED CIRC IEL BOA MA 3R IGS ED CIRC</td><td></td><td></td><td>S GROUND BAR RS ON BLACK GROUND BAR PNL. DIRECTOR ISO GROUND B ISO GROUNTING: ISO SURFACE FLUSH IN CIRCUIT BREAKER - SEE ONE LINE ISO GROUNTING: ISO SURFACE FLUSH ISO SURFACE FLUSH ISO</td></t<>	61 LT C 49 DK 2 DK 2 W 2 W 2 W 2 W 2 M 2 M 2 M 2 M 3 M 4 M 2 M 3 M 4 M 2 M 3 M 4 M 2 M 3 M 4 M 3 M 4 M 3 M 4 M 3 M 4 M 3 M 4 M 3 M 3 M 4 M 3 M 3 M 4 M 3 M 3 M 4 M 3	GRAY GRAY WRE + ALUMI 2 3 4 5 6 7 8 8 WRE + ALUMI	GND. A BUS A GND. MUM GND. NUM BUS	DOOF KEYE OTHE				VAME P 1/4" WHITE SCREV IEL BOA MA 1 GS ED CIRC IEL BOA MA 3R IGS ED CIRC			S GROUND BAR RS ON BLACK GROUND BAR PNL. DIRECTOR ISO GROUND B ISO GROUNTING: ISO SURFACE FLUSH IN CIRCUIT BREAKER - SEE ONE LINE ISO GROUNTING: ISO SURFACE FLUSH ISO SURFACE FLUSH ISO
NEW WORK—	TOTALSBUS A 19.5 KVA BUS B 20.9 KVA TOTAL 40.4 KVAACCTOTAL 40.4 KVAPANEL NAME: (E) AH VOLTAGE: 240 BUS RATING SHORT CIR RATING: 10 KAIC O.C. DEVICES: $\square BOLT-ON$ IP DESCRIPTIONATTIC SERVICE RECEPTAH1AH1AH2AH1AH2AH2AH2AH2AH2AH3BUS A 3.0 KVA BUS B 2.7 KVATOTALSBUS A 3.0 KVA BUS B 2.7 KVAPANEL NAME: (E) AC1 VOLTAGE: 240/120 BUS RATING SHORT CIR RATING: O.C. DEVICES: $\square BOLT-ON$ IPDESCRIPTIONHP1HP1	G: _ 100 BUS PLUG_O [[] _]		15765 COL IER { X Δ	16349 DR ANSI 6 ANSI 4 OTHER: PHASE COPPER ZE FAMI AMPS ØB 900 900 900 900 900 900 2700 10 PHASE COPPER COPPER AMPS AMPS AMPS QC 900	61 LT (49 DK 2 DK 2 V 2 V 2 V 1LY: BRK. 20 15 	GRAY GRAY GRAY WRE + ALUMI 2 3 4 5 6 7 8 7 8 8 7 8 7 8 7 8 7 8 7 8 7 1 2 3 4 5 6 7 8 7 8 7 1 2 1 2 3 4 5 6 7 8 7 1 2 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1	GND. A BUS A GND. MUM GND. NUM BUS	DOOF KEYE OTHE				ILL BOA			S ON BLACK GROUND BAR RS ON BLACK PNL. DIRECTOR ISO GROUND B LOAD CENTER MOUNTING: SURFACE FLUSH MAIN CIRCUIT BREAKER EAKER I LOAD CENTER MOUNTING: SURFACE V CONSTRUCTION LOAD CENTER MOUNTING: SURFACE FLUSH IN CIRCUIT BREAKER – SEE ONE LINE EAKER – SEE ONE LINE DESCRIPTION HP3 HP3
NEW WORK—	TOTALSBUS A 19.5 KVA BUS B 20.9 KVA TOTAL 40.4 KVAACCPANEL NAME: (E) AHVOLTAGE: 240 BUS RATING SHORT CIR RATING: 10 KAIC O.C. DEVICES: $\square BOLT - ON$ $\square P$ DESCRIPTIONAH1AH1AH1AH1AH2AH1AH2AH1AH2AH2AH2AH3AH2DESCRIPTIONPACETOTAL 5.7 KVADESCRIPTIONAP2DESCRIPTION<	G: 100 BUS p_LUGO G: 125 G: 125 G: 125 DUGO DUGO X X X X		15765 COL IER { [X] IER { [X] ATION: [16349 DR ANSI 6 ANSI 4 OTHER PHASE COPPER CE AMPS ØB 900 <t< td=""><td>61 LT (49 DK 31 LT (49 DK 32 W 2 W 2 W 2 W 2 W 2 W 2 W 2 W</td><td>GRAY GRAY GRAY ////////////////////////////////////</td><td>GND. A BUS A GND. MUM GND. NUM BUS</td><td>DOOF KEYE OTHE</td><td>PANEL PANEL ENCLOS NTERIO PANEL ENCLOS NTERIO PANEL ENCLOS INTERIO PANEL ENCLOS</td><td></td><td></td><td>VAME P 1/4" WHITE SCREV WHITE SCREV IEL BOA MA 1 GS ED CIRC IEL BOA MA 3R IEL BOA MA 3R IGS ED CIRC T • AMF QB 3456</td><td></td><td></td><td>S ON BLACK OPNL. DIRECTOR ISO GROUND BA ISO GROUND B ISO GROUND B IS</td></t<>	61 LT (49 DK 31 LT (49 DK 32 W 2 W 2 W 2 W 2 W 2 W 2 W 2 W	GRAY GRAY GRAY ////////////////////////////////////	GND. A BUS A GND. MUM GND. NUM BUS	DOOF KEYE OTHE	PANEL PANEL ENCLOS NTERIO PANEL ENCLOS NTERIO PANEL ENCLOS INTERIO PANEL ENCLOS			VAME P 1/4" WHITE SCREV WHITE SCREV IEL BOA MA 1 GS ED CIRC IEL BOA MA 3R IEL BOA MA 3R IGS ED CIRC T • AMF QB 3456			S ON BLACK OPNL. DIRECTOR ISO GROUND BA ISO GROUND B ISO GROUND B IS
NEW WORK—	TOTALSBUS A 19.5 KVA BUS B 20.9 KVA TOTAL 40.4 KVAACCTOTAL 40.4 KVAPANEL NAME: (E) AH VOLTAGE: 240 BUS RATING SHORT CIR RATING: 10 KAIC O.C. DEVICES: $\square BOLT-ON$ IP DESCRIPTIONATTIC SERVICE RECEPTAH1AH1AH2AH1AH2AH2AH2AH2AH2AH3BUS A 3.0 KVA BUS B 2.7 KVATOTALSBUS A 3.0 KVA BUS B 2.7 KVAPANEL NAME: (E) AC1 VOLTAGE: 240/120 BUS RATING SHORT CIR RATING: O.C. DEVICES: $\square BOLT-ON$ IPDESCRIPTIONHP1HP1	G: 100 BUS p_LUGO G: 125 G: 125 G: 125 DUGO DUGO X X X X		15765 COL IER { [X] IER { [X] ATION: [16349 DR ANSI 6 ANSI 4 OTHER: PHASE COPPER ZE FAMI AMPS ØB 900 900 900 900 900 900 2700 10 PHASE COPPER COPPER AMPS AMPS AMPS QC 900	61 LT (49 DK 2 DK 2 V 2 V 2 V 1LY: BRK. 20 15 	GRAY GRAY GRAY WRE + ALUMI 2 3 4 5 6 7 8 7 8 8 7 8 7 8 7 8 7 8 7 8 7 1 2 3 4 5 6 7 8 7 8 7 1 2 1 2 3 4 5 6 7 8 7 1 2 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1	GND. A BUS A GND. MUM GND. NUM BUS	DOOF KEYE OTHE				VAME P 1/4" WHITE SCREV WHITE SCREV IEL BOA MA 1 GS ED CIRC IEL BOA MA 3R IEL BOA MA 3R IGS ED CIRC T • AMF QB 3456			S ON BLACK GROUND BAR RS ON BLACK PNL. DIRECTOR ISO GROUND B LOAD CENTER MOUNTING: SURFACE FLUSH MAIN CIRCUIT BREAKER EAKER I LOAD CENTER MOUNTING: SURFACE V CONSTRUCTION LOAD CENTER MOUNTING: SURFACE FLUSH IN CIRCUIT BREAKER – SEE ONE LINE EAKER – SEE ONE LINE DESCRIPTION HP3 HP3
NEW WORK—	TOTALSBUS A 19.5 KVABUS B 20.9 KVATOTAL 40.4 KVATOTAL 40.4 KVAPANEL NAME: (E) AHVOLTAGE: 240 BUS RATING:SPACEDESCRIPTIONMITIC SERVICE RECEPTAH1AH1AH1AH1AH2AH3SPACETOTALSBUS A 3.0 KVABUS A 3.0 KVABUS A 3.0 KVABUS A 3.0 KVABUS B 2.7 KVATOTALSPANEL NAME: (E) AC1VOLTAGE: 240/120 BUS RATINGSHORT CIR RATING: O.C. DEVICES: [BOLT-ON IMPDESCRIPTIONHP1HP1HP2SPACE	G: 100 BUS P_LUG - 0 G: 125 G: 125 G: 125 	ES: EITH EITH LOC/ S TY N X X X X X X X X X X X X X X	15765 COL LER MIER Δ ATION: 1 PE: Q 900 0 0 0 0 0 0 0	16349 <u>OR</u> ANSI 6 ANSI 4 OTHER: COPPER CE FAMI AMPS 900 900 900 900 900 900 000 900 000 900 000 900 000 900 000 900 000 900 000 900 000 9	61 LT (49 DK 2 DK 2 W 2 W 2 W 2 W 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M	GRAY GRAY GRAY WRE + ALUMI 2 3 4 5 6 7 8 7 8 8 WRE + ALUMI KRE + 1 ALUMI 5 6 7 8 7 8 7 7 8	GND. A BUS A GND. MUM GND. NUM BUS	DOOF KEYE OTHE	PANEL ENCLOS NTERIO		Image: Image	VAME P 1/4" WHITE SCREV VEL BOA MA 1 GS ED CIRC V V V V V V V V V V V V V			S ON BLACK S PNL. DIRECTOR ISO GROUND B ISO GROUND B
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NEW WORK—	TOTALS BUS A 19.5 KVA BUS B 20.9 KVA TOTAL 40.4 KVA PANEL NAME: (E) AH VOLTAGE: 240 BUS RATING: 10 KAIC O.C. DEVICES: BOLT-ON DESCRIPTION ATTIC SERVICE RECEPT AH1 AH2 AH3 AH3 SPACE TOTAL TOTALS BUS A BUS A 3.0 KVA BUS B 2.7 KVA TOTAL 5.7 KVA DESCRIPTION DESCRIPTION PANEL NAME: (E) AC1 VOLTAGE: 240/120 BUS RATING O.C. DEVICES: BUS LONG DESCRIPTION DESCRIPTION HP1 HP1 HP2 SPACE SPACE SPACE SPACE S	G: 100 BUS PLUG-0 FLUG-0 G: 125 G: 125 BUS PLUG-0 G: 125 C C C C C C C C C C C C C	ES: EITH EITH LOC/ S TY N X X X X X X X X X X X X X X	15765 COL LER MIER Δ <t< td=""><td>16349 <u>OR</u> ANSI 6 ANSI 4 OTHER: COPPER CE FAMI AMPS 900 900 900 900 900 900 000 900 000 900 000 900 000 900 000 900 000 900 000 900 000 9</td><td>61 LT (49 DK 2 DK 2 W 2 W 2 W 2 W 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M</td><td>GRAY GRAY GRAY MRE + ALUMI CKT NO. 1 2 3 4 5 6 7 8 8 7 8 8 4 5 6 7 8 8 7 8 7 1 1 2 3 4 5 6 7 1 2 3 4 5 5 7 9 11</td><td>GND. A BUS A GND. MUM GND. NUM BUS</td><td>DOOF KEYE OTHE I CONN. B CONN. B CONN. B C CONN. B C</td><td>PANEL PANEL ENCLOS NTERIO PANEL ENCLOS NTERIO PANEL ENCLOS INTERIO PANEL ENCLOS INTERIO PANEL ENCLOS INTERIO</td><td></td><td>Image: Image: Image</td><td>VAME P 1/4" WHITE SCREV VEL BOA MA 1 GS ED CIRC V V V V V V V V V V V V V</td><td></td><td></td><td>S ON BLACK OF PNL. DIRECTOR ISO GROUND BA ISO GROUND B ISO GROUND B</td></t<>	16349 <u>OR</u> ANSI 6 ANSI 4 OTHER: COPPER CE FAMI AMPS 900 900 900 900 900 900 000 900 000 900 000 900 000 900 000 900 000 900 000 900 000 9	61 LT (49 DK 2 DK 2 W 2 W 2 W 2 W 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M	GRAY GRAY GRAY MRE + ALUMI CKT NO. 1 2 3 4 5 6 7 8 8 7 8 8 4 5 6 7 8 8 7 8 7 1 1 2 3 4 5 6 7 1 2 3 4 5 5 7 9 11	GND. A BUS A GND. MUM GND. NUM BUS	DOOF KEYE OTHE I CONN. B CONN. B CONN. B C CONN. B C	PANEL PANEL ENCLOS NTERIO PANEL ENCLOS NTERIO PANEL ENCLOS INTERIO PANEL ENCLOS INTERIO PANEL ENCLOS INTERIO		Image: Image	VAME P 1/4" WHITE SCREV VEL BOA MA 1 GS ED CIRC V V V V V V V V V V V V V			S ON BLACK OF PNL. DIRECTOR ISO GROUND BA ISO GROUND B ISO GROUND B

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- A. CONFORM TO APPLICABLE UNIFORM BUILDING CODE.
- B. CONFORM TO NFPA 70.
- C. CONFORM TO LOCAL ORDINANCES AND REGULATIONS.
- B. PROVIDE MATERIALS, SIZES, AND TYPES OF ANCHORS, FASTENERS AND SUPPORTS TO CARRY THE LOADS OF EQUIPMENT AND CONDUIT. CONSIDER WEIGHT OF WIRE IN CONDUIT WHEN SELECTING PRODUCTS.

C. ANCHORS AND FASTENERS:

- CONCRETE STRUCTURAL ELEMENTS: USE PRECAST INSERT SYSTEM, EXPANSION ANCHORS, POWDER ACTUATED ANCHORS AND PRESET INSERTS.
- 2. CONCRETE SURFACES: USE SELF-DRILLING ANCHORS
- AND EXPANSION ANCHORS. 3. HOLLOW MASONRY, PLASTER, AND GYPSUM BOARD
- PARTITIONS: USE TOGGLE BOLTS AND HOLLOW WALL FASTENERS. 4. SOLID MASONRY WALLS: USE EXPANSION ANCHORS AND
- PRESET INSERTS.
- 5. SHEET METAL: USE SHEET METAL SCREWS. WOOD ELEMENTS: USE WOOD SCREWS.
- 2.10 NAMEPLATES AND LABELS
 - A. NAMEPLATES: ENGRAVED THREE-LAYER LAMINATED PLASTIC, WHITE LETTERS ON BLACK BACKGROUND.
 - B. LOCATIONS:
 - 1. EACH ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT ENCLOSURE.
 - C. LETTER SIZE:
 - 1. USE 1/4 INCH (6 MM) LETTERS FOR IDENTIFYING NDIVIDUAL EQUIPMENT AND LOADS.
 - D. LABELS: EMBOSSED ADHESIVE TAPE, WITH 3/16 INCH (5 MM) WHITE ETTERS ON BLACK BACKGROUND. USE ONLY FOR IDENTIFICATION OF INDIVIDUAL WALL SWITCHES AND RECEPTACLES.
 - WIRE MARKERS

2.11

- A. DESCRIPTION: CLOTH, TAPE, SPLIT SLEEVE, OR TUBING TYPE WIRE B. LOCATIONS: EACH CONDUCTOR AT PANELBOARD GUTTERS, PULL BOXES, OUTLET AND JUNCTION BOXES, AND EACH LOAD
- CONNECTION. C. LEGEND:
 - 1. POWER AND LIGHTING CIRCUITS: BRANCH CIRCUIT OR FEEDER NUMBER INDICATED ON DRAWINGS. 2. CONTROL CIRCUITS: CONTROL WIRE NUMBER INDICATED
 - ON SCHEMATIC AND INTERCONNECTION DIAGRAMS ON DRAWINGS/ SHOP DRAWINGS.
- 2.12 PANELBOARDS/LOADCENTERS (AS SCHEDULED) A. MANUFACTURE:
 - 1. SQUARE "D"
 - 2. CUTLER-HAMMER
 - SIEMENS
 - 4. GENERAL ELECTRIC
 - B. ENCLOSURE: GENERAL PURPOSE, NEMA 1; UNLESS OTHERWISE
 - C. PROVIDE FLUSH/SURFACE (AS SCHEDULED) BOX, AND LATCH ON DOOR. FINISH IN MANUFACTURER'S STANDARD GRAY ENAMEL
 - D. PROVIDE BUS RATINGS AND MATERIALS AS SCHEDULED.
 - E. MINIMUM INTEGRATED SHORT CIRCUIT RATING: 10,000 AMPERES RMS SYMMETRICAL
 - F. MOLDED CASE CIRCUIT BREAKERS: BOLT-ON/PLUG-ON (AS SCHEDULED) TYPE THERMAL MAGNETIC TRIP CIRCUIT BREAKERS WITH COMMON TRIP HANDLE FOR ALL POLES. PROVIDE UL CLASS A GROUND FAULT INTERRUPTER CIRCUIT BREAKERS WHERE
 - SCHEDULED G. DO NOT USE TANDEM CIRCUIT BREAKERS.
- 2.13 LUMINAIRES

FACTORY.

- A. FURNISH PRODUCTS AS SPECIFIED IN SCHEDULE ON DRAWINGS.
- B. SUBSTITUTIONS: UNDER PROVISIONS OF THE CONTRACT.
- C. INSTALL DRIVERS, LEDS, AND SPECIFIED ACCESSORIES AT
- D. SPECIFY AN IN-LINE DISCONNECT TO MEET NEC. FURTHER REQUIRE THAT THE LIGHTING MANUFACTURER PROVIDE A "WIRE NUT" CONNECTION ON THE LOAD SIDE OF THE DISCONNECT TO FACILITATE LIGHT FIXTURE SERVICING.
- E. COLOR TEMPERATURE & CRI: 3500K, CRI ≥ 80. F. LED DRIVERS SHALL HAVE THE FOLLOWING CHARACTERISTICS
- UNLESS APPROVED BY ENGINEER . MAXIMUM DRIVE CURRENT: 350MA.
- 2. MINIMUM EFFICIENCY: 85%. 3. OPERATING TEMPERATURE RANGE: -40°C TO 50°C
- 4. MINIMUM RATED LIFE: 50,000 HOURS.
- 5. DIMMING RANGE: 100% TO 10% 6. UL CLASS I OR II OUTPUT.
- 7. POWER FACTOR: 90%
- 8. TOTAL HARMONIC DISTORTION: 20%. 9. COMPLY WITH FCC 47 CFR PART 15 NON-CONSUMER RFI/EMI
- G. ACCESSORIES: PROVIDE LUMINAIRE ACCESSORIES AS INDICATED.

2.14 ENCLOSED SWITCHES

STANDARDS.

- A. FUSIBLE SWITCH ASSEMBLIES: NEMA 1 INDOOR, NEMA 3R -OUTDOOR, TYPE HD (HEAVY DUTY) LOAD INTERRUPTER ENCLOSED KNIFE SWITCH WITH EXTERNALLY OPERABLE HANDLE INTERLOCKED TO PREVENT OPENING FRONT COVER WITH SWITCH IN ON POSITION. HANDLE LOCKABLE IN OFF POSITION. FUSE CLIPS: DESIGNED TO ACCOMMODATE CLASS R FUSES
- B. NONFUSIBLE SWITCH ASSEMBLIES: NEMA 1- INDOOR, NEMA 3R -OUTDOOR, TYPE HD LOAD INTERRUPTER ENCLOSED KNIFE SWITCH WITH EXTERNALLY OPERABLE HANDLE INTERLOCKED TO PREVENT OPENING FRONT COVER WITH SWITCH IN ON POSITION. HANDLE LOCKABLE IN OFF POSITION.

2.15 FUSES

- A. MANUFACTURERS:
 - BUSSMAN.
- 2. GOULD SCHAWMUT
- B. DESCRIPTION: DUAL ELEMENT, CURRENT LIMITING, ONE-TIME FUSE, 250 OR 600 VOLT AS APPLICATION REQUIRES.
- C. INTERRUPTING RATING: 200,000 RMS AMPERES.

- 3. PART 3 EXECUTION
 - 3.1 CONDUIT
 - A. INSTALL CONDUIT IN ACCORDANCE WITH NECA "STANDARD OF INSTALLATION.

3.9 LUMINAIRES

3.10

END OF SECTION 260000

- B. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND PRESENT NEAT APPEARANCE
- C. ROUTE CONDUIT PARALLEL AND PERPENDICULAR TO WALLS.
- D. MAINTAIN 12 INCH (300 MM) CLEARANCE BETWEEN CONDUIT AND SURFACES WITH TEMPERATURES EXCEEDING 104 DEGREES F (40 DEGREES C)
- E. CUT CONDUIT SQUARE USING SAW OR PIPECUTTER; DE-BURR CUT
- F. BRING CONDUIT TO SHOULDER OF FITTINGS; FASTEN SECURELY. G. JOIN NON-METALLIC CONDUIT USING CEMENT AS RECOMMENDED BY MANUFACTURER. WIPE NONMETALLIC CONDUIT DRY AND
- CLEAN BEFORE JOINING. APPLY FULL EVEN COAT OF CEMENT TO ENTIRE AREA INSERTED IN FITTING. ALLOW JOINT TO CURE FOR 20 MINUTES, MINIMUM. H. USE CONDUIT HUBS OR SEALING LOCKNUTS TO FASTEN CONDUIT
- TO SHEET METAL BOXES IN DAMP AND WET LOCATIONS AND TO CAST BOXES. I. INSTALL NO MORE THAN EQUIVALENT OF THREE 90-DEGREE BENDS
- BETWEEN BOXES. USE CONDUIT BODIES TO MAKE SHARP CHANGES IN DIRECTION, AS AROUND BEAMS. USE HYDRAULIC ONE-SHOT BENDER TO FABRICATE FACTORY ELBOWS FOR BENDS IN METAL CONDUIT LARGER THAN 2 INCH (50 MM) SIZE.
- 3.2 BUILDING WIRE & CABLE A. PULL ALL CONDUCTORS INTO RACEWAY AT SAME TIME.
 - B. USE SUITABLE WIRE PULLING LUBRICANT FOR BUILDING WIRE.
 - C. USE SUITABLE CABLE FITTINGS AND CONNECTORS
 - D. NEATLY TRAIN AND LACE WIRING INSIDE BOXES, EQUIPMENT, AND PANELBOARDS
 - E. CLEAN CONDUCTOR SURFACES BEFORE INSTALLING LUGS AND
 - CONNECTORS F. MAKE SPLICES, TAPS, AND TERMINATIONS TO CARRY FULL AMPACITY OF CONDUCTORS WITH NO PERCEPTIBLE TEMPERATURE
 - G. USE COMPRESSION CONNECTORS FOR COPPER CONDUCTOR SPLICES AND TAPS, 8 AWG AND LARGER. TAPE UNINSULATED CONDUCTORS AND CONNECTOR WITH ELECTRICAL TAPE TO 150 PERCENT OF INSULATION RATING OF CONDUCTOR.
 - H. USE INSULATED SPRING WIRE CONNECTORS WITH PLASTIC CAPS FOR COPPER CONDUCTOR SPLICES AND TAPS, 10 AWG AND
 - I. BRANCH CIRCUIT WIRING MAXIMUM 30 AMPS, MAY BE FLEXIBLE METAL CLAD CABLE "MC" OR METAL WHERE CONCEALED IN WOOD FRAMED SPACES, ALL OTHER WIRING, INCLUDING LOW-VOLTAGE WIRING, SHALL BE INSTALLED IN CONDUIT.

3.3 BOXES

- A. INSTALL ELECTRICAL BOXES AS SHOWN ON DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS AND COMPLIANCE WITH REGULATORY REQUIREMENTS.
- B. INSTALL ELECTRICAL BOXES TO MAINTAIN HEADROOM AND TO PRESENT NEAT MECHANICAL APPEARANCE.
- C. INSTALL BOXES TO PRESERVE FIRE RESISTANCE RATING OF PARTITIONS AND OTHER ELEMENTS, USING MATERIALS AND
- METHODS UNDER THE PROVISIONS IN THE SPECIFICATIONS. D. SUPPORT BOXES INDEPENDENTLY OF CONDUIT EXCEPT CAST BOX
- THAT IS CONNECTED TO TWO RIGID METAL CONDUITS BOTH SUPPORTED WITHIN 12 INCHES (300 MM) OF BOX.
- E. USE GANG BOX WHERE MORE THAN ONE DEVICE IS MOUNTED TOGETHER. DO NOT USE SECTIONAL BOX. F. USE GANG BOX WITH PLASTER RING FOR SINGLE DEVICE OUTLETS.
- G. USE CAST OUTLET BOX IN EXTERIOR LOCATIONS EXPOSED TO THE WEATHER AND WET LOCATIONS.
- 3.4 WIRING DEVICES
 - A. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S
 - INSTRUCTIONS. B. INSTALL DEVICES PLUMB AND LEVEL
 - C. INSTALL SWITCHES WITH OFF POSITION DOWN.
 - D. INSTALL RECEPTACLES WITH GROUNDING POLE ON BOTTOM.
 - E. CONNECT WIRING DEVICE GROUNDING TERMINAL TO OUTLET BOX WITH BONDING JUMPER AND BRANCH CIRCUIT EQUIPMENT
 - GROUNDING CONDUCTOR WHEN INSTALLED PER DRAWINGS.
 - F. CONNECT WIRING DEVICES BY WRAPPING CONDUCTOR AROUND SCREW TERMINAL
 - G. COORDINATE LOCATIONS OF OUTLET BOXES TO OBTAIN MOUNTING
 - HEIGHTS SPECIFIED AND INDICATED ON DRAWINGS.
 - H. INSTALL WALL SWITCH 46 INCHES (1.2 M) ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.
 - I. INSTALL CONVENIENCE RECEPTACLE 15 INCHES (381 MM) ABOVE
 - FINISHED FLOOR, UNLESS OTHERWISE NOTED
 - J. INSTALL CONVENIENCE RECEPTACLE 6 INCHES (153 MM) ABOVE COUNTER, UNLESS OTHERWISE NOTED.
- 3.5 EQUIPMENT WIRING AND SYSTEMS

JUMPERS AS INDICATED

EQUIPMENT, AND CONDUIT

3.8 PANELBOARDS/LOADCENTERS (AS SCHEDULED)

INSTRUCTIONS.

3.7 ELECTRICAL IDENTIFICATION

LABELS.

RIVETS.

3.6 SUPPORTING DEVICES

- A. MAKE ELECTRICAL CONNECTIONS IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
- B. MAKE CONDUIT CONNECTIONS TO EQUIPMENT USING FLEXIBLE CONDUIT. USE LIQUIDTIGHT FLEXIBLE CONDUIT WITH WATERTIGHT
- CONNECTORS IN DAMP OR WET LOCATIONS. C. MAKE WIRING CONNECTIONS USING WIRE AND CABLE WITH
- INSULATION SUITABLE FOR TEMPERATURES ENCOUNTERED IN HEAT PRODUCING EQUIPMENT
- D. INSTALL DISCONNECT SWITCHES, CONTROLLERS, CONTROL STATIONS, AND CONTROL DEVICES AS INDICATED.

E. MODIFY EQUIPMENT CONTROL WIRING WITH TERMINAL BLOCK

F. PROVIDE INTERCONNECTING CONDUIT AND WIRING BETWEEN

A. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S

C. DO NOT FASTEN SUPPORTS TO PIPES, DUCTS, MECHANICAL

D. OBTAIN PERMISSION FROM ARCHITECT/ENGINEER BEFORE

DRILLING OR CUTTING STRUCTURAL MEMBERS.

A. INSTALL PLUMB AND FLUSH WITH WALL FINISHES, IN

E. MEASURE STEADY STATE LOAD CURRENTS AT EACH

C. PROVIDE FILLER PLATES FOR UNUSED SPACES.

CONFORMANCE WITH NEMA PB 1.1.

B. HEIGHT: 6 FT (2 M), TO TOP OF BOX.

B. PROVIDE ANCHORS, FASTENERS, AND SUPPORTS IN ACCORDANCE

A. DEGREASE AND CLEAN SURFACES TO RECEIVE NAMEPLATES AND

B. INSTALL NAMEPLATE AND LABEL PARALLEL TO EQUIPMENT LINES.

D. PROVIDE TYPED CIRCUIT DIRECTORY FOR EACH BRANCH CIRCUIT

CIRCUITING CHANGES REQUIRED TO BALANCE PHASE LOADS.

PANELBOARD/LOADCENTER. REVISE DIRECTORY TO REFLECT

PANELBOARD/LOADCENTERS FEEDER. SHOULD THE DIFFERENCE

BETWEEN PHASES EXCEED 20 PERCENT, REARRANGE CIRCUITS IN

THE PANELBOARD/LOADCENTER TO BALANCE THE PHASE LOADS

C. SECURE NAMEPLATE TO EQUIPMENT FRONT USING SCREWS, OR

DEVICES AND EQUIPMENT WHERE INDICATED.

WITH NECA "STANDARD OF INSTALLATION".

	WITHIN 20 PERCENT. TAKE CARE TO MAINTAIN PROPER PHASING FOR MULTI-WIRE BRANCH CIRCUITS.	SECTION	260050		F		NCK 1	
F.	VISUAL AND MECHANICAL INSPECTION: INSPECT FOR PHYSICAL		Ν	IINOR ELECTRICAL DEMOLITION FOR REMODELING	4	<u>/1\ 08-05</u>		DGS
	DAMAGE, PROPER ALIGNMENT, ANCHORAGE, AND GROUNDING. CHECK PROPER INSTALLATION AND TIGHTNESS OF CONNECTIONS		PART I - GE	NERAL		()	TE HOOD T 01-21-25	DGS
	FOR CIRCUIT BREAKERS, FUSIBLE SWITCHES, AND FUSES.		1.01 SECT	ION INCLUDES:			1 01-21-23	
MINA	RES			A. ELECTRICAL DEMOLITION.				
	INSTALL SURFACE MOUNTED LUMINAIRES AND PLUMB AND ADJUST		PART II – PR	ODUCTS ERIALS AND EQUIPMENT:				
	TO ALIGN WITH BUILDING LINES AND WITH EACH OTHER. SECURE TO PROHIBIT MOVEMENT.			A. MATERIALS AND EQUIPMENT FOR PATCHING AND EXTENDING WORK:	F			
C.	INSTALL WALL MOUNTED LUMINAIRES, AT HEIGHT AS INDICATED ON			AS IN INDIVIDUAL SECTIONS.				
			PART III – E) 3.01 EXA					
D.	INSTALL SPECIFIED LAMPS / LED COLOR, OUTPUT AND DRIVERS IN EACH LUMINAIRE.			A. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS	F			
E.	CLEAN ELECTRICAL PARTS TO REMOVE CONDUCTIVE AND DELETERIOUS MATERIALS.			ARE AS SHOWN ON DRAWINGS.				
F.	REMOVE DIRT AND DEBRIS FROM ENCLOSURE.			B. VERIFY THAT ABANDONED WIRING AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES.				
G.	CLEAN PHOTOMETRIC CONTROL SURFACES AS RECOMMENDED BY MANUFACTURER.		1	C. DEMOLITION IS BASED ON CASUAL FIELD OBSERVATION. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DISTURBING				
н.	CLEAN FINISHES AND TOUCH UP DAMAGE.		1	EXISTING INSTALLATION. D. BEGINNING OF DEMOLITION MEANS INSTALLER ACCEPTS EXISTING				
	CLOSED SWITCHES		1	CONDITIONS.	(`
				PARATION:				
	INSTALL FUSES IN FUSIBLE DISCONNECT SWITCHES. PROVIDE ADHESIVE LABEL ON INSIDE DOOR OF EACH SWITCH			A. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.				
26000	'INDICATING UL FUSE CLASS AND SIZE FOR REPLACEMENT.			B. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR				
				CIRCUITS. USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS. C. EXISTING ELECTRICAL SERVICE: MAINTAIN EXISTING SYSTEM IN				38
				SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER AT LEAST 48 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION.		-2525	244 c 1621	CA 950
							$\infty \infty$	•
		3.03		ON AND EXTENSION OF EXISTING ELECTRICAL WORK				Hill
				OVE, RELOCATE AND EXTEND EXISTING INSTALLATIONS TO DMMODATE NEW CONSTRUCTION.			· · ·	
			B. REMO	OVE ABANDONED WIRING TO SOURCE OF SUPPLY.		408)	(40) H	Morgan
				IVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT E ACCESSIBLE CEILING FINISHES, CUT CONDUIT FLUSH WITH WALLS AND		4	fax (lor
				RS AND PATCH SURFACES.		Ŭ	fa	\geq
				DNNECT ABANDONED OUTLETS AND REMOVE DEVICES, REMOVE DONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND				
				OVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE REMOVED.		\mathbf{v}		
			E. REPA	IR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING		Ш		
			DEMO	DLITION AND EXTENSION WORK.				
		END OF	SECTION 26	0050		I∖		
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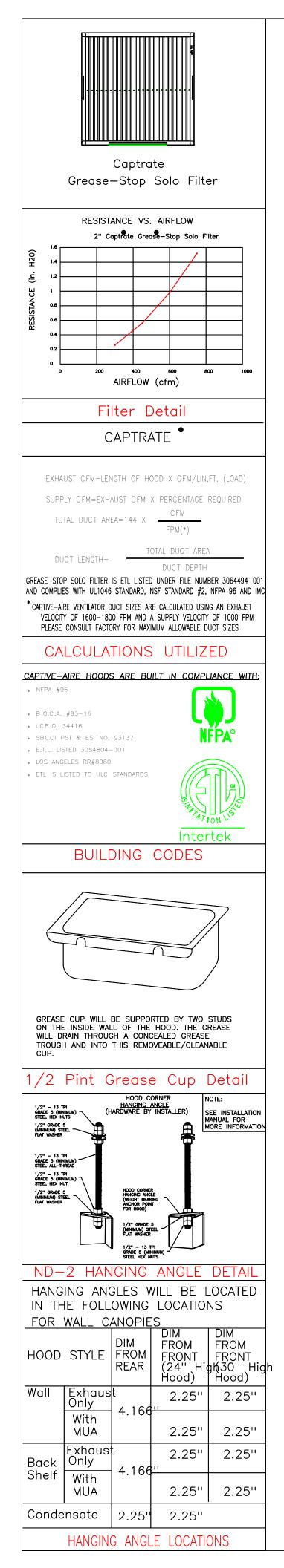
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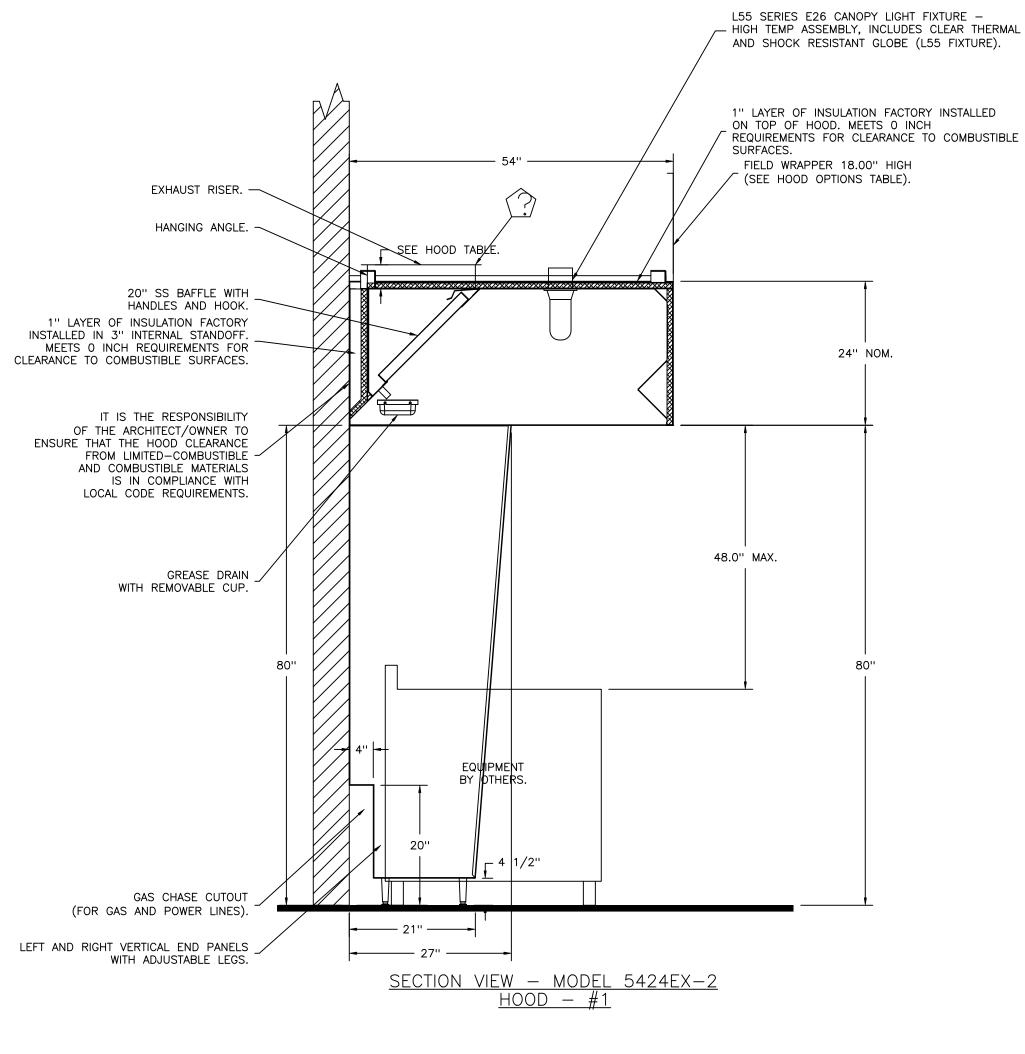
REVISIONS



НООД	INFO	RMATION	- JOB#684	47224																		
					MAX		APPLIANCE	DESIGN	TOTAL			NUST PL RISER(S				HOOD	HOOD	CONFIG				
HOOD NO	TAG	MODEL	MANUFACTURE	R LENGTH		G TYPE	DUTY		EXH CFM	WIDTH LENG	HEIGHT	DIA	CFM	VEL	SP	CONSTRUCTION	END TO END	ROW				
1		5424 EX-2	ECON-AIR	13' 0''	600 DEG	I	HEAVY	250	3250		4''	18''	3250	1839	-0.549''	430 SS WHERE EXPOSED	ALONE	ALONE				
HOOD	INFO	RMATION																				
				FI	LTER(S)					LIGHT(S)		1					UTILITY	CABINET(S)	ELECTRICAL	SWITCHES	- FIRE	HOOD
HOOD NO	TAG		TYPE	QTY H	EIGHT	GTH EFFIC	CIENCY @ 7	MICRONS	QTY	TYPE		WIRE GUARD	LOC	CATION	SIZE	TYPE		SIZE	MODEL #	QUANTITY		HANGING WEIGHT
1		SS BAFFLE	WITH HANDLES	S 9	20'' 10	5''	30%		4	L55 SERIES E2	26	NO	L	EFT.	12''x54''x2	4"			SC-311110MA	1 LIGHT 1 FAN	NO	1029 LBS
HOOD																						
HOOD NO	TAG						OPTION													1" LAYER OF INSUL	ATION FACTOR	RY
		FIELD WR	APPER 18.0	0" HIGH	FRON	IT, LEFT, F	RIGHT.												/	INSTALLED IN INTERN MEETS 0 INCH REQU	JIREMENTS F	OR
		INSULATION	FOR TOP OF	HOOD.																CLEARANCE TO COM	BUSTIBLE SU	IRFACES.
		STRUCTURAL	FRONT PANE	L.																		
		INSULATION	FOR BACK OF	HOOD.													$\overline{\langle}$				/////	
1		RIGHT VER SS.	TICAL END PAN	NEL 27	" TOP W	IDTH, 2	1" BOTTOM	WIDTH,	80'' HIG	GH INSULATE	ED 430						2/	<u>/////</u>	//////////////////////////////////////		/////	
			ICAL END PANI	EL 27''	TOP WIE)TH, 21	" BOTTOM	WIDTH,	80'' HIGH	I INSULATEI	D 430										c	<u>></u> /
			12'' 600CF	Μ [QTY	6]								_									ø18''
	SFR (SCHEDULE		<u> </u>	. ~1.]									
			CEILING	NOMINA			וח	JCT VELO		CE DISCHARGE	T50			NOISE								
TAG		MODEL	HEIGHT	FACE SI		DIA	CFM	(FPM)		LOCITY (FPM)	AFF	SP	` c	RITERIA	LINKED F	AN LINKED HOO						

8.05' 0.233'' 46

5424EX-2



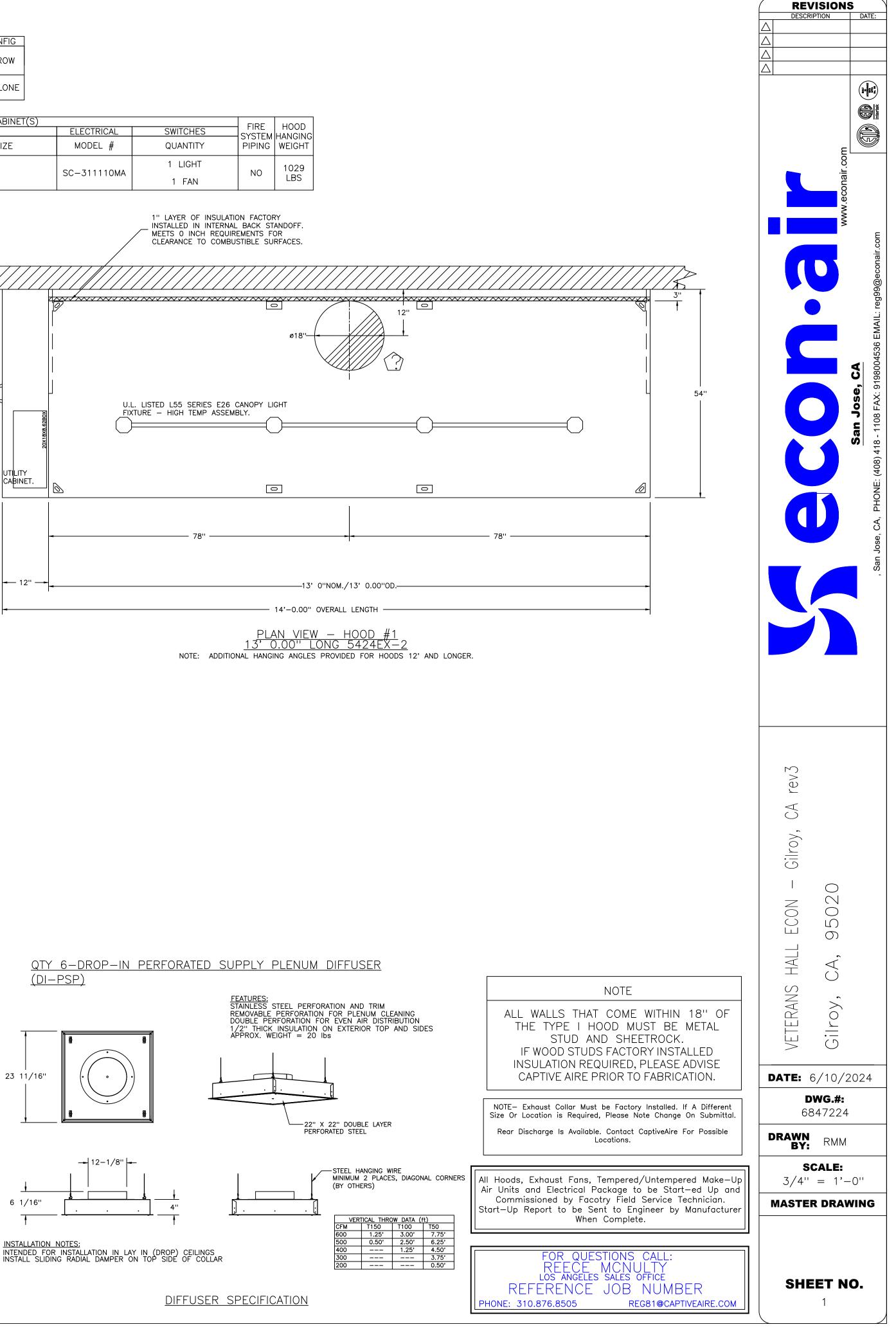
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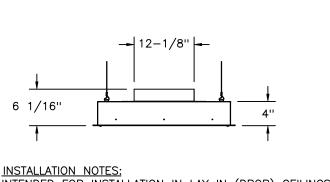
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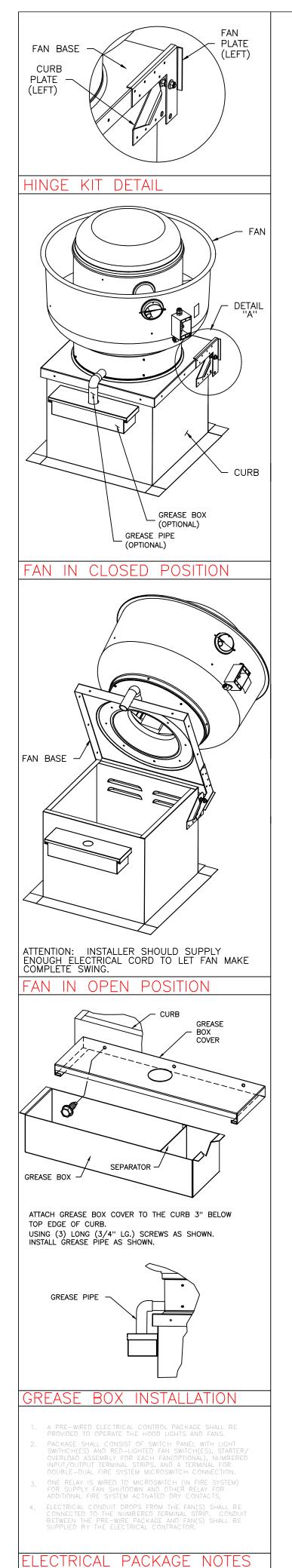
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DI-PSP-12-24X24 16' 24 X 24 12

	INSTALLED IN INTERN MEETS 0 INCH REQU CLEARANCE TO COME	AL BACK STANDOFF. IREMENTS FOR
<u> </u>		
		ø18'
20X18X8.62B0X	U.L. LISTED L55 SERIES E26 FIXTURE – HIGH TEMP ASSE	CANOPY LIGHT MBLY.
UTILITY CABINET.		0
	78"	-
 12"	-	13' 0''NOM./
-		14'-0.00" OVERALL

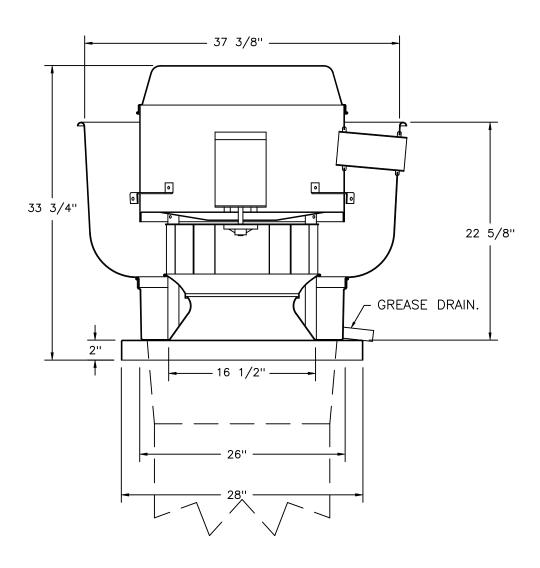


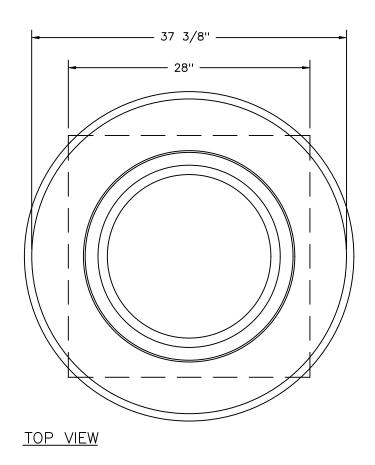




FAN UNIT NO	TAG	QTY	FAN UNIT	MODEL #	MANUFACTUR	ER CFM	ESP	RPM		NCL	HP BHP	PHASE	VOLT	FLA	DISC	CHARGE LOCITY	E	WEIGHT (LBS)	SOI	ES					
1	KEF-1	1	DU18	OHFA	CAPTIVEAIR	E 3250	1.50) 1320	ODP,P	REMIUM	3.000 1.7950) 3	208	9.5	75	1 FPM		189	2)					
	FAN II	<u>NFORM</u>	<u>ation — Joe</u>	3#6847224																					
FAN UNIT NO	TAG	QTY	FAN UNIT	MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	МСА	моср	EVAF FLOW R (Gal/H	TE ENTERING	ER EVAP COOLE DB ENTERING W TEMP	R EVAP COOLER B LEAVING DB TEMP	EVAP COOLER LEAVING WB TEMP	WEIGHT (LBS)	
2	MAU-1	1	EA-A	2-20D	20MF-2-MOD	A2	1500	3250	0.750	1469	ODP, PREMIUM	3.000	1.7390	3	208	9.5	11.9A	20A	4.83	90.0°F	62.0°F	71.0°F	62.0°F	692	18.
AN	OPTION	15					•		•			•		•	•		·							•	·
FAN UNIT NO	TAG				[DESCRIPTION																			
		1	GREASE BOX																						
1	KEF-1				OR CURB SUPPLIE	ED BY OTHE	RS																		
			2 YEAR PARTS																						
			EVAPORATIVE CO			1																			
					K FILTER SECTION																				
2		1 1	$ \Delta'\rangle$ induced has	IGING OPTION .	— INCLUDES 2 H	SA125 HAN(SING SPRI	NG ISOLA	TORS PE	R LINI-S															
	MAU-	1 1	SEPARATE 120	WIRING PACKA	– INCLUDES 2 H AGE (REQUIRED A						TRUT														
	MAU-	1		WIRING PACKA PHASE ONLY							ITRUT														
		1	SEPARATE 120V VFD) – THREE 2 YEAR PARTS	WIRING PACKA PHASE ONLY							ITRUT														
AN /	ACCES	1 1 SORIES	SEPARATE 120V VFD) – THREE 2 YEAR PARTS	WIRING PACKA PHASE ONLY							TRUT														
AN /		1 1 SORIES	SEPARATE 120V VFD) – THREE 2 YEAR PARTS 5 EXHAUST 5E GRAVITY WA	WIRING PACKA PHASE ONLY WARRANTY	GE (REQUIRED A SUPPLY		NLY FOR				TRUT														
FAN /	ACCES	I 1 SORIES GREAS CUP	SEPARATE 120V VFD) – THREE 2 YEAR PARTS EXHAUST EXHAUST GE GRAVITY WA DAMPER MO	WIRING PACKA PHASE ONLY WARRANTY	GE (REQUIRED A SUPPLY	ND USED O	NLY FOR				TRUT														
FAN /	ACCES TAG	I 1 SORIES GREAS CUP	SEPARATE 120V VFD) – THREE 2 YEAR PARTS EXHAUST EXHAUST GE GRAVITY WA DAMPER MO	WIRING PACKA PHASE ONLY WARRANTY	GE (REQUIRED A SUPPLY	ND USED O	NLY FOR				TRUT														
FAN UNIT NO 1 2	ACCES TAG KEF-1 MAU-	I 1 SORIES GREAS CUP I YES 1	SEPARATE 120V VFD) – THREE 2 YEAR PARTS EXHAUST EXHAUST GE GRAVITY WA DAMPER MOI	WIRING PACKA PHASE ONLY WARRANTY LL SIDE JNT DISCHARGE	GE (REQUIRED A SUPPLY	ND USED O	NLY FOR				TRUT														
FAN UNIT NO 1 2 URE	ACCES TAG KEF-1 MAU-	I 1 SORIES GREAS CUP	SEPARATE 120V VFD) – THREE 2 YEAR PARTS EXHAUST SE GRAVITY WA DAMPER MOU	WIRING PACKA PHASE ONLY WARRANTY LL SIDE JNT DISCHARGE	GE (REQUIRED A SUPPLY	ND USED O	NLY FOR			WITH	SIZE														

<u>FAN #1 DU180HFA – EXHAUST FAN (KEF–1)</u>







- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). - ROOF MOUNTED FANS.

- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE). – HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

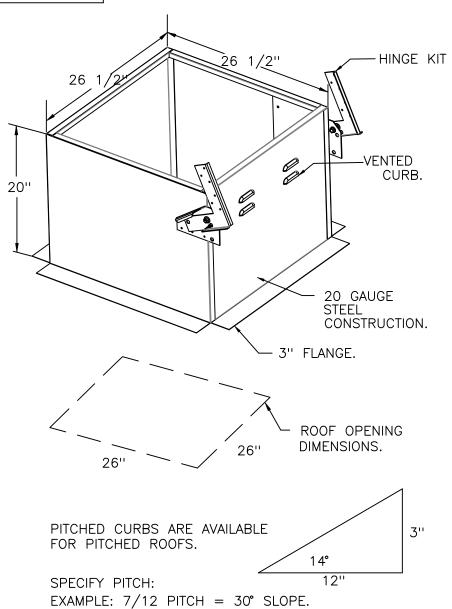
NORMAL TEMPERATURE TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED

THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION. ABNORMAL FLARE-UP TEST

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

<u>OPTIONS</u>

- GREASE BOX. HINGE KIT SHIPS LOOSE FOR CURB
- SUPPLIED BY OTHERS. 2 YEAR PARTS WARRANTY.



	DATE:
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ir.com	Real Internet Real
	San Jose, CA , San Jose, CA, PHONE: (408) 418 - 1108 FAX: 9198004536 EMAIL: reg99@econair.com
VETERANS HALL ECON – Gilroy, CA rev3 Gilroy, CA, 95020	
DATE: 6/10/2	.024
DWG.#:	
6847224	
BY: RMM	
SCALE: 3/4" = 1'-	. <u></u>
MASTER DRAV	

FAN #2 EA-A2-20D - SUPPLY FAN (MAU-1)

UNTEMPERED SUPPLY UNIT WITH 20" MIXED FLOW DIRECT DRIVE FAN IN SIZE #2 HOUSING.
 EVAP COOLER (CELDEK) & V-BANK WITH 2" TA-13 FILTERS - INDOOR.

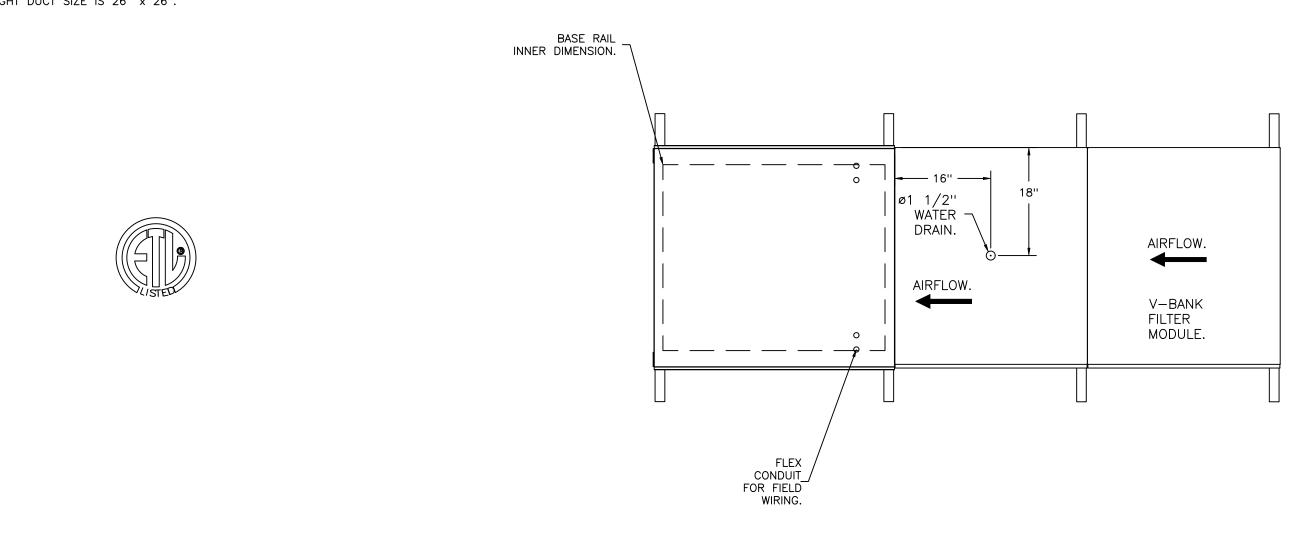
3. SIDE DISCHARGE - AIR FLOW RIGHT -> LEFT.

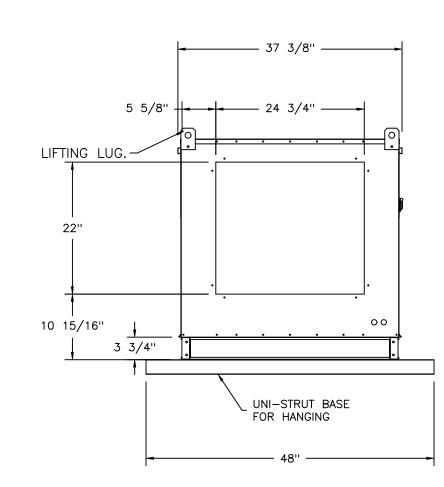
4. 120V WIRING CONNECTION TO ENERGIZE EVAPORATIVE COOLERS FROM UNTEMPERED SUPPLY FANS. 5. "INSULATION" FOR V-BANK INTAKE OPTION.

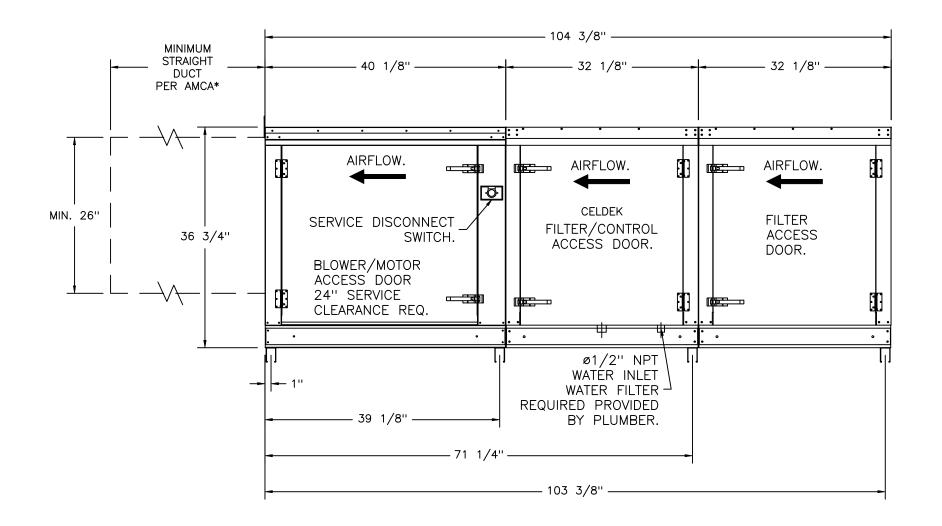
5. INSOLATION FOR V-BANK INTARE OPTION. 6. INDOOR HANGING CRADLE FOR THE SIZE 2 UNTEMPERED UNIT. 2 HSA125 HANGING ISOLATORS PER UNI-STRUT INCLUDED. 7. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.

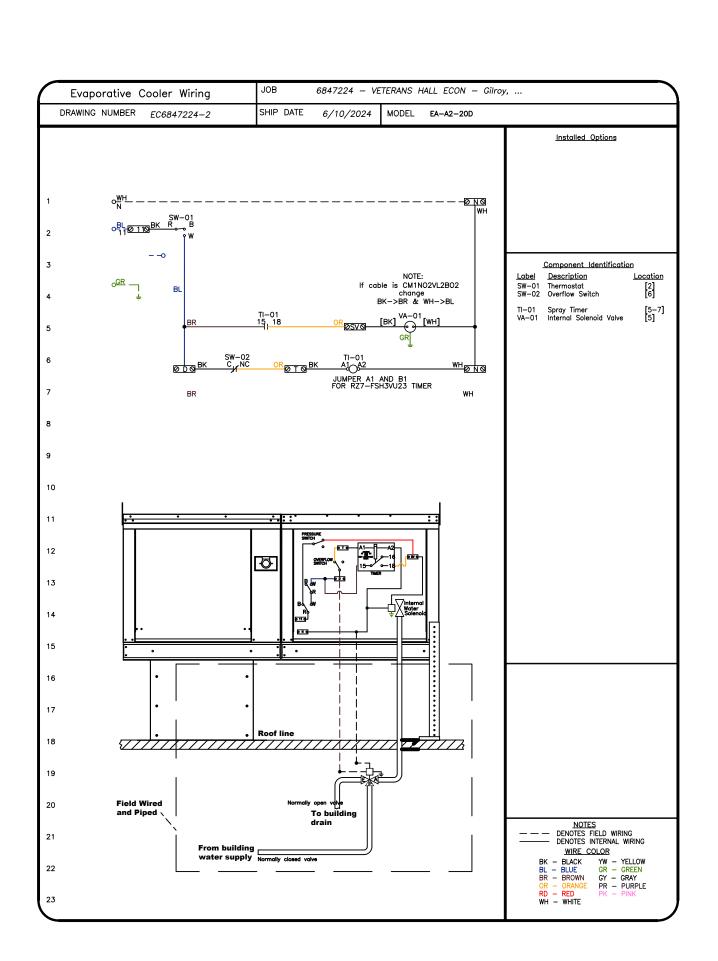
8. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER/EVAP SECTION). 9. 2 YEAR PARTS WARRANTY.

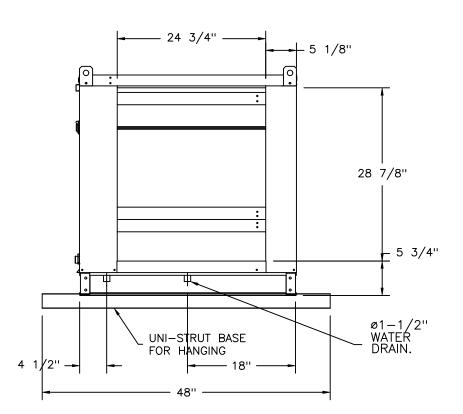
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 26'' × 26''.

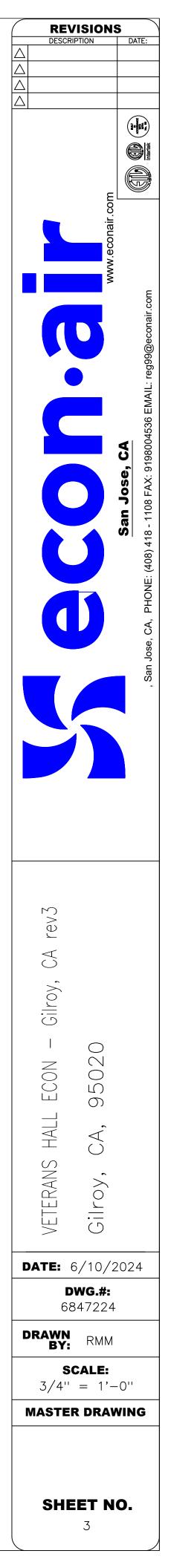










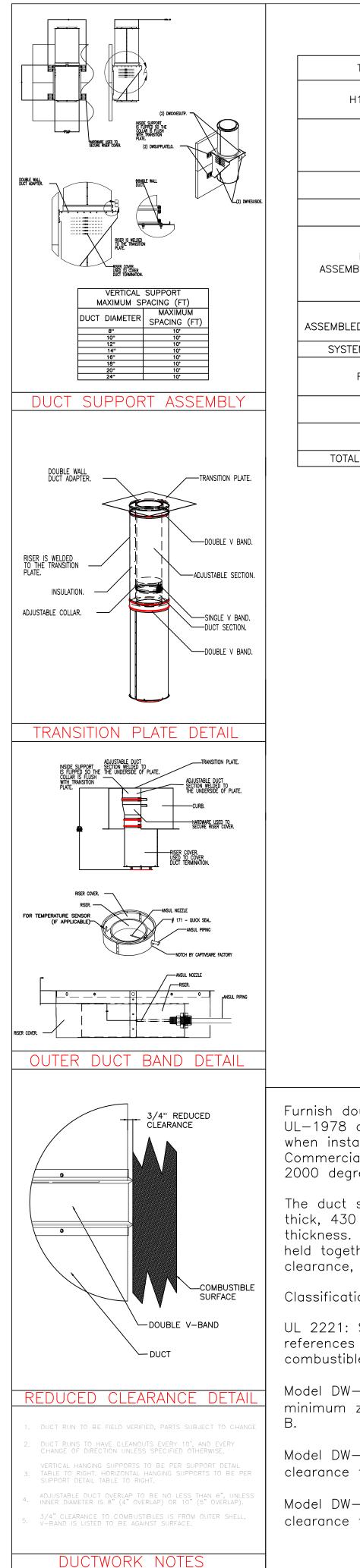


NO	TAC			SWI	CHES			OPTION		
NU	TAG	PACKAGE #	LOCATION	LOCATION		QUANTITY				
				UTILITY CABINET LEF	T 1 LIGHT	5		LS THERMOSTATIC CONTROL W/	KI	EF-1
1		SC-311110MA	UTILITY CABINET LEFT	HOOD # 1				ON/OFF WITH SUPPLY	M	AU-1
J	DB NO		MODEL NUMBER SC_31	1110MA	DRAWN BY	SCHEMATIC TYPE		ION OF OPERATION:		
	684	17224	JOB NAME	ECON - Gilroy,	DATE	INSTALL DWG NO ECP #1-1	3 Phase w/ cont On/Off Thermosto REQUIRED FOR U	trol for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Ligt atically Controlled. Room temperature sensor shipped loose fo SE WITH VFD.	its out in Fire, Relaj r field installation. Il	y On/Off with INVERTER DUTY
1					1/21/2025					
2.										1
-	BREAKER I		Y CONTROL PANEL		ANEL TO ACCESSO		5	control panel <u>SFC10</u>	ORMALLY OPEN	↓
3	BREAKER	Responsibility: Elec SIZE SHOWN IS THE	MAXIMUM ALLOWED	CONTROL PANEL	ponsibility: Electricia		OMPONENT	ON/OFF WITH SEC2 OF	ORMALLY OPEN	
_ [BREAKER PANEL		PRIMARY CONTROL PANEL			міся	ROSWITCH 1	GROUP 1 GROUP	L MAKE	+-
	BREAKER 1PH		HotOH1 <u>Neutral</u> ON1	CONTROL PANEL		1:0	4:NO SEF	WHEN SUPPLY FAN IS	5 ON.	
5	120 V 	CONTROL POWER. DO	Ground	FIRE SYSTEM AR10-	WIRE C1 TO COMMON (1). WIRE AR1 TO NORMALLY CLO	-		CONTROL PANEL HIO		
6		ST HOOD LIGHT BREAKER SH			WIRE AR1 TO NORMALLY CLO C1 TO AR1 SHOULD HAVE CONTINUITY WHEN ARMED.		S-14:NO SAF	TO <u>1010</u> — — — — — — — — — — — — — — — — — — —	OUGH BMS	+
,	P	POWER. SWITCH #1						SWITCH LIGHTS	LI FANS AND	
7	BREAKER 1PH - 208 V -			IF MORE THAN ONE FIRE SYSTEM, WIRE IN SERIES AS SHOWN		М 1:С	S-2 4:NO SAF 2:NC			
8		EXH-1 SM		AR10-						
5	V	WIRE TO VFD QUICK CONNE			ALL SWITCHES FACTORY WIRE					
9	BREAKER 1PH - 208 V -		=	то 134	CAT-5 CONNECTION					
<u>_</u>	MCA: 21.4 A	MAU-1 SM	- <u> </u>	SWITCHES						
10	MOCP: 30 A	WIRE TO VFD QUICK CONNE	ECTOR	CONTROL PANEL B1 O		_ <u>BLACK</u>	OD LIGHTS 1			
11				TO WIO- HOOD LIGHTS GNDO-						
				1400 W MAX	WIRE TO J-BOX ON TOP OF	HOOD				
12		CONTROL PANEL Responsibility: Electronic		СОММ	CAT-5 ETHERNET CONNECTIO					
13	PRIMARY PANI	<u>EL</u>	FANS	CONTROL PANEL	WIRE DIRECTLY TO COMMUNIC					
_	Load Wiring	U1 LOAD_LEG_1	\frown - FAN: 01 - EXH-1 FLA: 9.5	WORLD WIDE WEB	MODULE. NET REQUIRES 1) I UDP PORT 1444 & 1445 OF	DHCP 2)				
14		$\frac{\sqrt{1}}{\sqrt{1}} + \frac{\sqrt{1}}{\sqrt{1}} + \frac{\sqrt{1}}{\sqrt{1}$	HP: 3.000 VOLT: 200		OUTBOUND TRAFFIC ONLY.					
15	VFD QUICK	/		CONTROL PANEL TIA O-						
_		MUST HAVE ITS (DO NOT SHARE (TO TIBO- ROOM TEMP	WIRE TO CONTROL BOARD. IN SENSOR IN ROOM AWAY FROM		ROOM TEMP			
16	Load Wiring		FAN: 02 BLACK MAU-1 FLA: 9.5 HP: 3.000	SENSOR	SOURCES. DO NOT INSTALL S ON THE CEILING GRID, SEE N	SENSOR	GROUPS:			
17	SM-2	<u>V2</u> <u>LOAD LEG 2</u> <u> </u>								
_		<u>H10</u> —120V hot N10120V neutral	— <u>Med</u> oro — <u>Mitte</u> DN1	TO T2BO- DUCT SENSOR	FACTORY WIRED TEMPERATURI SENSOR. MOUNTED IN EXHAU		HOOD 1 RISER 1			
18		<u>NDO</u> — — <u>ground</u> — — V								
19	2ND PANEL, WIR SF SIGNAL FROM	RE MUST HAVE ITS (THE FOLLOWING CONNEC MAY OR MAY NOT REQUIRED BASED ON JOI	TIONS BE				
_	PANEL WITH ECPM03.				SPECIFICATIONS					
20				CONTROL PANEL ST O	<u>HOT_TO_SHU</u>					
21				SIGNAL FOR <u>N1O</u> - EXTERNAL	ST TERMINAL IS ENERGIZE					
_				SHUNT TRIP	IN FIRE CONDITION.		TACTOR_COIL			
22				CONTROL PANEL KS O- SIGNAL FOR <u>N1 O</u> -	NEUTRAL_TO_CONTACTOR	<u></u>				
23				EXTERNAL CONTACTOR COIL	KS TERMINAL IS DE-ENER IN FIRE CONDITION.	RGIZED				
_										
24										
—										

FANS CONTROLLED									
	TYPE	ф	HP	VOLT	FLA				
	EXHAUST	3	3.000	208	9.5				
	SUPPLY	3	3.000	208	9.5				

n Supply Fan, Fan(s) Y 3 PHASE MOTOR

	TE:
	Marten
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	, San Jose, CA, PHONE: (408) 418 - 1108 FAX: 9198004536 EMAIL: reg99@econair.com
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Gilroy, CA	
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HALL CA,	
Cilroy,	
DATE: 6/10/2024 DWG.#: 6847224	+
DRAWN BY: RMM	
SCALE: 3/4'' = 1'-0''	
MASTER DRAWIN	G
SHEET NO. 4	



TAG	PART #	CFM	GPM	ZONE COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
H1-E1	DW22DWRISER-2R-S	3250			-0.549	10.73	0.00	1	DOUBLE WALL RISER COVER – USED ON 18" INNER RISER, 4" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
P1	DW1847DWAJD-2R-S	3250			-0.009	107.98	1839.12	1	DOUBLE WALL ADJUSTABLE DUCT - 18" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P2	DW1845DWASY-2R-S	3250			-0.0416	26.22	1839.12	1	DOUBLE WALL DUCT – 18" INNER 45 DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
P3	DW1845DWASY-2R-S	3250			-0.0371	26.22	1839.12	1	DOUBLE WALL DUCT – 18" INNER 45 DUCT – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER SHELL.
P4 ASSEMBLED W/P5	DW1847DWAJDTP-2R-S	3250			-0.01	108.88	1839.12	1	DOUBLE WALL ADJUSTABLE DUCT TRANSITION PLATE - 18" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 22" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P5 ASSEMBLED W/P4 O=B	DW2618TPDBEX	3250				9.00	1839.12	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 26 1/2" CURB TO 18" DUCT, 16 GA ALUMINIZED. USED ON NCA16FA / NCA16HPFA & NCA18FA / NCA18HPFA. TRANSITION PLATE OD IS 27.00" DESIGNED FOR USE WITH EXHAUST FAN. NON-STANDARD PART.
SYSTEM AT P5					-0.6467	0.00			
RC1	DW22DWRISER-2R-S					10.73		1	DOUBLE WALL RISER COVER – USED ON 18" INNER RISER, 4" LONG – 2 LAYERS REDUCED CLEARANCE – 22" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
	3M-2000PLUS					0.80		2	DUCT – 3M FIRE BARRIER 2000 PLUS SILICONE – USED AS SEALANT TO SEAL DUCT JOINTS.
	DW18DWCLASY-2R-S					8.70		1	DUCT – 18" DUCT – 22" DOUBLE "V" CLAMP – 2R INSULATION & SINGLE "V" CLAMP INCLUDED - REDUCED CLEARANCE.
TOTAL WEIGHT						310.06			

Furnish double wall, factory built grease duct for use with Type I kitchen hoods, which conforms to the requirements of NFPA-96. Products shall be ETL listed to UL-1978 and UL-2221 for venting air and grease vapors from commercial cooking operation. Models DW-2R, 3R and 3Z are used for grease duct applications when installed in accordance with these instructions and National Fire Protection Association "NFPA 96"; Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations. Double wall grease ducts are listed for a continuous internal temperature of 500 degrees F and intermittent temperatures of 2000 degrees F.

The duct sections shall be constructed of an inner duct wall and an outer wall with insulation in between. The inner duct wall shall be constructed of .036 inch thick, 430 type stainless steel and be available in diameters 8" through 24". The outer wall shall be constructed of stainless steel at a minimum of .024 inch thickness. The duct, based on model number, shall include layers of Super Wool 607 Plus insulation between the inner and outer wall. Grease duct joints shall be held together by means of formed V clamps and sealed with 3M Fire Barrier 2000+. The duct wall assembly shall be tested and listed at ¾" or zero inch clearance, according to classifications.

Classifications and Clearances

UL 2221: Standard for Fire Resistive Grease Duct Enclosure Assemblies. Chapter 7 of this standard references a test labeled Internal Fire Test. Section 7.1.1 references two installation conditions, Condition A and Condition B. Condition A represents all installation condition except for installation within non-ventilated combustible enclosures. Condition B represents installation within a non-ventilated combustible enclosure.

Model DW-3Z is classified under UL2221 (Test of Fire Resistive Duct Enclosure Assemblies) as an alternate to 2-Hr. fire resistive shaft enclosures with a minimum zero clearance to combustibles (sizes 8" to 24" diameter). Model 3Z is listed in accordance with the requirements for duct enclosure Condition A and B.

Model DW-3R is classified under UL2221 (Test of Fire Resistive Duct Enclosure Assemblies) as an alternate to 2-Hr. fire resistive shaft enclosures with a reduced clearance to combustibles (sizes 8" to 24" diameter). Model 3R is listed in accordance with the requirements for duct enclosure Condition B.

Model DW-2R is classified under UL2221 (Test of Fire Resistive Duct Enclosure Assemblies) as an alternate to 2-Hr. fire resistive shaft enclosures with a reduced clearance to combustibles (sizes 8" to 16" diameter). Model 2R is listed in accordance with the requirements for duct enclosure Condition B.

REVISIONS DESCRIPTION DATE:
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, San Jose, CA, PHONE: (4)
Gilroy, CA rev3
S HALL ECON - CA, 95020
, A, VETERANS HAI VETERANS HAI DATE: 6/10/2024 DWG.#:
6847224
BY: RMM SCALE: 3/4" = 1'-0" MASTER DRAWING
SHEET NO. 5

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.

HORIZONTAL

- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.

TYPE

2R & 2R HT (5"-16")

2R (18'')

3R & 3Z (5''-24'')

- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL

SUPPORT SPACING (FT)

7'

7'

7'

7'

7'

7'

7'

7'

5'

5'

5'

5'

5' 5'

5'

5'

5'

5'

FOR PROPER LEAK TESTING METHODS.

DOUBLE WALL FACTORY BUILT DUCTWORK

DUCT DIAMETER

5''

6''

7''

8''

10''

12''

14''

16''

18''

20''

22''

24''

26''

28''

30''

32''

34''

36''

DUCTWORK #1 FRONT VIEW DUCTWORK #1 SIDE VIEW DUCTWORK #1 TOP VIEW DUCTWORK #1 SE VI

56.5''MAX 39.5'' 19''MIN



VERTICAL

CURB

24'

24'

24'

20'

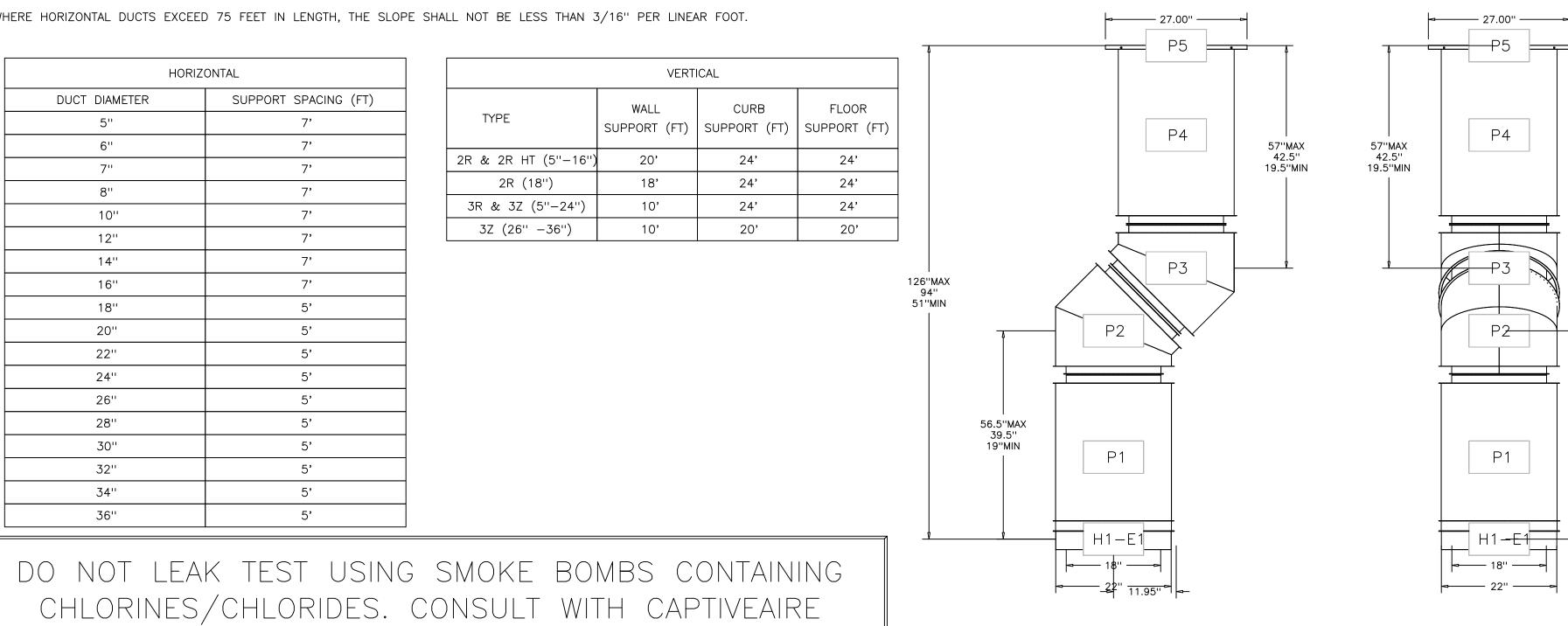
WALL

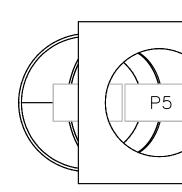
20'

18'

10'

10'





	REVISIONS
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	004536
	<u>ම - 1108 FAX: 919800</u>
	108 EA
	, San Jose, CA, PHONE: (408) 416 FAX: 9198004536 EMAIL: re999@econair.com
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	3/4" = 1'-0" Master Drawing
	sheet no.
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Ρ3

PΆ

Ρ1

H1-E1