### MECHANICAL SPECIFICATIONS

PROVIDE EQUIPMENT INDICATED ON THE DRAWINGS, AND AS REQUIRED FOR A COMPLETE FUNCTIONING SYSTEM.

DEFINITIONS: <u>FURNISH</u> MEANS TO SUPPLY AND DELIVER TO PROJECT SITE, READY FOR INSTALLATION. <u>INSTALL</u> MEANS TO PLACE IN POSITION AND MAKE CONNECTIONS FOR SERVICE OR USE. <u>PROVIDE</u> MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR INTENDED USE.

WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF THE COMPLETED PROJECT. PROVIDE A SEPARATE LINE ITEM DEDUCT AMOUNT ON THE PROPOSAL FORM TO DELETE WARRANTY SERVICE, AT THE OWNER'S OPTION.

PROVIDE OPERATION MANUALS, MAINTENANCE MANUALS AND SCHEMATICS FOR ALL MECHANICAL EQUIPMENT INSTALLED.

COORDINATION: COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

ROOF PENETRATIONS SHALL COMPLY WITH "SMACNA" AND "NRCA" STANDARDS, AND WITH THE REQUIREMENTS OF THE EXISTING ROOFING WARRANTY, IF APPLICABLE. DO NOT PERFORM ROOFING PENETRATIONS IN A MANNER WHICH WOULD VOID OR OTHERWISE LIMIT THE EXISTING ROOF WARRANTY.

DUCT DIMENSIONS: UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS.

SHEET METAL DUCTWORK: PROVIDE SHEET METAL DUCTWORK FABRICATED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS, FOR 1" W.G. PRESSURE CLASS, SEAL CLASS "A". SHEET METAL SHALL BE GALVANIZED SHEET STEEL OF LOCK FORMING QUALITY, WITH G90 ZINC COATING. SHEET STEEL SHALL COMPLY WITH ASTM A653 STANDARD SPECIFICATION FOR STEEL SHEET METAL, ZINC COATED (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANNEALED) BY THE HOT DIP PROCESS, AND A924 STANDARD SPECIFICATION FOR GENERAL REQUIREMENTS FOR SHEET, METALLIC-COATED BY THE HOT DIP PROCESS. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. CONNECTIONS TO WALLS OR FLOOR SHALL BE AIR TIGHT WITH ANGLE IRON AND CAULKING. SEAL ALL DUCT SEAMS, TRANSVERSE AND LONGITUDINAL, AIR TIGHT. PROVIDE TURNING VANES AT ALL 90° ELBOWS.

TRAPEZE DUCT HANGERS: PROVIDE MINIMUM 1" X 2" X 1" X 18 GAUGE CHANNELS WITH MINIMUM 1" X 18 GAUGE STRAPS TO STRUCTURAL SUPPORT.

ROUND SHEET METAL DUCT: PROVIDE SPIRAL SEAM (ALL SIZES) OR SNAP LOCK (DUCT SIZES UP TO 10") GALVANIZED STEEL COMPLYING WITH SMACNA STANDARDS. SPIRAL SEAM DUCTWORK SHALL HAVE SMACNA SEAM TYPE RL-1.

FIBER GLASS DUCT BOARD IS AN ACCEPTABLE ALTERNATIVE IF APPROVED BY OWNER AND THE LOCAL BUILDING CODE OFFICIAL. PRODUCT AND INSTALLATION MUST MEET NAIMA STANDARDS AND OTHER APPLICABLE CODES AND REGULATIONS.

EXPOSED DUCTWORK: EXPOSED DUCTWORK SHALL BE CLEANED OF DEBRIS AND OIL, THEN WIPED DOWN WITH VINEGAR OR OTHER SURFACE PREPARING CHEMICAL TO PREPARE DUCT FOR PAINT.

DUCT SEALANT: PROVIDE POLYMERIC RUBBER TYPE SEALANT FOR USE ON BOTH INTERIOR LOCATED DUCTWORK AND DUCTWORK EXPOSED TO OUTDOOR CONDITIONS. SEALER SHALL HAVE HIGH BONDING STRENGTH FOR SURE, FIRST TIME SEALING OF JOINTS IN LOW, MEDIUM, AND HIGH PRESSURE DUCT SYSTEMS. SEALER SHALL BE HIGH IN SOLID CONTENT. PROVIDE A TWO PART TAPE SEALING SYSTEM, CONSISTING OF WOVEN FIBER TAPE IMPREGNATED WITH A GYPSUM MINERAL COMPOUND, AND A MODIFIED ACRYLIC/SILICONE ACTIVATOR THAT REACTS EXOTHERMICALLY WITH THE TAPE. TWO PART TAPE SEALING SYSTEM MUST BE RATED FOR BOTH INDOOR AND OUTDOOR APPLICATION. TAPE SHALL NOT CONTAIN ASBESTOS.

DUCT INSULATION: MATERIAL FOR SUPPLY AND RETURN AIR DUCT ABOVE CEILING INSIDE THE BUILDING SHALL HAVE THE EQUIVALENT THERMAL RESISTANCE OF MINIMUM R-6. THE REQUIRED R VALUES ARE FOR INSTALLED INSULATION WITH 25% COMPRESSION AT THE CORNERS. PROVIDE PINS AND WASHERS IN ACCORDANCE WITH SMACNA REQUIREMENTS AND AS REQUIRED TO PREVENT INSULATION FROM SAGGING. PROVIDE ADEQUATE INSULATION AT THE SUPPLY AIR DIFFUSERS TO PREVENT CONDENSATION.

FLEXIBLE DUCT: UL #181 LISTED, CLASS 1, AND CONTAIN A 0.1 PERM RATED POLYETHYLENE INNER LINER, WITH R-8 FIBERGLASS INSULATION. FLEXIBLE DUCTS SHALL BE SECURED TO RIGID SHEET METAL COLLARS AND AIR DIFFUSERS WITH NYLON TIES OR STAINLESS STEEL WORM GEAR STRAPS. SEAL ALL CONNECTIONS AND JOINTS AIRTIGHT. SUPPORT FLEXIBLE DUCTS FROM THE BUILDINGS STRUCTURE WITH MINIMUM 1" WIDE, 18 GAUGE, GALVANIZED STEEL STRAP AT MAXIMUM 4'-0" CENTERS. PROVIDE 4" WIDE SHEET METAL SADDLES AT EACH SUPPORT EACH STRAP. SAG OF FLEXIBLE DUCT BETWEEN HANGERS SHALL NOT EXCEED 1/2" PER FOOT OF SUPPORT SPACING. RADIUS FOR TURNS OF FLEXIBLE DUCTS SHALL BE A MINIMUM OF ONE DUCT DIAMETER. FLEXIBLE DUCT RUNS SHALL NOT EXCEED 10'-0" IN LENGTH AND SHALL BE THE SAME SIZE AS THE DIFFUSER NECK CONNECTION.

ROUND VOLUME DAMPERS: PROVIDE MINIMUM 20 GAUGE GALVANIZED STEEL FRAME AND BLADES, MINIMUM 3/8" SQUARE STEEL AXLE, MOLDED SYNTHETIC BEARINGS, WITH LOCKING POSITION REGULATOR. REGULATOR SHALL BE POSITIONED WITH SHEET METAL BRACKET BEYOND DUCT COVERING. WHERE POSITIONING REGULATOR IS NOT ACCESSIBLE, PROVIDE COUPLING AND EXTENSION ROD WITH REGULATOR FOR CEILING OR WALL INSTALLATION, AS REQUIRED.

RECTANGULAR VOLUME DAMPERS: PROVIDE MINIMUM 16 GAUGE GALVANIZED STEEL CHANNEL FRAME, 16 GAUGE GALVANIZED STEEL BLADES, MINIMUM 1/2" HEXAGONAL AXLE, BOLDED SYNTHETIC BEARINGS, WITH 3/8" SQUARE PLATED STEEL CONTROL SHAFT. LINKAGES SHALL BE CONCEALED IN THE FRAME. OPERATING SHAFT SHALL EXTEND BEYOND FRAME AND DUCT TO A LOCKING QUADRANT WITH ADJUSTABLE LEVER. MAXIMUM BLADE WIDTH SHALL NOT EXCEED 6".

DUCT TURNING VANES: PROVIDE FABRICATED TURNING VANES AND VANE RUNNERS, CONSTRUCTED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS". PROVIDE TURNING VANES CONSTRUCTED OF CURVED BLADES, SUPPORTED WITH BARS PERPENDICULAR TO BLADES, AND SET INTO SIDE STRIPS SUITABLE FOR MOUNTING IN DUCTWORK. FOLLOW SMACNA GUIDELINES FOR SPACING SUPPORT, AND CONSTRUCTION. ALL BLADES SHALL BE DOUBLE THICKNESS AIRFOIL TYPE.

FLEXIBLE DUCT CONNECTORS: PROVIDE U.L. LABELED 30 OUNCE NEOPRENE COATED FIBERGLASS FABRIC DUCT CONNECTORS.

DUCT ACCESS DOORS: PROVIDE HINGED ACCESS DOORS IN DUCTWORK WHERE REQUIRED FOR ACCESS TO EQUIPMENT. PROVIDE INSULATED ACCESS DOORS FOR INSULATED DUCTWORK. CONSTRUCT OF SAME OR THICKER GAUGE SHEET METAL AS DUCT IN WHICH IT IS INSTALLED. PROVIDE FLUSH FRAMES FOR UN-INSULATED DUCTS, AND EXTENDED FRAMES FOR EXTERNALLY INSULATED DUCTS. PROVIDE CONTINUOUS HINGE ON ONE SIDE, WITH ONE HANDLE-TYPE LATCH FOR ACCESS DOORS 12" HIGH AND SMALLER, AND TWO HANDLE-TYPE LATCHES FOR LARGER ACCESS DOORS.

HVAC CONTROL SYSTEM: PROVIDE ALL THE NECESSARY CONTROLS AND CONTROL WIRING IN CONDUIT COMPATIBLE TO SYSTEMS SHOWN ON EQUIPMENT SCHEDULE M2.0.

PROGRAMMABLE THERMOSTAT FOR EACH SYSTEM SHALL ENABLE THE SUPPLY FAN AND CYCLE THE COOLING AND HEATING STAGES TO MAINTAIN SPACE SET-POINT. SUPPLY FAN RUNS CONTINUOUSLY DURING THE OCCUPIED MODE.

EACH THERMOSTAT SHALL HAVE A DEAD BAND OF AT LEAST 5 DEGREES (ADJ) WITHIN WHICH THE SUPPLY OF HEATING AND COOLING IS SHUT OFF,

EACH THERMOSTAT SHALL HAVE SETBACK AND SET-UP CAPABILITY DURING THE UNOCCUPIED MODE. FOR SETBACK, THE HEATING SHALL RESTART AND TEMPORARILY OPERATE ACCORDING TO A SET-POINT ADJUSTABLE DOWN TO 55 DEGREES. FOR SET-UP, THE COOLING SHALL RESTART AND TEMPORARILY OPERATE ACCORDING TO A SET-POINT ADJUSTABLE UP TO 85 DEGREES OR TO PREVENT HIGH SPACE HUMIDITY LEVELS.

EACH SYSTEM SHALL BE PROVIDED WITH A MOTORIZED OUTSIDE AIR DAMPER THAT WILL AUTOMATICALLY SHUT WHEN THE SYSTEM OR SPACES SERVED ARE NOT IN USE. VENTILATION OUTSIDE AIR DAMPERS SHALL BE CAPABLE OF AUTOMATICALLY CLOSING DURING PREOCCUPANCY BUILDING WARM-UP, COOL DOWN, AND SETBACK, EXCEPT WHEN VENTILATION REDUCES ENERGY COSTS (e.g., NIGHT PURGE) OR WHEN VENTILATION MUST BE SUPPLIED TO MEET CODE REQUIREMENTS.

COMMISSIONING/VERIFICATION: HVAC CONTROL SYSTEM SHALL BE TESTED TO ENSURE THAT CONTROL ELEMENTS ARE CALIBRATED, ADJUSTED, AND IN PROPER WORKING CONDITION, AND THAT THE SYSTEM MEETS THE DESIGN REQUIREMENTS.

TEST AND BALANCE: CONTRACT DIRECTLY A THIRD PARTY TO PROVIDE TEST AND BALANCE OF THE HVAC SYSTEM. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SCHEDULING. TEST AND ADJUST ALL MECHANICAL SYSTEM AND EQUIPMENT TO ASSURE PROPER BALANCE AND OPERATION. PERFORM TESTS IN ACCORDANCE WITH NEBB PROCEDURAL STANDARDS-1999 OR AABC 2019, AND ASHRAE STANDARD 111. ELIMINATE NOISE AND VIBRATION, AND ASSURE PROPER FUNCTION OF CONTROLS. SUBMIT COMPLETED TEST AND BALANCE REPORT TO OWNER'S REPRESENTATIVE. BALANCING CONTRACTOR SHALL BE INDEPENDENT AND CERTIFIED WITH NEBB OR AABC. BALANCE ALL SYSTEMS WITHIN 5% OF AIR FLOW INDICATED ON DRAWINGS, AND REPORT ALL DISCREPANCIES TO THE HVAC CONTRACTOR FOR CORRECTION. MARK FINAL BALANCE POSITIONS ON DAMPERS WITH PERMANENT MARKER.

COMPLETION REQUIREMENTS: THE CONTRACTOR SHALL PROVIDE, WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS AND AN OPERATING AND MAINTENANCE MANUAL TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE OWNER.

THE RECORD DRAWING SHALL BE OF THE ACTUAL INSTALLATION AND INCLUDE AS A MINIMUM THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT, GENERAL CONFIGURATION OF DUCT AND PIPE DISTRIBUTION SYSTEM INCLUDING SIZES, AND THE TERMINAL AIR OR WATER DESIGN FLOW RATES.

THE OPERATING AND MAINTENANCE MANUALS SHALL BE IN ACCORDANCE WITH INDUSTRY-ACCEPTED STANDARDS AND SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING; (A) SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE; (B) OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED; (C) NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY; (D) HVAC CONTROLS SYSTEMS MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SYSTEM SEQUENCE DESCRIPTIONS. DESIRED OR FIELD-DETERMINED SET-PIONTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR, FOR DIGITAL CONTROL SYSTEMS, IN PROGRAMMING COMMENTS; (E) A COMPLETE NARRATIVE OF HOW EACH SYSTEM EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING SET-POINTS.

### HVAC GENERAL NOTES

- 1. THE INTENT OF THESE PLANS AND SPECIFICATIONS IS TO INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND SERVICES NECESSARY TO FURNISH, INSTALL, TEST, AND ADJUST A COMPLETE WORKABLE HEATING, VENTILATION, AND AIR CONDITIONING SYSTEM AS SHOWN, PRESCRIBED, OR REASONABLY IMPLIED BUT NOT LIMITED TO THAT EXPLICITLY INDICATED IN THE CONTRACT DOCUMENTS, BUT NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE INTENT THEREOF.
- 2. THE ENTIRE INSTALLATION SHALL CONFORM TO THE APPLICABLE CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION. IN THE EVENT OF CONFLICT BETWEEN SPECIFICATIONS, CODES, AND REGULATIONS, THE MORE RESTRICTIVE SHALL APPLY.
- 3. DRAWINGS FOR HVAC WORK ARE DIAGRAMATIC SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. PROVIDE ALL DUCTWORK, MATERIALS, CONNECTIONS, ACCESSORIES, FITTINGS, OFFSETS, TRANSITIONS, DAMPERS AS REQUIRED FOR A COMPLETE WORKABLE SYSTEM.
- 4. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND APPROVED LISTING. ALL EQUIPMENT, PIPING AND SUPPORTS SHALL BE RESTRAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE "GUIDLINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS" BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA). ALL EQUIPMENT SHALL BE ANCHORED TO RESIST THE LATERAL FORCE REQUIREMENTS OF CHAPTER 16 OF THE 2019 CALIFORNIA BUILDING CODE.
- 5. COORDINATE THE INSTALLATION OF THE HVAC SYSTEM WITH ALL OTHER TRADES PRIOR TO FABRICATION OR INSTALLATION. COORDINATE THE LOCATIONS OF PENETRATIONS AND FINAL LOCATION OF ALL EQUIPMENT WITH THE GENERAL CONTRACTOR. PROVIDE EQUIPMENT WEIGHTS, EQUIPMENT DIMENSIONS, PLATFORM SIZES & LOCATIONS, CURB SIZES & LOCATIONS, CONCRETE PAD SIZES AND LOCATIONS AST REQUIRED. COORDINATE LOCATIONS OF GAS & CONDENSATE LINES WITH PLUMBING CONTRACTOR. COORDINTAE LOCATIONS OF POWER, DISCONNECTS, AND CONTROL CONDUIT WITH THE ELECTICAL CONTRACTOR. COORDINATE LOCATIONS OF ALL DIFFUSERS, REGISTERS, AND GRILLES WITH ARCHITECTURAL PLANS, ELECTRICAL LIGHTING PLANS AND ARCHITECTURAL ELEVATIONS.
- 6. DETAILS FOR EQUIPMENT PADS, PLATFORMS, AND FLASHINGS SHALL BE AS INDICATED BY THE ARCHITECTURAL/STRUCTURAL/CIVIL DRAWINGS, UNLESS NOTED OTHERWISE.
- 7. ALL EQUIPMENT, DUCTS, PIPING, SUPPORTS, AND OTHER DEVICES OUTSIDE OF THE BUILDING OR EXPOSED TO WEATHER, SHALL BE COMPLETELY WEATHER-PROOFED.
- 8. OUTSIDE AIR INTAKES SHALL BE AT LEAST 10 FT. AWAY OR 3 FT. BELOW ANY VENT OR EXHAUST
- 9. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. DUCTWORK SHALL BE CONSTRUCTED, ERECTED, INSULATED AND TESTED IN ACCORDANCE CHAPTER 6 OF THE 2019 CALIFORNIA MECHANICAL CODE
- 10. ALL EXHAUST FANS SHALL BE EQUIPED WITH A BACK DRAFT DAMPER

DISCHARGE.

- 11. DUCT AND AIR TRANSFER PENETRATIONS THRU BUILDING ASSEMBLIES REQUIRING PROTECTION SHALL BE PROTECTED WITH FIRE DAMPERS, SMOKE DAMPERS, COMBINATION SMOKE/FIRE DAMPERS AND CEILING RADIATION DAMPERS IN ACCORDANCE WITH SECTION 607 OF THE CALIFORNIA MECHANICIAL CODE. DUCTS NOT REQUIRING DAMPERS SHALL COMPLY WITH SECTION 714 & 717 OF THE 2019 CALIFORNIA BUILDING CODE.
- 12. INSTALL SMOKED DETECTORS AND PROVIDE FOR SMOKE DETECTION AND AUTOMATIC SHUT-OFF OF ALL AIR HANDLING EQUIPMENT IN ACCORDANCE WITH SECTION 606 OF THE 2019 CALIFORNIA MECHANICAL CODE.
- 13. UNLESS NOTED OTHERWISE, ALL LINE VOLTAGE WIRING, CONDUIT, FINAL CONNECTIONS, DISCONNECTS, STARTERS, AND OVER CURRENT PROTECTION DEVICES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THESE MECHANICAL DRAWINGS AND/OR ELECTRICAL DRAWINGS AND/OR ELECTRICAL SECTION OF THE SPECIFICATIONS.
- 14. INSTALL ALL LOW VOLTAGE HVAC CONTROL WIRE AND DEVICES PER PLAN. ALL WIRE SHALL BE IN CONDUIT PROVIDED AND INSTALLED BY THE ELECTICAL CONTRACTOR UNLESS NOTEDED OTHERWISE.
- 15. PROVIDE OWNER WITH THREE COPIES OF A CERTIFIED AIR BALANCE REPORT PREPARED IN BY A THIRD PARTY CERTIFIED BY THE AABC OR NEBB. TEST, ADJUST AND BALANCE THE HVAC SYSTEM IN ACCORDANCE WITH AABC OR NEBB PROCEDURES. PROVIDE START-UP/TEST REPORTS FOR ALL AIR HANDLING EQUIPMENT, FANS, AND REFRIGERATION EQUIPMENT. TEST AND VERIFY PROPER OPERATION OF ALL MAKE-UP AIR/EXHAUST AIR INTERLOCK SYSTEMS AND THIER SEQUENCES OF OPERATION. BALANCE ALL AIR FLOWS WITHIN 5% OF DESIGN VALUES. PERMANENTLY MARK BALANCE POSITION OF ALL REGULATING DEVICES.
- 16. PROVIDE OWNER WITH THREE SETS OF AS-BUILT PLANS AND OPERATIONS AND MAINTENANCE MANUALS. CLEARLY IDENTIFY ALL EQUIPMENT WITH PERMANENT PLASTIC OR METAL LABELS/TAGS (PEN MARKING NOT ACCEPTABLE).
- 17. PROVIDE ONE YEAR WARRANTY ON ALL LABOR, PARTS AND MATERIALS.
- 18. ANY CHANGE OR DEVIATION FROM THESE PLANS OR SPECIFICATIONS SHALL REQUIRE THE WRITTEN APPROVAL OF THE ENGINEER PRIOR TO COMMENCEMENT OF SUCH WORK.

#### 19.0

- a) DUCTS FOR DEMAND CONTROLLED VENTILATION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE FAN MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE PROVISIONS ASHRAE 62.2, TABLE 5.3, OR THE AIRFLOW SHALL BE MEASURED AS REQUIRED BY AND IN COMPLIANCE WITH ASHRAE 62.2, 5.4.
- b) DUCTS FOR KITCHEN COOKTOPS OR RANGES SHALL BE SHOWN OF METAL WITH A SMOOTH INTERIOR. [CMC 504.3].
- 1) IDENTIFY THE DETAILED REQUIREMENTS OF CMC DRYER DUCTS. SPECIFY--
- a) DUCTS FOR DOMESTIC CLOTHES DRYERS SHALL BE INSTALLED IN ACCORDANCE WITH CMC 504.0.
- b) DUCTS FOR DOMESTIC CLOTHES DRYERS SHALL BE RIGID METALLIC DUCTS WITH A MINIMUM MILL THICKNESS OF 16 (0.016-INCH), SHALL HAVE A MINIMUM 4-INCH DIAMETER AND A SMOOTH INTERIOR. THE COMBINED HORIZONTAL AND VERTICAL LENGTH OF THE DUCTS OF THE DUCTS SHALL BE 14-FEET, WHICH SHALL BE REDUCED BY 2-FEET FOR EVERY 90-DEGREE ELBOW IN EXCESS OF TWO ELBOWS.
- c) LISTED CLOTHES DRYER TRANSITION DUCTS NOT MORE THAN 6-FEET IN LENGTH SHALL BE PERMITTED TO CONNECT THE DRYER TO THE EXHAUST DUCTS AS LONG AS THEY ARE NOT CONCEALED WITHIN CONSTRUCTION, AND THEY ARE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

		4	LEGEND
	AxB		DUCT WORK (WIDTHxDEPTH)
	- AxB		LINED DUCT WORK (WIDTHxDEPTH DIMENSIONS ARE FOR I.D.)
			SUPPLY DUCT, SECTION
			RETURN DUCT, SECTION
			EXHAUST DUCT, SECTION
	R.ORD.		RISE OR DROP IN DIRECTION OF AIR FLOW
4		FLEX, CONN.	FLEXIBLE CONNECTION
			DUCT TRANSITION, ROUND AND RECTANGULAR
			SPLITTER DAMPER
			EXTRACTOR AT BRANCH DUCT
			TURNING VANES
	<b>-</b> \\\\\-		FLEXIBLE DUCT
	<b>&gt;</b>		SINGLE LINE DUCT WORK
		AVD	AUTOMATIC VOLUME DAMPER
		MVD	MANUAL VOLUME DAMPER
	•	BDD	BACKDRAFT DAMPER
		MD	MODULATING DAMPER
		AFD	AUTOMATIC FIRE DAMPER
		AD	ACCESS DOOR
	<b>→</b>	SD	SUPPLY DIFFUSER
		RR	RETURN REGISTER
	<b>✓</b>	ER	EXHAUST REGISTER
		SWR	SIDE WALL SUPPLY REGISTER
		SWE	SIDE WALL RETURN OR EXHAUST
	·····	LD	LINEAR DIFFUSER
	— D.L. —►	DL	DOOR LOUVER
	— U.C. —►	UC	UNDER CUT DOOR
		VAV	VARIABLE AIR VOLUME
	T		THERMOSTAT
	S		DUCT SMOKE DECTECTOR
		SPE	CIAL NOTICE TO CONTRACTORS

#### SPECIAL NOTICE TO CONTRACTORS

- 1. ALL CONTRACTORS (GENERAL CONTRACTOR AND SUB-CONTRACTORS) BIDDING THIS PROJECT ARE REQUIRED TO VISIT THE JOB SITE AND VERIFY THE EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. CONTRACTORS ARE TO CAREFULLY REVIEW ALL CONSTRUCTION DOCUMENTS AND NOTE ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CONDITIONS OBSERVED AT THE JOB SITE PRIOR TO SUBMISSION OF ANY BID. THE BUILDING OWNER REPRESNENTATIVE LISTED BELOW MAY BE CONTACTED FOR ACCESS TO THE JOB SITE.
- 2. CONTRACTORS ARE RESPONSIBLE FOR VERIFYING THE LOCATION AND CONDITION OF ALL POINTS OF CONNECTION, LOCATION AND CONDITION OF ALL BUILDING (ROOF/FLOOR/CEILING) PENETRATIONS, LOCATION AND CONDITION OF ALL UTILITIES AND BUILDING SYSTEMS INCLUDING, BUT NOT LIMITED TO, GAS, WATER, SEWER, VENT, ELECTRICAL, BUILDING MECHANICAL SYSTEMS, DUCT CONNECTIONS, EXHAUST/OUTSIDE AIR CONNECTIONS, SECURITY, FIRE ALARM, DATA, AND PHONE PRIOR TO SUBMISSION OF THEIR BID.
- 3. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CONDITIONS OBSERVED SHALL BE BROUGHT TO THE ATTENTION, IN WRITING, TO THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 4. NO WORK SHALL BE DONE ON ANY PART OF THE BUILDING BEYOND THE POINT INDICATED IN EACH SUCCESSIVE INSPECTION WITHOUT FIRST OBTAINING THE WRITTEN APPROVAL OF THE CODE OFFICIAL. NO CONSTRUCTION SHALL BE CONCEALED WITHOUT BEING INSPECTED AND APPROVED.

## CLIENT:

ADDRESS:

3415 CALIFORNIA ST. SAN FRANCISCO, CA 94118

#### **CONFIDENTIALITY STATEMENT:**

ALL DRAWINGS AND WRITTEN MATERIALS

APPEARING HEREIN CONSTITUTE THE

ORIGINAL AND UNPUBLISHED WORK OF THE

DESIGNER AND THE SAME MAY NOT BE

CONSENT OF THE DESIGNER.

DUPLICATED, USED OR DISCLOSED WITHOUT

#### **NOTES:**

- ALL DIMENSIONS HEREIN ARE IN IMPERIAL UNITS UNLESS STATED OTHERWISE.
   THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DESIGNER, ENGINEER OR SPECIALIST DRAWINGS AND
- SPECIFICATIONS.

  3. THE CONTRACTOR MUST CHECK ALL DIMENSION AT SITE BEFORE COMMENCING
- 4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY TEMPORARY SUPPORT TO THE BUILDING AND ANY ADJACENT STRUCTURES.

REV. NO	D. DESCRIPTION	DATE	BY
00	FOR APPROVAL	04/22	A.B

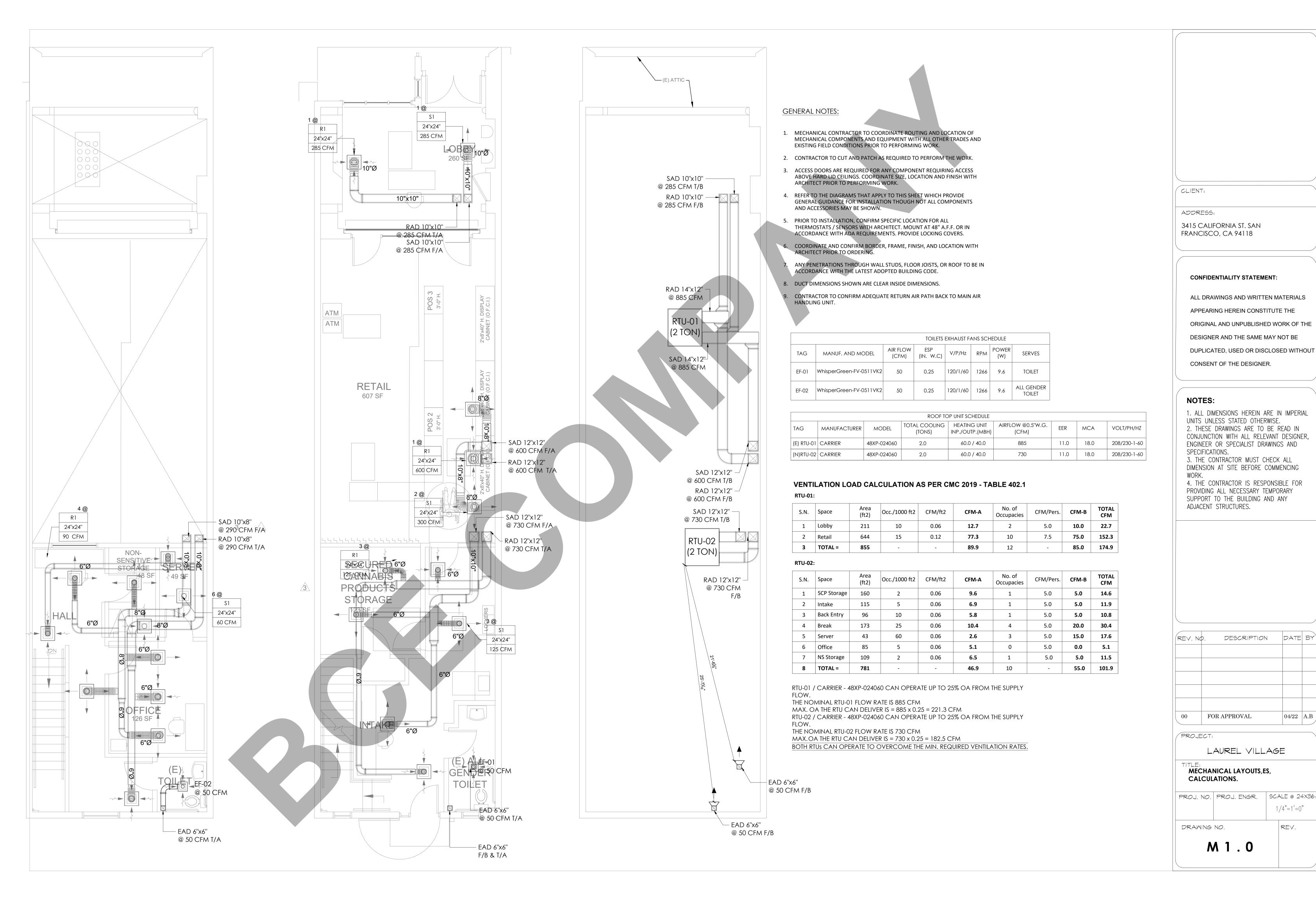
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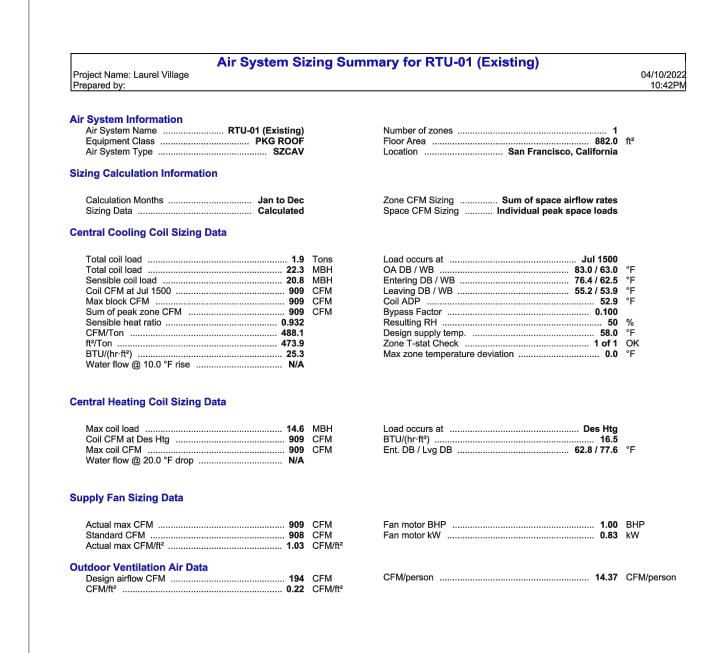
LAUREL VILLAGE

MECHANICAL LIST OF SYMBOLS AND GENERAL NOTES.

PROJ. NO.	PROJ. ENGR.	SC+	ALE @ 24X3
			NTS
DRAWING	NO.		REV.

M0.0





Hourly Analysis Program 5.10

Install Electrical Connections

Transformer Protection

Check for Refrigerant Leaks .

Unit Sequence of Operation .

Check Heating Control .

Check Gas Input . Adjust Gas Input .

Limit Switches . .

Rollout Switch .

MAINTENANCE . . . Air Filter . .

Flue Gas Passageways .

Check Burner Flame

48XP Sequence of Operation

Airflow and Temperature Rise .

Evaporator Blower and Motor . .

Heating Sequence of Operation .

Start-Up Cooling & Make Adjustments

Checking Cooling Control Operation ...

Checking & Adjusting Refrigerant Charge ...

Indoor Airflow and Airflow Adjustments . .

Start-Up Heating & Make Adjustments .

Easy Select<sup>™</sup>.

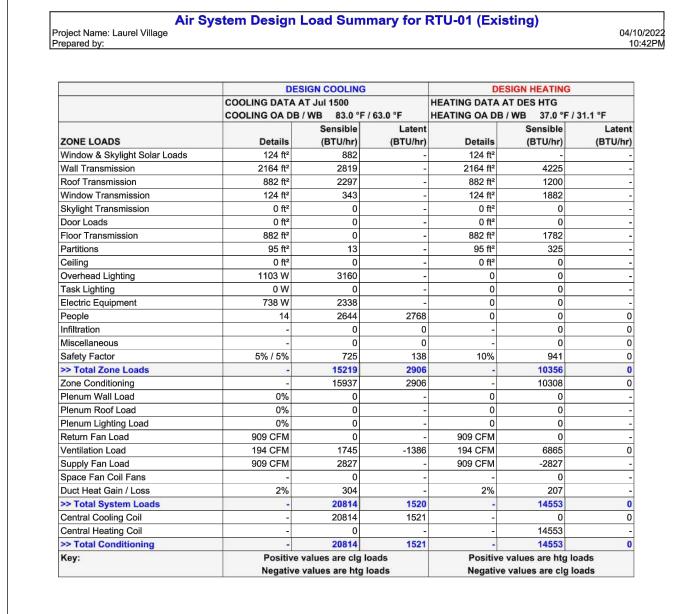
PRE-START-UP ...

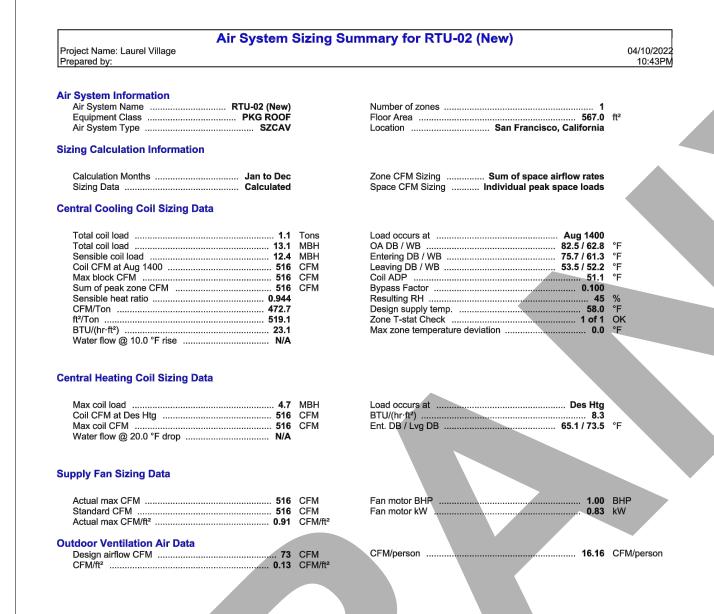
START-UP...

High-Voltage Connections .

Control Voltage Connections .

Special Procedures for 208-V Operation .





Prepared by:						
	DE	SIGN COOLING		DES	IGN HEATING	
	COOLING DATA	AT Aug 1400	/ 62.8 °F	HEATING DATA A	T DES HTG	31.1 °F
ZONE LOADS	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Late (BTU/h
Window & Skylight Solar Loads	36 ft²	505	-	36 ft²	-	1000
Wall Transmission	659 ft²	896	-	659 ft²	1287	
Roof Transmission	356 ft²	950	-	356 ft²	484	
Window Transmission	36 ft²	91	-	36 ft²	546	
Skylight Transmission	O ft²	0	-	0 ft²	0	
Door Loads	0 ft²	0	-	0 ft²	0	
Floor Transmission	254 ft²	-16	-	254 ft²	650	
Partitions	620 ft <sup>2</sup>	89	-	620 ft <sup>2</sup>	1624	
Ceiling	O ft²	0	-	0 ft²	0	
Overhead Lighting	709 W	2004	-	0	0	
Task Lighting	0 W	0	-	0	0	
Electric Equipment	826 W	2601	-	0	0	
People	5	866	923	0	0	
Infiltration	-	0	0	-	0	
Miscellaneous	-	0	0	-	0	
Safety Factor	5% / 5%	399	46	10%	459	
>> Total Zone Loads	-	8385	969	<u>.</u>	5050	
Zone Conditioning	-	8759	969	-	4865	
Plenum Wall Load	0%	0	-	0	0	
Plenum Roof Load	0%	0	-	0	0	
Plenum Lighting Load	0%	0	-	0	0	
Return Fan Load	516 CFM	0	-	516 CFM	0	
Ventilation Load	73 CFM	618	-232	73 CFM	2564	
Supply Fan Load	516 CFM	2827	-	516 CFM	-2827	
Space Fan Coil Fans	-	0		-	0	
Duct Heat Gain / Loss	2%	168		2%	101	
>> Total System Loads	-	12371	737	) Y = 1	4703	
Central Cooling Coil	-	12371	737	-	0	
Central Heating Coil	-	0	_	-	4703	
>> Total Conditioning	-	12371	737		4703	

48XP(N)
Performance™ 13 SEER Single Packaged Air Conditioner
and Gas Furnace System with Puron® (R-410A) Refrigerant
Single and Three Phase
2-5 Nominal Tons (Sizes 024-060) (Carrier) Turn to the Experts. **Installation Instructions** NOTE: Read the entire instruction manual before starting the installation. NOTE: Installer: Make sure the Owner's Manual and Service Instructions are left with the unit after installation. TABLE OF CONTENTS SAFETY CONSIDERATIONS INTRODUCTION . RECEIVING AND INSTALLATION . Check Equipment Identify Unit Inspect Shipment . Provide Unit Support Roof Curb . . . . Slab Mount ... Ground Mount . Field Fabricate Ductwork Provide Clearances . Rig and Place Unit . Connect Condensate Drain Install Flue Hood . . Install Gas Piping . Fig. 1 - Unit 48XP Install Duct Connections . Configuring Units for Downflow (Vertical) Combustion Air Blower .

Limit Switch ...

Burner Ignition .

Main Burners

Drain Pan ...

Gas Input . .

Puron® Items .

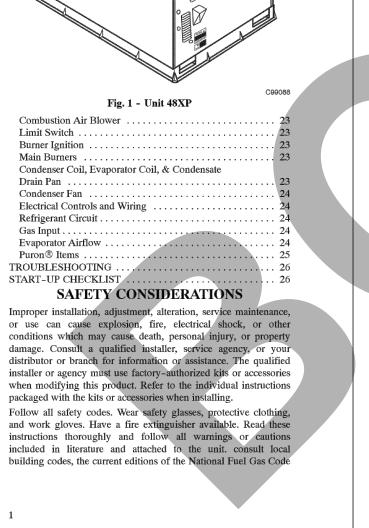
Condenser Fan

Refrigerant Circuit . .

Evaporator Airflow .

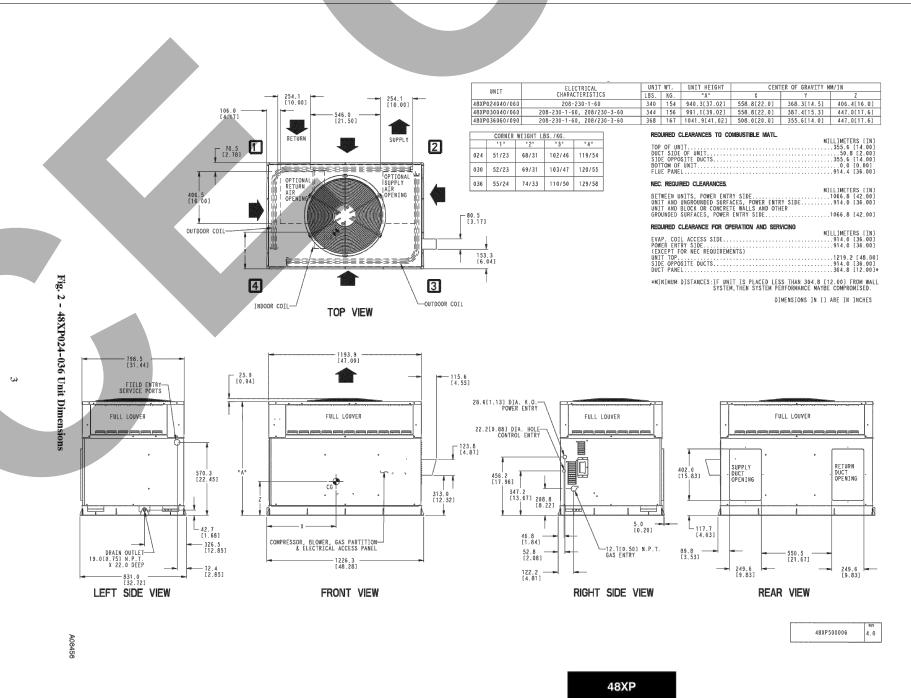
TROUBLESHOOTING .

START-UP CHECKLIST



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Hourly Analysis Program 5.10



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Hourly Analysis Program 5.10

Quantity		7.0	8.0	8.0	9.5	9.5 4.3	10.7 4.9	10.7 4.9			
REFRIGERANT (R – 410A) Quantity (Ib)	7.3 3.3	7.3 3.3		3.6							
(kg) REFRIGERANT METERING	3.3	3.3 3.6 3.6 4.3 4.9 4.9 TXV									
DEVICE CONDENSER COIL					· ·						
RowsFins/in.	221	221	221	221	221	221	221	221			
Face Area (sq ft) CONDENSER FAN	11.95	11.95	11.95	11.95	13.7	13.7	15.4	15.4			
Nominal Cfm	2350	2350	2350	2350	2800	2800	2800	2800			
Diameter (in.) (mm)	22 559	22 559	22 559	22 559	22 559	22 559	22 559	22 559			
Motor Hp (Rpm)	1/8 (825)	1/8 (825)	1/8 (825)	1/8 (825)	1/8 (825)	1/8 (825)					
EVAPORATOR COIL RowsFins/in.	315	315	315	315	415	415	315	315			
Face Area (sq ft)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7			
EVAPORATOR BLOWER Nominal Airflow (Cfm)	770	770	960	960	1150	1150	1400	1400			
Size (in.)	10x10	10x10	10x10	10x10	11x10	11x10	11x10	11x10			
(mm) Motor (hp)	254x254 1/2	254x254 1/2	254x254 1/2	254x254 1/2	279x254 3/4	279x254 3/4	279x254 3/4	279x254 3/4			
FURNACE SECTION*	244	238	244	238	238	338	238	238			
Burner Orifice No. (QtyDrill Size) Natural Gas Burner Orifice No. (QtyDrill Size) Propane Gas HIGH-PRESSURE SWITCH (psig)	250	246	250	246	246	346	246	246			
HIGH-PRESSURE SWITCH (psig) Cut-out Reset (Auto)					-/15 -/25						
LOSS-OF-CHARGE / LOW-PRESSURE SWITCH											
(Liquid Line) (psig) Cut-out Reset (auto)					-/—5 /—10						
RETURN-AIR FILTERS Throwaway†					, 10						
(in.) (mm)			20x2 508x6					lx30x1 x762x25			
Based on altitude of 0 to 2000 ft (0-610 m).			000,10	10/120				л, одлао			
T. 1.1	1 D) 1	ID 4 H	14 4057D 46	N 41 N							
UNIT SIZE 48XP	1 – Physic	al Data - U	048115	04813	06	0090	060115	060130			
	1 – Physic				06	0090 5 59	060115 5 559	060130 5 559			
UNIT SIZE 48XP NOMINAL CAPACITY (ton) SHIPPING WEIGHT (Ib) (kg)	1 – Physic	048090 4	048115	04813	5 06 5 2	5	5	5			
UNIT SIZE 48XP NOMINAL CAPACITY (ton) SHIPPING WEIGHT (lb)	1 – Physic	048090 4 512	048115 4 512	04813 4 512	30 06 5	5 59	5 559	5 559			
UNIT SIZE 48XP  NOMINAL CAPACITY (ton)  SHIPPING WEIGHT (lb) (kg)  COMPRESSORS Quantity  REFRIGERANT (R-410A) Quantity (lb)	1 – Physic	048090 4 512 232	048115 4 512 232	04813 4 512 232	5 Scroll 1 5 1 1	5 59 554 3.2	5 559 254	5 559 254			
UNIT SIZE 48XP  NOMINAL CAPACITY (ton)  SHIPPING WEIGHT (lb)  (kg)  COMPRESSORS  Quantity  REFRIGERANT (R - 410A) Quantity (lb)  (kg)  REFRIGERANT METERING DEVICE	1 – Physic	048090 4 512 232 11.25 5.1	048115 4 512 232 11.25 5.1	04813 4 512 232 11.25 5.1	50 066 Scroll 1 1 5 1	5 59 54 3.2 3.0	5 559 254 13.2 6.0	5 559 254 13.2 6.0			
UNIT SIZE 48XP  NOMINAL CAPACITY (ton)  SHIPPING WEIGHT (lb) (kg)  COMPRESSORS Quantity  REFRIGERANT (R – 410A) Quantity (lb) (kg)  REFRIGERANT METERING DEVICE CONDENSER COIL RowsFins/in.	1 – Physic	048090 4 512 232 11.25 5.1	048115 4 512 232 11.25 5.1 221	04813 4 512 232 11.24 5.1	Scroll 1 5 16 TXV	5 59 54 3.2 3.0	5 559 254 13.2 6.0	5 559 254 13.2 6.0			
UNIT SIZE 48XP NOMINAL CAPACITY (ton) SHIPPING WEIGHT (Ib) (kg) COMPRESSORS Quantity REFRIGERANT (R-410A) Quantity (Ib) (kg) REFRIGERANT METERING DEVICE CONDENSER COIL ROWSFins/in. Face Area (sq ft) CONDENSER FAN	1 – Physic	048090 4 512 232 11.25 5.1 221 17.4	048115 4 512 232 11.25 5.1 221 17.4	04813 4 512 232 11.28 5.1 22 17.4	Scroll 1 5 1 6 TXV 1 2.	5 59 54 3.2 3.0 21 9.3	5 559 254 13.2 6.0 221 19.3	5 559 254 13.2 6.0 221 19.3			
UNIT SIZE 48XP  NOMINAL CAPACITY (ton)  SHIPPING WEIGHT (ib) (kg)  COMPRESSORS Quantity  REFRIGERANT (R – 410A) Quantity (ib) (kg)  REFRIGERANT METERING DEVICE CONDENSER COIL ROWSFins/in. Face Area (sq ft)  CONDENSER FAN Nominal Cfm	1 – Physic	048090 4 512 232 11.25 5.1 221 17.4 3300	048115 4 512 232 11.25 5.1 221 17.4 3300	04813 4 5112 232 111.28 5.1 22 17.4	Scroll 1 5 1 6 TXV 1 2. 1 1 2. 1 1 1 2. 1 1 1 2. 1 1 1 1 2. 1 1 1 1	5 59 54 3.2 3.0 21 9.3 300	5 559 254 13.2 6.0 221 19.3 3300	5 559 254 13.2 6.0 221 19.3 3300			
UNIT SIZE 48XP  NOMINAL CAPACITY (ton)  SHIPPING WEIGHT (Ib) (kg)  COMPRESSORS Quantity  REFRIGERANT (R – 410A) Quantity (Ib) (kg)  REFRIGERANT METERING DEVICE CONDENSER COIL RowsFins/in. Face Area (sq ft)  CONDENSER FAN Nominal Cfm Diameter (in.) (mm)	1 – Physic	048090 4 512 232 11.25 5.1 221 17.4 3300 22 559	048115 4 512 232 11.25 5.1 221 17.4 3300 22 559	04813 4 5112 232 11.25 5.1 22 17.4 3300 22 559	Scroll 1 5 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	5 559 554 3.2 3.0 21 9.3 300 22 59	5 559 254 13.2 6.0 221 19.3 3300 22 559	5 559 254 13.2 6.0 221 19.3 3300 22 559			
UNIT SIZE 48XP  NOMINAL CAPACITY (ton)  SHIPPING WEIGHT (Ib) (kg)  COMPRESSORS Quantity  REFRIGERANT (R-410A) Quantity (Ib) (kg)  REFRIGERANT METERING DEVICE CONDENSER COIL ROWSFins/in. Face Area (sq ft)  CONDENSER FAN Nominal Cfm Diameter (in.)	1 – Physic	048090 4 512 232 11.25 5.1 221 17.4 3300 22	048115 4 512 232 11.25 5.1 221 17.4 3300 22	04813 4 512 232 111.25 5.1 22 17.4 3300 22	Scroll 1 5 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	5 59 59 54 3.2 3.0 21 9.3 300 22	5 559 254 13.2 6.0 221 19.3	5 559 254 13.2 6.0 221 19.3 3300 22			
UNIT SIZE 48XP  NOMINAL CAPACITY (ton)  SHIPPING WEIGHT (Ib) (kg)  COMPRESSORS Quantity  REFRIGERANT (A) Quantity (Ib) (kg)  REFRIGERANT METERING DEVICE CONDENSER COIL RowsFins/in. Face Area (sq ft)  CONDENSER FAN Nominal Cfm Diameter (in.) (mm) Motor Hp (Rpm)  EVAPORATOR COIL ROWSFins/in.	1 – Physic	048090 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415	048115 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415	04813 4 5112 232 11.28 5.1 22 17.4 3300 22 559 1/4 (11)	Scroll 1 5 1 6 TXV 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 2. 1 1 1 1	5	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417			
UNIT SIZE 48XP NOMINAL CAPACITY (ton) SHIPPING WEIGHT (Ib) (kg) COMPRESSORS Quantity REFRIGERANT (R – 410A) Quantity (Ib) (kg) REFRIGERANT METERING DEVICE CONDENSER COIL ROWSFins/in. Face Area (sq ft) CONDENSER FAN Nominal Cfm Diameter (in.) (mm) Motor Hp (Rpm) EVAPORATOR COIL	1 – Physic	048090 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7	048115 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7	04813 4 5122 232 111.29 5.1 22 17.4 3300 22 559 1/4 (11) 419	Scroll 1 5 1 6 TXV 1 2.1 1 1 2.1 1 1 2.1 1 1 2.1 1 1 1 1 1	5 559 554 3.2 5.0 21 9.3 300 22 559 11100) 17 5.7	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7			
UNIT SIZE 48XP  NOMINAL CAPACITY (ton)  SHIPPING WEIGHT (Ib) (kg)  COMPRESSORS Quantity  REFRIGERANT MORE IN THE STAND S	1 – Physic	048090 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7	048115 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7	04813 4 5112 232 11.24 5.1 22 17.4 3300 22 559 1/4 (11) 414 4.7	Scroll 1 5 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1	5	5 5559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7			
UNIT SIZE 48XP NOMINAL CAPACITY (ton) SHIPPING WEIGHT (Ib) (kg) COMPRESSORS Quantity REFRIGERANT (R - 410A) Quantity (Ib) (kg) REFRIGERANT METERING DEVICE CONDENSER COIL ROWSFins/in. Face Area (sq ft) CONDENSER FAN Nominal Cfm Diameter (in.) (mm) Motor Hp (Rpm) EVAPORATOR COIL ROWSFins/in. Face Area (sq ft)	1 – Physic	048090 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7	048115 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7	04813 4 5122 232 111.29 5.1 22 17.4 3300 22 559 1/4 (11) 419	Scroll 1 2. TXV 1 2. 1 3 3 5 5 4. 5 4. 5 10 11 10 11 11 11 11 11 11 11 11 11 11	5 559 554 3.2 5.0 21 9.3 300 22 559 11100) 17 5.7	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7			
UNIT SIZE 48XP  NOMINAL CAPACITY (ton)  SHIPPING WEIGHT (Ib) (kg)  COMPRESSORS Quantity  REFRIGERANT (R-410A) Quantity (Ib) (kg)  REFRIGERANT METERING DEVICE  CONDENSER COIL RowsFins/in. Face Area (sq ft)  CONDENSER FAN  Nominal Cfm Diameter (in.) (mm)  Motor Hp (Rpm)  EVAPORATOR COIL  RowsFins/in. Face Area (sq ft)  EVAPORATOR BLOWER  Nominal Airflow (Cfm) Size (in.) (mm)  Motor (hp)	1 – Physic	048090 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7	048115 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7	04813 4 5112 232 11.28 5.1 22 17.4 3300 22 559 1/4 (11) 418 4.7	Scroll  TXV  Scroll  TXV  Scroll  TXV  Scroll  Scroll	5   5   5   5   5   5   5   5   5   5	5 5559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7			
UNIT SIZE 48XP NOMINAL CAPACITY (ton) SHIPPING WEIGHT (Ib) (kg) COMPRESSORS Quantity REFRIGERANT (R - 410A) Quantity (Ib) (kg) REFRIGERANT METERING DEVICE CONDENSER COIL ROWSFins/in. Face Area (sq ft) CONDENSER FAN Nominal Cfm Diameter (in.) (mm) Motor Hp (Rpm) EVAPORATOR COIL ROWSFins/in. Face Area (sq ft) EVAPORATOR BLOWER Nominal Airflow (Cfm) Size (in.) (mm) Motor (hp) FURNACE SECTION* Burner Orifice No. (QtyDrill Size) Natural Gas	5	048090 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7 1400 11x10 279x254 3/4 (1075) 338	048115 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7 1400 11x10 279x254 3/4 (1075) 333	04813 4 512 232 11.29 5.1 22' 17.4 3300 22 559 1/4 (11) 419 4.7 1400 11x11 279x2: 3/4 (10) 33'	Scroll 1	5559 1554 3.2 3.021 9.3 300 222 559 (1100)17 5.7 710 xx10 xx254 (1040)38	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7 1710 11x10 279x254 1.0 (1040) 333	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7 1710 11x10 279x254 1.0 (1040) 331			
UNIT SIZE 48XP  NOMINAL CAPACITY (ton)  SHIPPING WEIGHT (Ib) (kg)  COMPRESSORS Quantity  REFRIGERANT (R-410A) Quantity (Ib) (kg)  REFRIGERANT METERING DEVICE CONDENSER COIL RowsFins/in. Face Area (sq ft)  CONDENSER FAN Nominal Cfm Diameter (in.) (mm) Motor Hp (Rpm)  EVAPORATOR COIL RowsFins/in. Face Area (sq ft)  EVAPORATOR BLOWER Nominal Airflow (Cfm) Size (in.) (mm) Motor (hp) FURNACE SECTION*  Burner Orifice No. (QtyDrill Size) Natural Gas Burner Orifice No. (QtyDrill Size) Propane Ga	5	048090 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7 1400 11x10 279x254 3/4 (1075)	048115 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7 1400 11x10 279x254 3/4 (1075)	04813 4 512 232 11.28 5.1 22 17.4 3300 22 559 1/4 (11) 418 4.7 1400 11x11 279x2: 3/4 (10)	Scroll 1	5   559   559   554   554   554   554   554   555   55	5 5559 254 13.2 6.0 221 19.3 3300 22 2559 1/4 (1100) 417 5.7 1710 11x10 279x254 1.0 (1040)	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7 1710 11x10 279x254 1.0 (1040)			
UNIT SIZE 48XP NOMINAL CAPACITY (ton) SHIPPING WEIGHT (Ib) (kg) COMPRESSORS Quantity REFRIGERANT (R - 410A) Quantity (Ib) (kg) REFRIGERANT METERING DEVICE CONDENSER COIL ROWSFins/in. Face Area (sq ft) CONDENSER FAN Nominal Cfm Diameter (in.) (mm) Motor Hp (Rpm) EVAPORATOR COIL ROWSFins/in. Face Area (sq ft) EVAPORATOR BLOWER Nominal Airflow (Cfm) Size (in.) (mm) Motor (hp) FURNACE SECTION* Burner Orifice No. (QtyDrill Size) Natural Gas Burner Orifice No. (QtyDrill Size) Propane Ga HIGH-PRESSURE SWITCH (psig) Cut-out	5	048090 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7 1400 11x10 279x254 3/4 (1075) 338	048115 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7 1400 11x10 279x254 3/4 (1075) 333	04813 4 512 232 11.29 5.1 22° 17.4 3300 22 559 1/4 (11) 419 4.7 1400 11x11 279x2: 3/4 (10) 33° 34°	Scroll  TXV  TXV  Scroll  TXV  Scroll  Scroll	5559 1554 3.2 3.021 9.3 300 222 559 (1100)17 5.7 710 xx10 xx254 (1040)38	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7 1710 11x10 279x254 1.0 (1040) 333	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7 1710 11x10 279x254 1.0 (1040) 331			
UNIT SIZE 48XP  NOMINAL CAPACITY (ton)  SHIPPING WEIGHT (Ib) (kg)  COMPRESSORS Quantity  REFRIGERANT (R-410A) Quantity (Ib) (kg)  REFRIGERANT METERING DEVICE CONDENSER COIL RowsFins/in. Face Area (sq ft)  CONDENSER FAN Nominal Cfm Diameter (in.) (mm) Motor Hp (Rpm)  EVAPORATOR COIL RowsFins/in. Face Area (sq ft)  EVAPORATOR BLOWER Nominal Airflow (Cfm) Size (in.) (mm)  Motor (hp)  FURNACE SECTION*  Burner Orifice No. (QtyDrill Size) Natural Gas Burner Orifice No. (QtyDrill Size) Propane Ga	5 18	048090 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7 1400 11x10 279x254 3/4 (1075) 338	048115 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7 1400 11x10 279x254 3/4 (1075) 333	04813 4 512 232 11.29 5.1 22° 17.4 3300 22 559 1/4 (11) 419 4.7 1400 11x11 279x2: 3/4 (10) 33° 34°	Scroll 1 5 1 6 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5559 1554 3.2 3.021 9.3 300 222 559 (1100)17 5.7 710 xx10 xx254 (1040)38	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7 1710 11x10 279x254 1.0 (1040) 333	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7 1710 11x10 279x254 1.0 (1040) 331			
UNIT SIZE 48XP NOMINAL CAPACITY (ton) SHIPPING WEIGHT (Ib) (kg) COMPRESSORS Quantity REFRIGERANT (R - 410A) Quantity (Ib) (kg) REFRIGERANT METERING DEVICE CONDENSER COIL ROWSFins/in. Face Area (sq ft) CONDENSER FAN Nominal Cfm Diameter (in.) (mm) Motor Hp (Rpm) EVAPORATOR COIL ROWSFins/in. Face Area (sq ft) EVAPORATOR BLOWER Nominal Airflow (Cfm) Size (in.) (mm) Motor (hp) FURNACE SECTION* Burner Orifice No. (QtyDrill Size) Natural Gas Burner Orifice No. (QtyDrill Size) Propane Ga HIGH-PRESSURE SWITCH (psig) Cut-out Reset (Auto) LOSS-OF-CHARGE / LOWER LOSSURE SWITCH (Lose) Line) (psig)	5 18	048090 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7 1400 11x10 279x254 3/4 (1075) 338	048115 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7 1400 11x10 279x254 3/4 (1075) 333	04813 4 512 232 11.29 5.1 22° 17.4 3300 22 559 1/4 (11) 419 4.7 1400 11x11 279x2: 3/4 (10) 33° 34°	Scroll  TXV  TXV  Scroll  TXV  Scroll  Scroll	5559 1554 3.2 3.021 9.3 300 222 559 (1100)17 5.7 710 xx10 xx254 (1040)38	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7 1710 11x10 279x254 1.0 (1040) 333	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7 1710 11x10 279x254 1.0 (1040) 331			
UNIT SIZE 48XP  NOMINAL CAPACITY (ton)  SHIPPING WEIGHT (Ib) (kg)  COMPRESSORS Quantity  REFRIGERANT (R-410A) Quantity (Ib) (kg)  REFRIGERANT METERING DEVICE CONDENSER COIL RowsFins/in. Face Area (sq ft)  CONDENSER FAN Nominal Cfm Diameter (in.) (mm) Motor Hp (Rpm)  EVAPORATOR COIL ROWSFins/in. Face Area (sq ft)  EVAPORATOR BLOWER Nominal Airflow (Cfm) Size (in.) (mm) Motor (hp) FURNACE SECTION* Burner Orifice No. (CtyDrill Size) Natural Gas Burner Orifice No. (CtyDrill Size) Propane Ga HIGH-PRESSURE SWITCH (psig) Cut-out Reset (Auto)  LOSS-OF-CHARGE / LOW-PRESSURE SWITCH (	5 18	048090 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7 1400 11x10 279x254 3/4 (1075) 338	048115 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7 1400 11x10 279x254 3/4 (1075) 333	04813 4 5112 232 11.24 5.1 22 17.4 3300 22 559 1/4 (11) 418 4.7 1400 11x1( 279x2) 3/4 (10) 33 34	Scroll  TXV  TXV  TXV  TXV  TXV  TXV  TXV  T	5559 1554 3.2 3.021 9.3 300 222 559 (1100)17 5.7 710 xx10 xx254 (1040)38	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7 1710 11x10 279x254 1.0 (1040) 333	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7 1710 11x10 279x254 1.0 (1040) 331			
UNIT SIZE 48XP NOMINAL CAPACITY (ton) SHIPPING WEIGHT (Ib) (kg)  COMPRESSORS Quantity REFRIGERANT (R - 410A) Quantity (Ib) (kg) REFRIGERANT METERING DEVICE CONDENSER COIL ROWSFins/in. Face Area (sq ft) CONDENSER FAN Nominal Cfm Diameter (in.) (mm) Motor Hp (Rpm) EVAPORATOR COIL ROWSFins/in. Face Area (sq ft) EVAPORATOR BLOWER Nominal Airflow (Cfm) Size (in.) (mm) Motor (hp) FURNACE SECTION* Burner Orifice No. (QtyDrill Size) Propane Ga HIGH-PRESSURE SWITCH (psig) Cut-out Reset (Auto) LIOSS-OF-CHARGE / LOW-PRESSURE SWITCH ( Line) (psig) Cut-out Reset (auto)	5 18	048090 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7 1400 11x10 279x254 3/4 (1075) 338	048115 4 512 232 11.25 5.1 221 17.4 3300 22 559 1/4 (1100) 415 4.7 1400 11x10 279x254 3/4 (1075) 333	04813 4 5112 232 11.24 5.1 22 17.4 3300 22 559 1/4 (11) 418 4.7 1400 11x1( 279x2) 3/4 (10) 33 34	Scroll  TXV  TXV  Serving the serving term of	5559 1554 3.2 3.021 9.3 300 222 559 (1100)17 5.7 710 xx10 xx254 (1040)38	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7 1710 11x10 279x254 1.0 (1040) 333	5 559 254 13.2 6.0 221 19.3 3300 22 559 1/4 (1100) 417 5.7 1710 11x10 279x254 1.0 (1040) 331			

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Table 1 – Physical Data - Unit 48XP

UNIT SIZE 48XP NOMINAL CAPACITY (ton SHIPPING WEIGHT (lb)

Hourly Analysis Program 5.10

CLIENT:

ADDRESS:

3415 CALIFORNIA ST. SAN FRANCISCO, CA 94118

#### **CONFIDENTIALITY STATEMENT:**

ALL DRAWINGS AND WRITTEN MATERIALS

APPEARING HEREIN CONSTITUTE THE

ORIGINAL AND UNPUBLISHED WORK OF THE

DESIGNER AND THE SAME MAY NOT BE

DUPLICATED, USED OR DISCLOSED WITHOUT

CONSENT OF THE DESIGNER.

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1. ALL DIMENSIONS HEREIN ARE IN IMPERIAL UNITS UNLESS STATED OTHERWISE.

2. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DESIGNER, ENGINEER OR SPECIALIST DRAWINGS AND

SPECIFICATIONS. 3. THE CONTRACTOR MUST CHECK ALL

DIMENSION AT SITE BEFORE COMMENCING

4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY TEMPORARY SUPPORT TO THE BUILDING AND ANY ADJACENT STRUCTURES.

EV. NO	D. DESCRIPTION	DATE	BY
00	FOR APPROVAL	04/22	A.B
-			

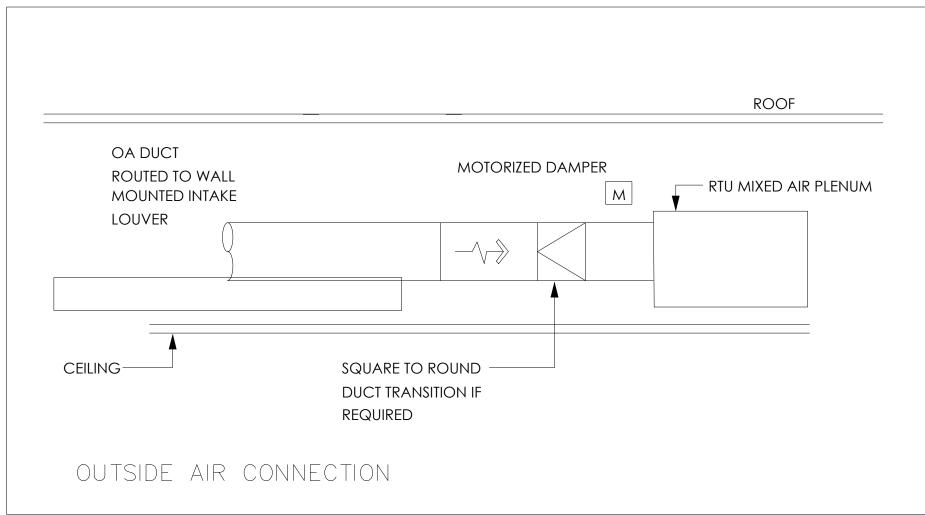
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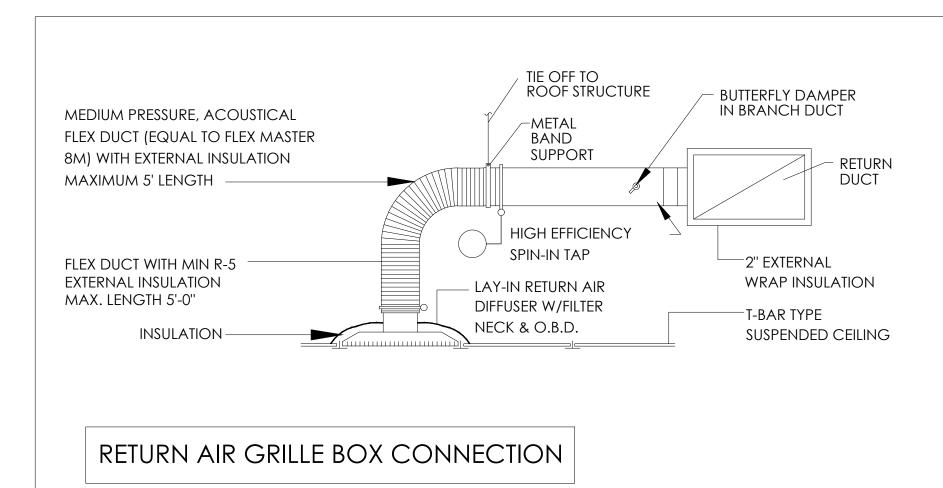
LAUREL VILLAGE

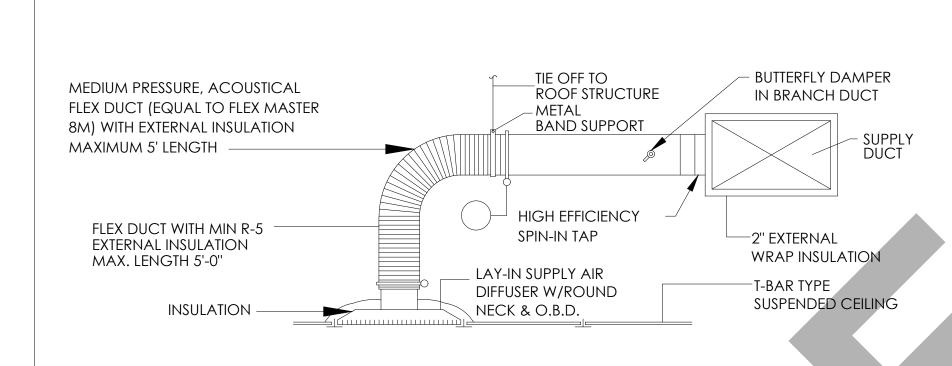
#### MECHANICAL CALCULATION & **CATALOGS**

SCALE @ 24X36: PROJ. NO. PROJ. ENGR. DRAWING NO. REV.

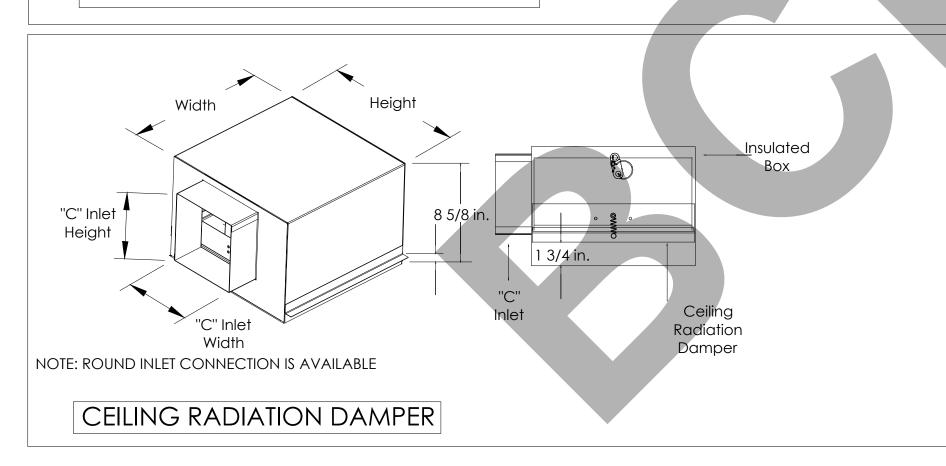
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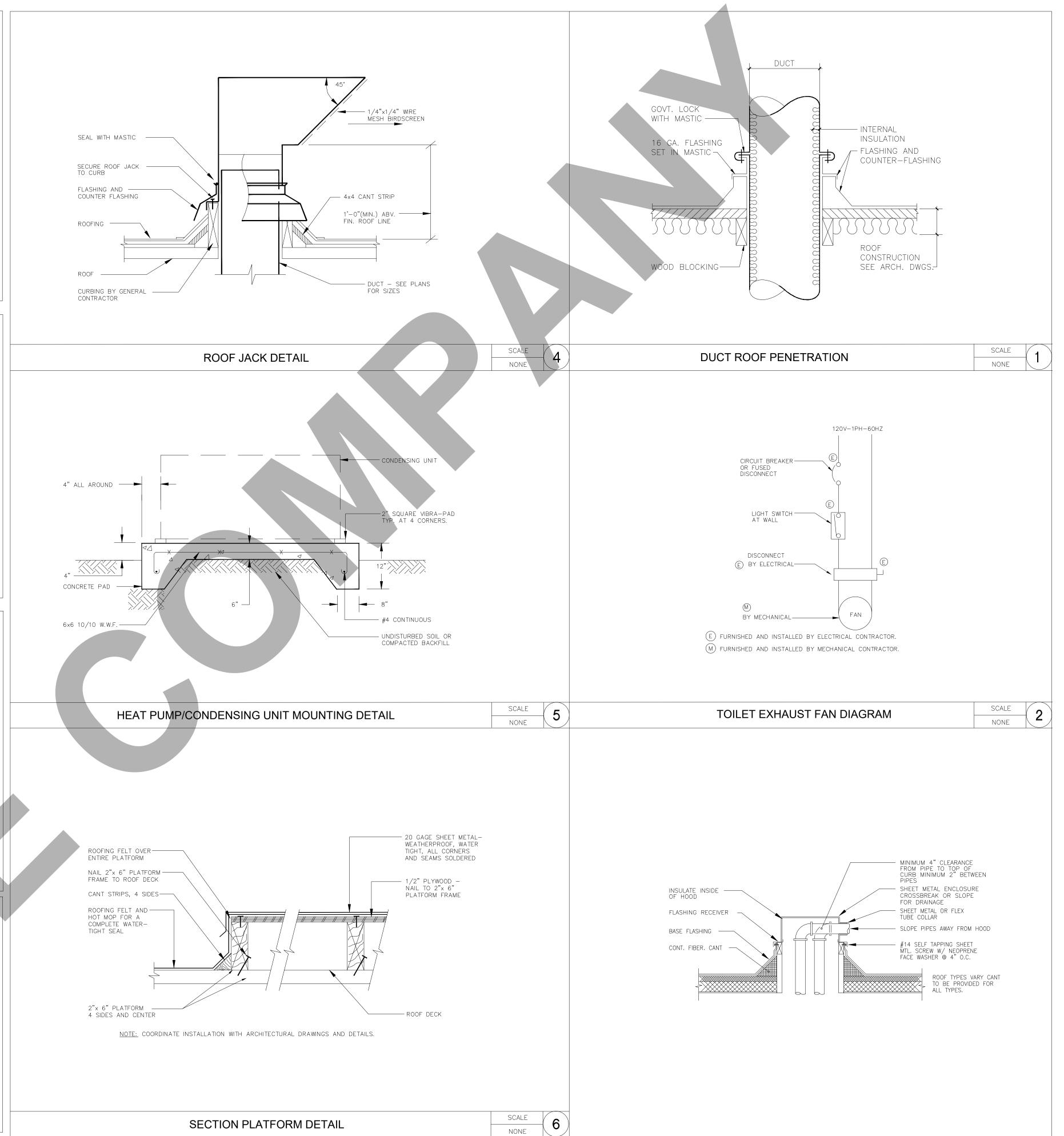






### SUPPLY AIR DIFFUSER CONNECTION





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 THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DESIGNER,

ENGINEER OR SPECIALIST DRAWINGS AND SPECIFICATIONS.

3. THE CONTRACTOR MUST CHECK ALL

DIMENSION AT SITE BEFORE COMMENCING WORK.

4. THE CONTRACTOR IS RESPONSIBLE FOR

PROVIDING ALL NECESSARY TEMPORARY
SUPPORT TO THE BUILDING AND ANY
ADJACENT STRUCTURES.

REV. NO. DESCRIPTION DATE BY

00 FOR APPROVAL 04/22 A.B

PROJECT:

TITLE:

LAUREL VILLAGE

### MECHANICAL GENERAL DETAILS

PROJ. NO. PROJ. ENGR. SCALE @ 24X36:

NTS

DRAWING NO. REV.

### **ELECTRICAL SPECIFICATIONS**

#### 1.ELECTRICAL GENERAL NOTES

- A. GC SHALL VERIFY ANY THIRD PARTY INSPECTIONS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO BIDDING THIS **PROJECT**
- B. ALL LOW VOLTAGE WIRING TO BE IN CONDUIT UNLESS APPROVED OTHERWISE BY AUTHORITY HAVING JURISDICTION.
- C. ALL EMERGENCY LIGHTS & EXIT SIGNS ARE TO BE CONNECTED TO THE UNSWITCHED PORTION OF THE ADJACENT LIGHTING CIRCUIT. ALL EMERGENCY FIXTURES TO REMAIN ACTIVE FOR 90 MINUTE MINIMUM.
- D. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE LABELED AND LISTED BY A CERTIFIED TESTING LABORATORY OR AGENCY
- E. ALL LIGHTING, DUCTWORK, SOFFITS, AND CEILING COMPONENT HEIGHTS ARE TO BE COORDINATED WITH THE ARCHITECT
- F. ATTENTION LIGHTING SUPPLIER AND CONTRACTOR: ENSURE ALL LIGHTING EXPOSED TO PLENUM IS PLENUM RATED.
- G. COORDINATE THE MOUNTING OF ALL HIGH-BAY FIXTURES AND CEILING FANS WITH ARCHITECT PRIOR TO INSTALLATION.
- H. . VERIFY MOUNTING HEIGHTS OF ALL FIXTURES WITH ARCHITECTURAL **ELEVATIONS PRIOR TO ROUGH-IN.**
- FIRE ALARM CONTRACTOR SHALL VERIFY ALL BUILDING AND FIRE DEPARTMENT REQUIREMENTS REGARDING SHUT OFF OF ANY NECESSARY COMPONENTS UPON ACTIVATION OF THE FIRE ALARM THIS INCLUDES, BUT IS NOT LIMITED TO:
- AUDIO/MUSIC SYSTEM(S)
- **ROOFTOP UNITS**
- c. TANNING EQUIPMENT
- d. EXERCISE FANS
- J. PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR (SIZE PER NEC) IN PVC TYPE CONDUIT, POWER CIRCUITS, ISOLATED GROUND CIRCUITS, OR AS SHOWN ON PLANS. CONDUIT SHALL BE SIZED PER NEC BASED ON THIN 600 VOLT COPPER SINGLE CONDUCTORS, PLUS THE EQUIPMENT GROUNDING CONDUCTOR.
- K. WIRING SHALL INCLUDE FINAL CONNECTION TO ALL EQUIPMENT IN CONFORMANCE WITH EQUIPMENT SUPPLIER WIRING DIAGRAMS.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE PANELBOARD IDENTIFICATION SCHEDULES
- M. BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE IN SCHEDULES. WHERE 20A BRANCH CIRCUITS HAVE #8 AND LARGER WIRE SPECIFIED, #10 AWG WIRE SHALL BE USED FOR THE FINAL CONNECTION (15 FOOT MAXIMUM).
- N. WHERE BRANCH CIRCUITS ARE GROUPED, SIZE CONDUIT AND DERATE CURRENT CARRYING CONDUCTORS PER NEC.
- O. PROVIDE HANDLE TIES ON ALL MULTIWIRE BRANCH CIRCUITS TO MEET NEC REQUIREMENTS.
- P. SUPPORT FROM STRUCTURE: NO ATTACHMENT OF ANY TYPE SHALL BE MADE TO BRIDGING OR JOIST WEB MEMBERS. UTILIZE ONLY THE TOP AND BOTTOM CHORDS FOR SUPPORTING THE ELECTRICAL SYSTEM INSTALLATIONS. REFER TO STRUCTURAL PLANS.
- Q. WHERE GROUPED CONDUITS ARE INSTALLED WITHIN THE JOIST SPACE. COORDINATE WITH SPRINKLER CONTRACTOR PRIOR TO INSTALLATION IN ORDER TO MAINTAIN REQUIRED CLEARANCES FROM SPRINKLERS.
- R. SEAL PENETRATIONS IN FIRE RATED WALLS PER NEC 300.21.
- S. ELECTRICAL EQUIPMENT, FIXTURES, DEVICES, AND OTHER ITEMS SHOWN IN THESE PLANS IN GREY HALFTONE ARE EITHER EXISTING TO REMAIN OR PART OF LANDLORD SHELL PACKAGE
- PROVIDE ARC-FLASH COORDINATION STUDY PER NEC.
- U. PROVIDE (1) 1/2" CONDUIT AND (1) 4" SQUARE BOX WITH SINGLE GANG DEVICE RING FOR ALL THERMOSTAT LOCATIONS INDICATED ON MECHANICAL DRAWINGS. ROUTE CONDUIT FROM BOX TO ACCESSIBLE CEILING CAVITY. PROVIDE PLASTIC BUSHING ON EXPOSED CONDUIT ENDS. PROVIDE PULL STRING IN ALL EMPTY CONDUIT SYSTEMS. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- V. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LOW VOLTAGE CONTRACTOR TO CLARIFY SCOPE OF WORK BEFORE BID OR INSTALLATION
- W. WIRING DEVICES: DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHERWISE ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY:
- a. SWITCHES 42 " AFF
- RECEPTACLES 18" AFF
- c. VOICE/DATA 18" AFF

#### 2. ELECTRICAL POWER NOTES

- A. ALL REQUIRED DOCUMENTATION REGARDING THE DESIGN OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS AND THE PROCEDURES FOR MAINTENANCE, INSPECTION, AND TESTING OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS SHALL BE MAINTAINED AT AN APPROVED, SECURED LOCATION FOR THE LIFE OF THE SYSTEM PER IFC 901.6.2.1
- B. THE FIRE ALARM CONTROL PANEL DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL ONLY BE ACCESSIBLE TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT" THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE IDENTIFIED AT THE FIRE ALARM CONTROL UNIT PER NFPA 72 4.4.1.4.2.2 AND 4.4.1.4.2.3.
- ROUTE ALL CONDUIT TIGHT TO DECK IN ACCORDANCE TO NEC 300.4(E)
- FIRE ALARM SYSTEM SHALL BE INSTALLED PER CURRENT NFPA **STANDARDS**
- ALL ELECTRICAL THAT MAY NEED TO BE MAINTAINED WHILE ENERGIZED SHALL BE FIELD MARKED WITH ARC FLASH LABELING AND BE FULLY VISIBLE TO QUALIFIED PERSONNEL PRIOR TO EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF **EQUIPMENT**
- SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKINGS SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATIONS WERE PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
- G. FIRE ALARM DEVICE LOCATIONS ARE SHOWN FOR REFERENCE ONLY THE ELECTRICAL CONTRACTOR SHALL INCLUDE A PRICE IN THE ELECTRICAL BID FOR A LANDLORD APPROVED FIRE ALARM SYSTEM, INCLUDING PLANS AND ALL ASSOCIATED DOCUMENTATION REQUIRED. THESE PLANS SHALL BE SUBMITTED TO THE LOCAL AUTHORITIES HAVING JURISDICTION BY A QUALIFIED AND LICENSED DESIGN-BUILD FIRE ALARM CONTRACTOR FOR A COMPLETE AND APPROVED FIRE ALARM SYSTEM. THE PLANS SHALL BE SIGNED AND SEALED BY THEIR LOCAL DESIGN ENGINEER AND SUBMITTED FOR PLAN REVIEW PRIOR TO RECEIVING SPECIFIC PERMITS FOR THIS WORK. THE FIRE ALARM CONTRACTOR SHALL ALSO SUBMIT ALL SHOP DRAWINGS, BATTERY CALCULATIONS, SPECIFICATION SHEETS, ETC. AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION TO THEIR LOCAL DESIGN ENGINEER FOR REVIEW AND APPROVAL.
- H. COORDINATE WITH MECHANICAL INSTALLER TO PROVIDE AND INSTALL CONDUIT AND JUNCTION BOXES FOR MECHANICAL THERMOSTATS.

#### 3. NETWORK CABLING REQUIREMENTS

- A. EACH CAT 5 CABLE RUN MUST BE KEPT TO A MAXIMUM OF 295 FEET (90 METERS). INCLUDING PATCH CORDS, ENTIRE CHANNEL MAXIMUM LENGTH NOT TO EXCEED 328 FEET (100 METERS).
- B. MAINTAIN PAIR TWISTING AS CLOSE AS POSSIBLE TO FINAL TERMINATION POINTS WITH MAXIMUM UNTWISTED SEGMENT OF 1/2".
- C. WHERE NECESSARY, GRADUALLY BEND CABLE TO MAINTAIN THE MINIMUM BEND RADIUS OF 4 TIMES THE CABLE DIAMETER (APPROX.
- D. USE LOW TO MODERATE PRESSURE TO DRESS CABLES NEATLY WITH CABLE TIES.
- USE LOW TO MODERATE FORCE WHEN PULLING CABLE. DO NOT EXCEED MAXIMUM OF 25 POUNDS OF FORCE.
- USE CABLE PULLING LUBRICANT FOR CABLE RUNS THAT MAY EXCEED 25 POUNDS OF FORCE WHEN PULLING.
- MAINTAIN 12" OF SEPARATION FROM POWER CABLES THAT MAY BE SOURCES OF EMI (ELECTRICAL CABLES, TRANSFORMERS, LIGHT FIXTURES, ETC.)
- H. INSTALL PROPER CABLE SUPPORTS WITH MAXIMUM OF 5 FEET OF SEPARATION.
- LEAVE EXCESS WIRE COILED IN THE CEILING OR NEAREST CONCEALED SPACE. MAINTAIN 5 FEET OF SLACK AT WORK OUTLET AND 10 FEET OF SLACK AT PATCH PANEL END.
- FURNISH AND INSTALL GROMMETS WHEN PASSING THROUGH METAL STUDS AND OTHER POTENTIAL HAZARDS.
- K. CONTRACTOR IS RESPONSIBLE FOR MEETING BOTH NATIONAL FIRE AND BUILDING CODES AND ANY LOCAL AMENDMENTS BY THE AUTHORITIES HAVING JURISDICTION AND MAINTAIN FIRESTOPS AT ALL CABLES THAT PENETRATE FIREWALLS. PLENUM RATED CABLES SHALL BE INSTALLED WHERE REQUIRED.
- DO NOT SPLICE OR BRIDGE CABLE AT ANY POINT.
- M. DO NOT INSTALL CABLE SUPPORTED FROM CEILING TILES.
- N. DO NOT OVER TIGHTEN (25 POUNDS PER SQUARE INCH MAXIMUM) WITH USING CABLE OR PLASTIC TIES.
- O. DO NOT USE OIL OR OTHER LUBRICANT NOT SPECIFICALLY
- DESIGNED FOR NETWORK CABLE PULLING.
- DO NOT SUPPORT CABLES DIRECTLY FROM ELECTRICAL CONDUITS **OR FIXTURES**

#### 4. GENERAL FIRE ALARM NOTES

- A. THE INTENT OF THE FIRE ALARM SYSTEM DEVICES INDICATED ON THIS DRAWING ARE FOR PERFORMANCE SPECIFICATIONS AND LOCATIONS ONLY. THE SUCCESSFUL FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE COMPLETE PERMIT DRAWINGS. INCLUDING WIRING MEANS AND METHODS, BATTERY CALCULATIONS, DEVICE CUT SHEETS, ETC. FOR THE EQUIPMENT THEY SHALL PROVIDE. PROVIDE 15% SPARE CAPACITY FOR NEW SYSTEMS. COORDINATE FINAL REQUIREMENTS WITH ALL AUTHORITIES HAVING JURISDICTION.
- B. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY A UL LISTED CENTRAL STATION.
- C. FIRE ALARM CONTRACTOR SHALL SUBMIT FIRE ALARM SUBMITTALS TO THE OWNER'S REPRESENTATIVE WITHIN 30 DAYS AFTER CONTRACT IS AWARDED.
- D. WALL MOUNTED DEVICES SHALL BE 80" AFF TO BOTTOM OF DEVICE UNLESS NOTED OTHERWISE.
- E. SURFACE MOUNTING OF FIRE ALARM CONDUIT IS NOT PERMITTED IN FINISHED AREAS.
- BUILDING IS EQUIPPED WITH A FULLY AUTOMATIC SPRINKLER
- REMOVE ALL EXISTING FIRE ALARM SYSTEMS FROM PREVIOUS TENANTS PRIOR TO INSTALLING NEW EQUIPMENT.
- ALL REQUIRED DOCUMENTATION REGARDING THE DESIGN OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS AND THE PROCEDURES FOR MAINTENANCE, INSPECTION, AND TESTING OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS SHALL BE MAINTAINED AT AN APPROVED, SECURED LOCATION FOR THE LIFE OF THE SYSTEM PER IFC 901.6.2.1
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- ROUTE ALL CONDUIT TIGHT TO DECK IN ACCORDANCE WITH NEC 300.4(E).
- K. FIRE ALARM SYSTEMS SHALL BE INSTALLED PER CURRENT NFPA STANDARDS.FIRE ALARM DEVICE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. THE ELECTRICAL CONTRACTOR SHALL INCLUDE A PRICE IN THE ELECTRICAL BID FOR A LANDLORD APPROVED FIRE ALARM SYSTEM, INCLUDING PLANS AND ALL ASSOCIATED DOCUMENTATION REQUIRED. THESE PLANS SHALL BE SUBMITTED TO THE LOCAL AUTHORITIES HAVING JURISDICTION BY A QUALIFIED AND LICENSED DESIGN-BUILD FIRE ALARM CONTRACTOR FOR A COMPLETE AND APPROVED FIRE ALARM SYSTEM. THE PLANS SHALL BE SIGNED AND SEALED BY THEIR LOCAL DESIGN ENGINEER AND SUBMITTED FOR PLAN REVIEW PRIOR TO RECEIVING SPECIFIC PERMITS FOR THIS WORK. THE FIRE ALARM CONTRACTOR SHALL ALSO SUBMIT ALL SHOP DRAWINGS, BATTERY CALCULATIONS, SPECIFICATION SHEETS, ETC. AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION TO THEIR LOCAL DESIGN ENGINEER FOR REVIEW AND APPROVAL

### **5.ELECTRICAL ABBREVIATIONS:**

AFF ABOVE FINISHED FLOOR

ABC ABOVE COUNTER

CF CEILING FAN

CP CIRCULATING PUMP EC ELECTRICAL CONTRACTOR ECB ENCLOSED CIRCUIT BREAKER EDF ELECTRIC DRINKING FOUNTAIN EF EXHAUST FAN GC GENERAL CONTRACTOR GFCI GROUND FAULT CIRCUIT INTERRUPT GR GROUND HC HVAC CONTRACTOR JB JUNCTION BOX PC PLUMBING CONTRACTOR TTB TELEPHONE TERMINATION BOARD UC UNDERCOUNTER UH UNIT HEATER UNO UNLESS NOTED OTHERWISE VIF VERIFY IN FIELD WH WATER HEATER WP WEATHER PROOF DEVICE WR WEATHER RESISTANT DEVICE GFCI GROUND FAULT CIRCUIT INTERRUPTER

### **ELECTRICAL LEGEND**

# NEW 4'-0" L SURFACE MOUNTED LINKABLE LED STRIP LIGHT FIXTURE NEW MEDIUM SPOT LED TRACK HEAD LIGHTING FIXTURE 120V AC, 14W, ELV DIMMABLE, 40 DEGREE BEAM SPREAD MODEL: LUMENTURE T50-30H-1100-22-W-J CLIENT: EXISTING RECESSED LED DOWNLIGHT

LITHONIA LDN6 35/15 (3500 K/1500 LUMENS) GZ10 STANDARD DRIVER DIMS TO 10% FRANCISCO, CA 94118 APERTURE - L06 DOWNLIGHT / TRIM - AR CLEAR

**CHANDLIER OUTLET** 

EXISTING CEILING / WALL MOUNTED ILLUMINATED EXIT SIGN ON 90 MIN ILLUMINATED EXIT SIGN W/EMERGENCY BUGEYE LIGHT FIXTURE ON 90 MIN

**NEW 6" RECESSED LED DIMMABL** 

**EXISTING WALL SCONCE FIXTURE** 

DOWNLIGHT FIXTURE 120V

BUGEYE LIGHT FIXTURE ON 90 MIN

FIXTURE W/ 90 MIN BATTERY NEW CEILING/WALL MOUNTED ILLUMINATED EXIT SIGN - CBC/CFC SEC.1011 ON 90 MIN

HEAVY DUTY JUNCTION BOX, FLUSH IN CEILING FOR EXHAUST FANS

> ONE WAY LIGHTING SWITCH ONE WAY LIGHTING SWITCH WITH OCCUPANCY SENSOR

ONE WAY LIGHTING SWITCH WITH DIMMER ONE WAY LIGHTING SWITCH WITH TIMER

TWO WAYS LIGHTING SWITCH

TWO WAYS LIGHTING SWITCH WITH OCCUPANCY SENSOR TWO WAYS LIGHTING SWITCH WITH DMMER

TWO WAYS LIGHTING SWITCH WITH TIMER

SELF CONTAINED SMOKE/CARBON MONOXIDE (120 W/BATTERY

DUPLEX RECEPTACLE - WALL MOUNTED @ +18" AFF UNLESS NOTED GFCI DENOTES: GROUD FAULT PROTECTION

NON-FUSED DISCONNECT SWITCH - SIZE AS INDICATED

(			
XXTURE TAG	DESCIRPTION	WATTAGE	QUANTITY
> L1	SURFACE MOUNTED 3" DEEP LOW PROFILE WRAPAROUND 10"X48" LED LIGHT FIXTURE MODEL LITHONIA FML4W 48 5000LM 840 ZT MVOLT	: 53.4	14
L2	4'-0" L SURFACE MOUNTED LINKABLE LED STRIP LIGHT FIXTURE LITHONIA MODEL: RLNK L48 120 35K 80CRI M4	20	8
<b>L</b> 3	SAME AS EXISTING	15W/ft	15
L4	CONTECH TRACKS LT-P MEDIUM SPOT LED TRACK HEAD LIGHTING FIXTURE ELV DIMMABLE, MODEL: LUMENTURE T50-30H-1100-22-W-J	14	2
L5	SAME AS EXISTING	20	31
> L6	6" RECESSED LED DIMMABLE DOWNLIGHT FIXTURE 120VLITHONIA LDN6 (3500 K/1500 LUMENS) LDN6 35/15 LO6AR,	18	5
<b>L</b> 7	EXISTING WALL SCONCE FIXTURE	20	3
L8	CHANDELIER	46	1

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DATE BY DESCRIPTION REV. NO. FOR APPROVAL 02/23 A.B

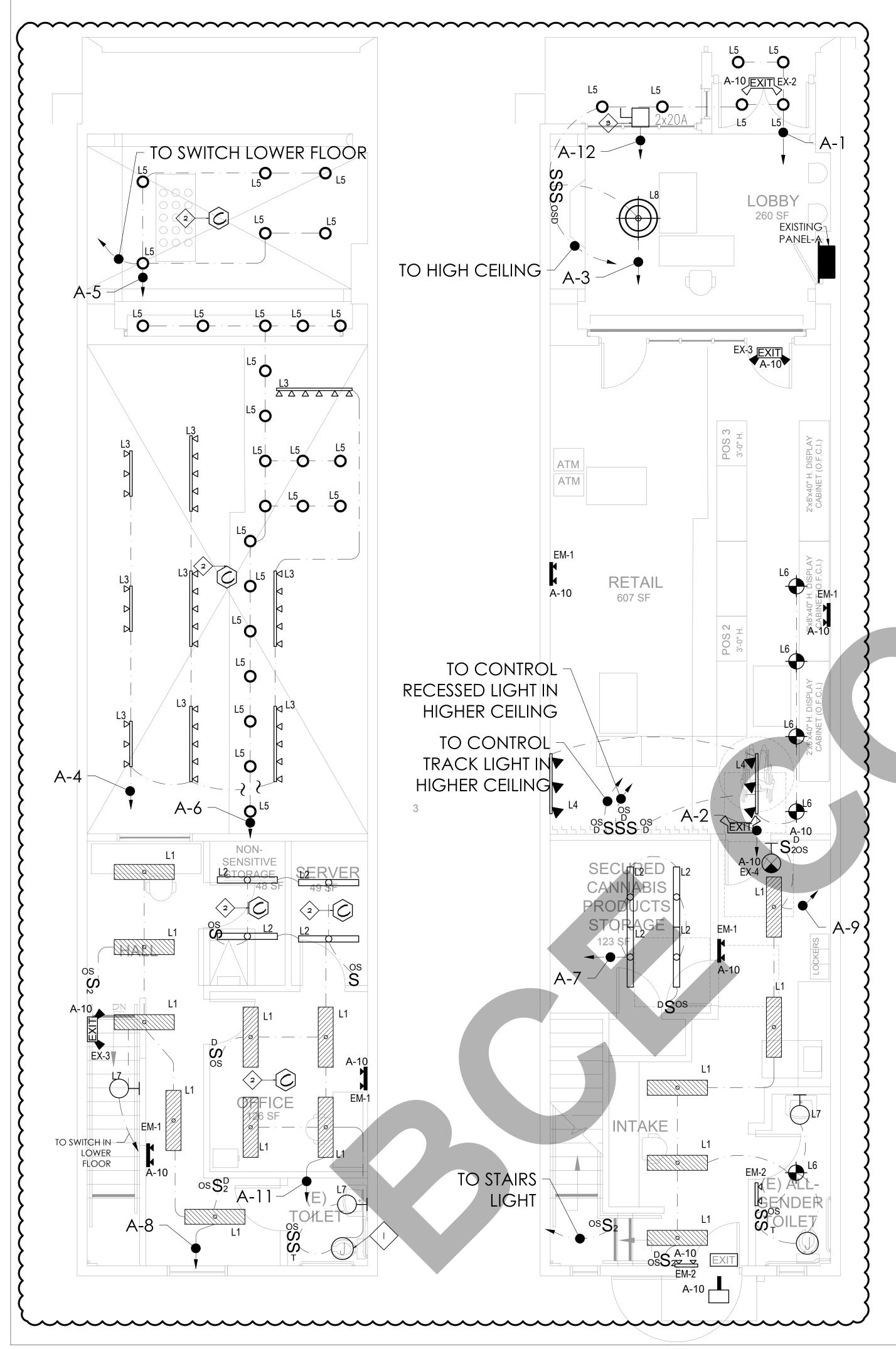
PROJECT: LAUREL VILLAGE ELECTRICAL SYMBOLS

04/22 A.B

FOR APPROVAL

AND GENERAL NOTES SCALE @ 24X36: PROJ. NO. PROJ. ENGR. NTS DRAWING NO.

E.01



#### SHEET NOTES:

- $\langle \hat{} \rangle$ —PROVIDE HEAVY DUTY JUNCTION BOX, FLUSH IN CEILING FOR EXHAUST FANS
- FURNISH AND INSTALL SMOKE OR COMBINATION SMOKE AND CARBON
- MONOXIDE DETECTOR AS REQUIRED. INTERLOCK WITH OTHER DETECTORS

  PROVIDE DISCONNECT SWITCH AS SIZE INDICATED FOR SIGNAGE LIGHTING

#### GENERAL FIRE ALARM NOTES

- A. THE INTENT OF THE FIRE ALARM SYSTEM DEVICES INDICATED ON THIS DRAWING ARE FOR PERFORMANCE SPECIFICATIONS AND LOCATIONS ONLY. THE SUCCESSFUL FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE COMPLETE PERMIT DRAWINGS, INCLUDING WIRING MEANS AND METHODS, BATTERY CALCULATIONS, DEVICE CUT SHEETS, ETC. FOR THE EQUIPMENT THEY SHALL PROVIDE. PROVIDE 15% SPARE CAPACITY FOR NEW SYSTEMS. COORDINATE FINAL REQUIREMENTS WITH ALL AUTHORITIES HAVING JURISDICTION.
- B. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY A UL LISTED CENTRAL STATION.
- C. FIRE ALARM CONTRACTOR SHALL SUBMIT FIRE ALARM SUBMITTALS TO THE OWNER'S REPRESENTATIVE WITHIN 30 DAYS AFTER CONTRACT IS AWARDED.
- D. WALL MOUNTED DEVICES SHALL BE 80" AFF TO BOTTOM OF DEVICE UNLESS NOTED OTHERWISE.
- E. SURFACE MOUNTING OF FIRE ALARM CONDUIT IS NOT PERMITTED IN FINISHED AREAS.
- F. BUILDING IS EQUIPPED WITH A FULLY AUTOMATIC SPRINKLER SYSTEM.
- G. REMOVE ALL EXISTING FIRE ALARM SYSTEMS FROM PREVIOUS TENANTS PRIOR TO INSTALLING NEW EQUIPMENT.
- H. ALL REQUIRED DOCUMENTATION REGARDING THE DESIGN OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS AND THE PROCEDURES FOR MAINTENANCE, INSPECTION, AND TESTING OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS SHALL BE MAINTAINED AT AN APPROVED, SECURED LOCATION FOR THE LIFE OF THE SYSTEM PER IFC 901.6.2.1.
- I. THE FIRE ALARM CONTROL PANEL DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL ONLY BE ACCESSIBLE TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT". THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE IDENTIFIED AT THE FIRE ALARM CONTROL UNIT PER NFPA 72 4.4.1.4.2.2 AND 4.4.1.4.2.3.
- J. ROUTE ALL CONDUIT TIGHT TO DECK IN ACCORDANCE WITH NEC 300.4(E).

  K. FIRE ALARM SYSTEMS SHALL BE INSTALLED PER CURRENT NFPA
- FIRE ALARM SYSTEMS SHALL BE INSTALLED PER CURRENT NFPA STANDARDS.FIRE ALARM DEVICE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. THE ELECTRICAL CONTRACTOR SHALL INCLUDE A PRICE IN THE ELECTRICAL BID FOR A LANDLORD APPROVED FIRE ALARM SYSTEM, INCLUDING PLANS AND ALL ASSOCIATED DOCUMENTATION REQUIRED. THESE PLANS SHALL BE SUBMITTED TO THE LOCAL AUTHORITIES HAVING JURISDICTION BY A QUALIFIED AND LICENSED DESIGN-BUILD FIRE ALARM CONTRACTOR FOR A COMPLETE AND APPROVED FIRE ALARM SYSTEM. THE PLANS SHALL BE SIGNED AND SEALED BY THEIR LOCAL DESIGN ENGINEER AND SUBMITTED FOR PLAN REVIEW PRIOR TO RECEIVING SPECIFIC PERMITS FOR THIS WORK. THE FIRE ALARM CONTRACTOR SHALL ALSO SUBMIT ALL SHOP DRAWINGS, BATTERY CALCULATIONS, SPECIFICATION SHEETS, ETC. AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION TO THEIR LOCAL DESIGN ENGINEER FOR REVIEW AND APPROVAL.

#### LIGHTING GENERAL NOTES

- I. ALL JUNCTION BOXES, CONDUITS, AND AIRES SHALL BE SIZED PER NEC.
- 2. CONNECT ALL EXIT LIGHTS AHEAD OF ANY LOCAL OR AUTOMATIC SWITCHING DEVICE.
- 3. PROVIDE A CONSTANT HOT FROM PANEL BOARD DIRECTLY TO ALL EMERGENCY BATTERY PACKS/BALLASTS IN EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS. EMERGENCY LIGHTING FIXTURES SHALL TURN ON TO FULL BRIGHTNESS IN CASE OF POWER LOSS.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION & MOONING HEIGHTS OF ALL LIGHTING FIXTURES SHOWN ON THIS DRAWING.
- REFER TO DETAIL SHEET FOR SYMBOLS, SPECIFICATIONS, ABBREVIATIONS, AND LIGHTING FIXTURE SCHEDULE.
- 6. ALL DEVICES AND EQUIPMENT OUTSIDE THE SCOPE OF WORK ARE EXISTING TO REMAIN U.O.N.
- 7. CONTRACTOR SHALL PROVIDE AN ACCURATELY TYPED PANEL BOARD SCHEDULE FOR EACH PANEL BOARD.
- 8. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
- ALL EXTERIOR LUMINARIES AND ELECTRICAL DEVICES SHALL BE USED AS WEATHERPROOF TYPE.
- 10. ALL NEW CEILING OCCUPANCY SENSORS SHALL BE DUAL-TECHNOLOGY WITH 1000 SQFT COVERAGE AT 360 DEGREES U.O.N. ON THE DRAWING. COORDINATE EXACT LOCATION AND REQUIREMENTS OF ALL OCCUPANCY SENSORS SHOWN ON THIS DRAWING WITH MANUFACTURER REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR TO PROVIDE POWER PACKS AS REQUIRED.
- 11. CONTRACTOR SHALL CONFIRM COMPATIBILITY OF ALL LIGHTING CONTROL DEVICES/SWITCHES/DIMMERS WITH LIGHTING FIXTURES AND BALLASTS/DRIVERS PRIOR TO SUBMITTAL.
- 12. FIXTURE MARKED WITH SUBSCRIPT "(E)" IS EXISTING TO REMAIN, CONTRACTOR TO MAINTAIN CONTINUITY OF BRANCH CIRCUITS.
- 13. ALL CONDUIT RUNS IN OPEN PLENUM SPACE SHALL BE INSTALLED IN A NEAT MANNER PERPENDICULAR OR PARALLEL TO WALLS AND PAINTED AS DIRECTED BY OWNER.

#### LIGHTING KEY NOTES

- 1. PROVIDE WEATHERPROOF JUNCTION BOX WITH 20A 120V BRANCH CIRCUIT TO POWER EXTERIOR SIGNAGE.CONTRACTOR TO PROVIDE 1P-20A RATED TOGGLE SWITCH WITHIN SIGHT IN AN ACCESSIBLE AREA AS A DISCONNECT MEAN AND TO COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER/SIGN VENDOR PRIOR TO ROUGH-IN. EXTERIOR SIGNAGE SHALL BE CONTROLLED VIA WIRELESS SWITCH PACK OR AS DIRECTED BY OWNER.
- 2. LIGHTING FIXTURES SERVING RESTROOMS SHALL BE 120V RATED. CONNECTED TO THE SAME BRANCH CIRCUIT SERVING EXHAUST FAN, AND CONTROLLED AS SHOWN ON DETAIL SHEET.
- 3. INTERIOR AND EXTERIOR LIGHTING BRANCH CIRCUITS SERVING THE SPACE SHALL BE CONTROLLED VIA WIRELESS RELAY SWITCH PACKS, COORDINATE WITH OWNER/LIGHTING SYSTEM VENDOR FOR EXACT LOCATIONS/NUMBER OF HUBS/DEVICES, SCHEDULE, WIRELESS DIMMER SWITCHES FOR TRACK LIGHT LOCATIONS AND ALL OTHER SYSTEM REQUIREMENTS PRIOR TO BID AND COMMENCEMENT OF WORK. EXTERIOR LIGHTING FIXTURES SWITCH PACKS AND CONTROL SWITCHES SHALL BE MOUNTED NEXT TO THE PANEL WHERE BRANCH CIRCUIT IS ORIGINATED OR AS DIRECTED BY OWNER/ARCHITECT.
- 4. NEW EMERGENCY AND EXIT LIGHTING SHALL BE CONNECTED AHEAD OF LOCAL SWITCHING.
- 5. PROVIDE IN-LINE CURRENT LIMITER AS SHOWN FOR TRACK LIGHTING.

## CLIENT:

#### ADDRESS:

3415 CALIFORNIA ST. SAN FRANCISCO, CA 94118

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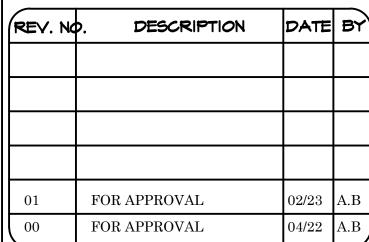
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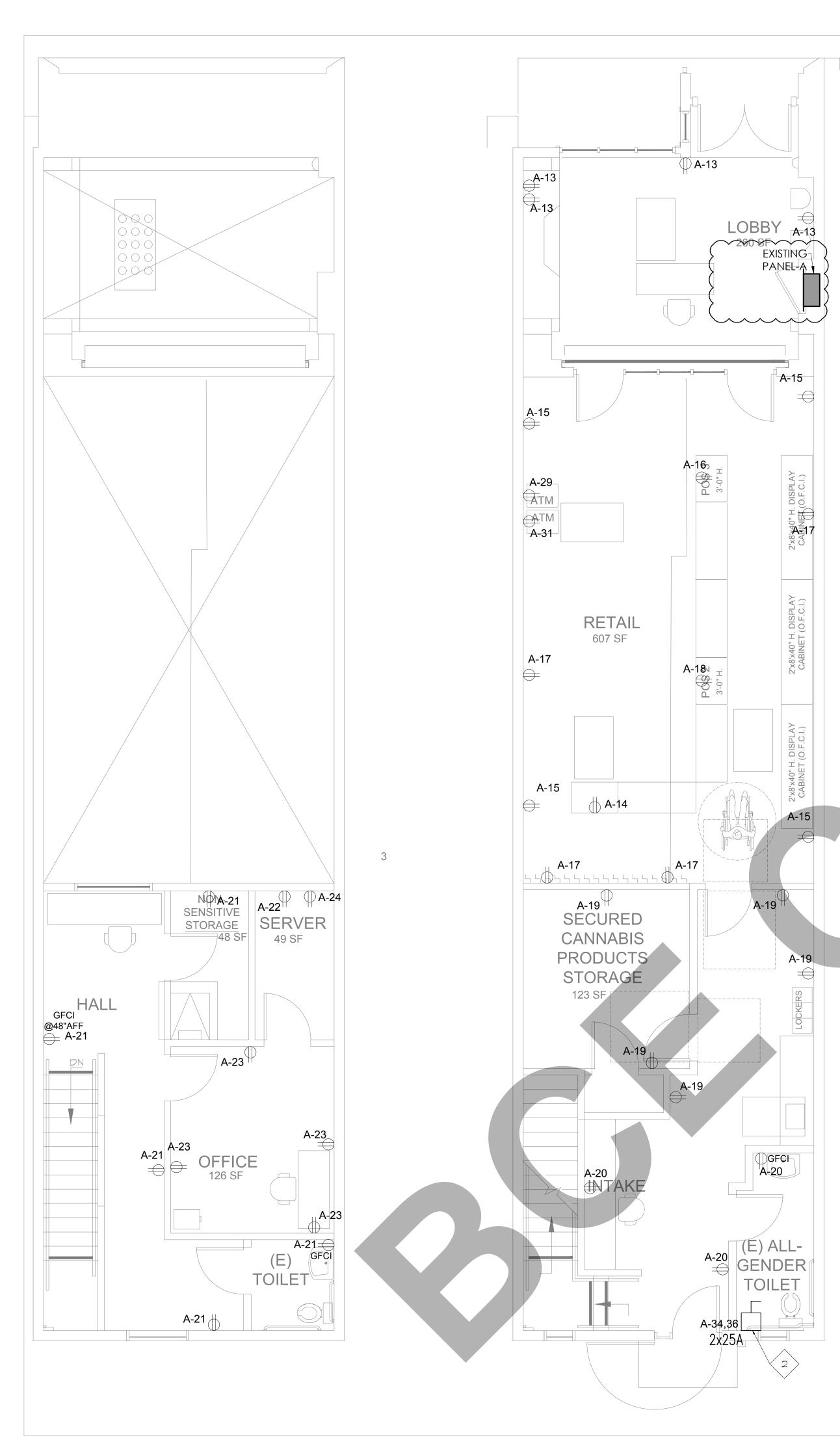
PROJECT:

LAUREL VILLAGE

TITLE: LIGHTING PLAN

PROJ. NO. PROJ. ENGR. SCALE @ 24X36:
1/4°=1'

DRAWING NO. REV.



#### **SHEET NOTES:**

- -PROVIDE HEAVY DUTY JUNCTION BOX, FLUSH IN CEILING FOR EXHAUST FANS
- 2 PROVIDE FUSED DISCONNECT SWITCH FOR RTU
- PROVIDE FUSED DISCONNECT SWITCH FOR ELECTRIC WATER HEATER

#### POWER KEY NOTES

- PROVIDE (2) 2" EMPTY CONDUITS WITH PULL STRINGS FROM EXISTING TELEPHONE UTILITY SERVICE CABINET/BOARD TO NEW TELEPHONE BOARD LOCATION AS SHOWN. COORDINATE EXACT LOCATION WITH TENANT/ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
- ABOVE FRONT WINDOW RECEPTACLE. CONTRACTOR TO COORDINATE EXACT LOCATION AND OTHER REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION
- CONTRACTOR TO PROVIDE WIREMOLD CONCRETE WEATHERPROOF FLUSH FLOOR BOX RFB4 SERIES OR APPROVED EQUAL WITH (1) DUPLEX RECEPTACLES AND TELE/DATA CONNECTIVITY. COORDINATE WITH ARCHITECT/ OWNER/IT CONSULTANT FOR EXACT TYPE OF DEVICE AND OTHER REQUIREMENTS PRIOR TO PURCHASE AND INSTALLATION.
- PROVIDE (1) 3/4" CONDUIT FOR POWER WIRING AND (2) 1-1/4" FOR LOW VOLTAGE CABLING WITH RING AND STRING FROM FLOOR BOX TO CLOSEST WALL AS SHOWN. COORDINATE EXACT LOCATION AND TERMINATION OF CONDUIT WITH ARCHITECT/IT CONSULTANT PRIOR TO COMMENCEMENT OF WORK.
- JUNCTION BOX WITH 120v. BRANCH CIRCUIT FOR SECURITY PANEL/DOOR STRIKE AND ACCESS CONTROL, PROVIDE A JUNCTION BOX ABOVE CEIUNG IN AN ACCESSIBLE AREA, COORDINATE EXACT LOCATION, TERMINATION POINTS AND ALL REQUIREMENTS WITH OWNER/ARCHITECT/SECURITY ALARM VENDOR PRIOR TO INSTALLATION. CONNECT TO CIRCUIT B-27. MAKE FINAL CONNECTIONS AS REQUIRED. (TYPICAL)
- CONTRACTOR TO PROVIDE 120V. 20A BRANCH CIRCUIT AND 2 PHONE LINES TO POWER FIRE ALARM CONTROL PANEL FROM NEW PANEL "B", COORDINATE EXACT LOCATION AND OTHER REQUIREMENTS WITH OWNER/FIRE ALARM CONTRACTOR PRIOR TO INSTALLATION.
- CONTRACTOR TO PROVIDE A DUPLEX RECEPTACLE AND L5-20R RECEPTACLE FOR IT EQUIPMENT POWER, COORDINATE EXACT LOCATION, ELECTRICAL CHARACTERISTICS OF EQUIPMENT, BREAKER/WIRING AND RECEPTACLE NEMA CONFIGURATION WITH OWNER PRIOR TO INSTALLATION.
- CONTRACTOR TO PROVIDE 120V. 20A BRANCH CIRCUIT AND TELE/DATA OUTLET FOR ATM MACHINE. COORDINATE EXACT LOCATION, ELECTRICAL CHARACTERISTICS OF EQUIPMENT. BREAKER/WIRING AND RECEPTACLE NEMA CONFIGURATION WITH OWNER/VENDOR PRIOR TO INSTALLATION.
- PROVIDE POWER AND TV/DATA OUTLET FOR TV/MENU SCREEN, COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH ARCHITECT/TECHNOLOGY DRAWINGS PRIOR TO INSTALLATION. TV OUTLET AND RECEPTACLE TO BE MOUNTED AT 60" A.F.F.
- 10. CONTRACTOR TO PROVIDE 120V. 20A RECEPTACLE IN AN ACCESSIBLE LOCATION FOR DISHWASHER POWER, PROVIDE 1P-20A TOGGLE SWITCH ABOVE COUNTER FOR CONTROL COORDINATE SWITCH EXACT LOCATION AND OTHER REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
- 11. CONTRACTOR TO PROVIDE JUNCTION BOX WITH 120V. BRANCH CIRCUIT FOR THREAT DETECTION SYSTEM, COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH OWNER/VENDOR PRIOR TO INSTALLATION, PROVIDE TRANSFORMER AS NEEDED. 12.CONTRACTOR TO PROVIDE DISCONNECT SWITCH FOR RECEIVING AREA OVERHEAD DOOR, COORDINATE EXACT LOCATION, CONTROL, ELECTRICAL CHARACTERISTICS AND OTHER REQUIREMENTS WITH OWNER/VENDOR PRIOR TO INSTALLATION. 13.PROVIDE DEDICATED BRANCH CIRCUIT FOR PRINTER. EXACT LOCATION, NEMA CONFIGURATION OF RECEPTACLE, WIRING AND BREAKER CHARACTERISTICS FOR EQUIPMENT TO BE VERIFIED WITH OWNER/ MANUFACTURER PRIOR TO ROUGH IN. 14. CONTRACTOR TO PROVIDE (2) 3" EMPTY CONDUITS WITH PULL STRING FROM IT ROOM HA A , (1) 3/4 E C D I I H I G F SECURITY ROOM TO HALLWAY, (1) 3" EMPTY CONDUIT WITH PULL STRING FROM IT ROOM TO SECURITY ROOM, AND (1) 3/4" EMPTY CONDUIT WITH PULL STRING FROM VAULT TO HALLWAY, COORDINATE TERMINATION POINTS AND OTHER REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION. 15.CONTRACTOR TO COORDINATE EXACT LOCATION. MOUNTING HEIGHT AND OTHER REQUIREMENTS OF ELECTRICAL OUTLETS/DEVICES IN VAULT WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
- 16. JUNCTION BOX FOR CONNECTION TO ELECTRIC HAND DRYER. COORDINATE CONNECTION REQUIREMENTS PRIOR TO INSTALLATION.

#### POWER GENERAL NOTES

- PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
- ALL JUNCTION BOXES, CONDUITS, AND WIRES SHALL BE SIZED
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- ALL HOME RUNS SHALL BE 2#12+1#12 GND IN 3 4" CONDUIT U.O.N. CIRCUIT NUMBERS INDICATED ARE FOR DESIGN PURPOSES ONLY CONTRACTOR SHALL COORDINATE ACTUAL CIRCUIT NUMBERS AT THE TIME OF INSTALLATION AND TO PROVIDE AN ACCURATELY TYPED PANEL BOARD SCHEDULE FOR EACH PANEL BOARD
- ALL DEVICES AND EQUIPMENT OUTSIDE THE SCOPE OF WORK ARE **EXISTING TO REMAIN U.O.N.**
- CONTRACTOR SHALL PROVIDE AN ACCURATELY TYPED PANEL BOARD SCHEDULE FOR EACH PANEL BOARD.
- 8. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
- 9. CONTRACTOR SHALL REFER TO MECHANICAL/PLUMBING DRAWINGS FOR EXACT LOCATION OF EQUIPMENT AND SCHEDULES. CONTRACTOR SHALL PROVIDE ALL ELECTRICAL DISCONNECTS. BRANCH CIRCUITRY, CIRCUIT BREAKERS AND CONNECTIONS REQUIRED TO POWER EQUIPMENT
- 10. CONTRACTOR TO COORDINATE EXACT LOCATION OF DISCONNECT SWITCHES, JUNCTION BOXES AND SINGLE POLE TOGGLE SWITCHES WITH MECHANICAL/PLUMBING CONTRACTORS PRIOR TO INSTALLATION.
- 11. ALL CONDUIT RUNS IN OPEN PLENUM SPACE SHALL BE INSTALLED IN A NEAT MANNER PERPENDICULAR OR PARALLEL TO WALLS AND PAINTED AS DIRECTED BY OWNER.

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ADDRESS:

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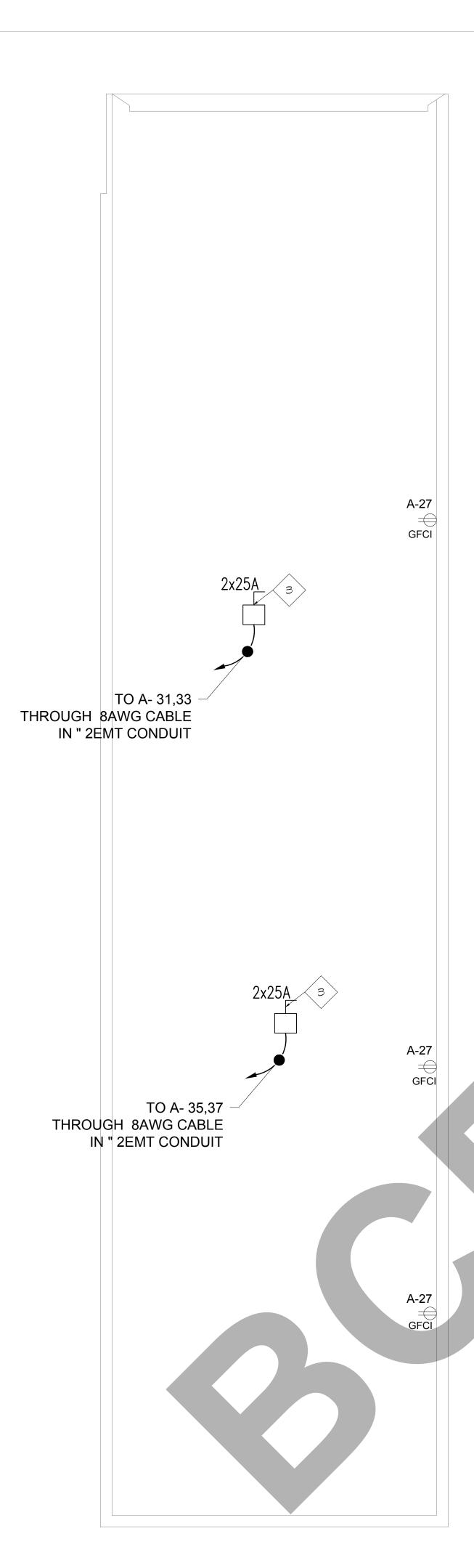
REV. NO	DESCRIPTION	DATE	BY
01	FOR APPROVAL	02/23	A.B
00	FOR APPROVAL	04/22	A.B

LAUREL VILLAGE

### TITLE: POWER PLAN

SCALE @ 24X36 PROJ. NO. PROJ. ENGR. 1/4"=1' DRAWING NO.

E . 0 3



#### **SHEET NOTES:**

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#### **POWER GENERAL NOTES**

- 1. PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
- 2. ALL JUNCTION BOXES, CONDUITS, AND WIRES SHALL BE SIZED PER NEC.
- 3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES SHOWN ON THE DRAWING. COORDINATE WITH OWNER FOR EXACT LOCATION AND OTHER REQUIREMENTS PRIOR TO ROUGH-IN.
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   CIRCUIT NUMBERS INDICATED ARE FOR DESIGN PURPOSES ONLY.
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REV. NO	D. DESCRIPTION	DATE	BY
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01	FOR APPROVAL	02/23	A.B
00	FOR APPROVAL	04/22	A.B

/ PROJECT

LAUREL VILLAGE

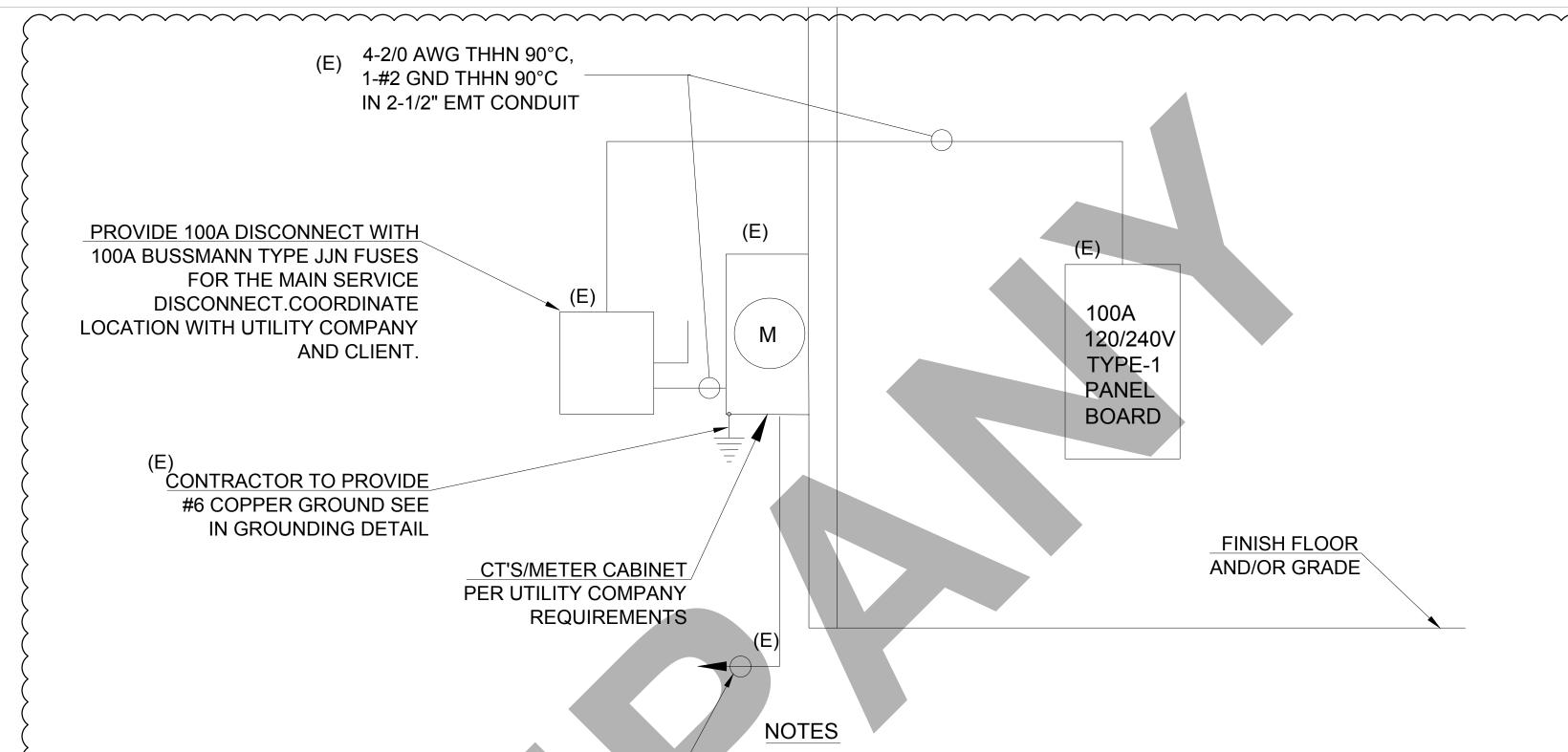
# POWER PLAN ROOF FLOOR

PROJ. NO.	PROJ. ENGR.	30 <i>1</i>	1/4"=1'
DRAWING	NO.		REV.

E.04

### **GENERAL NOTES**

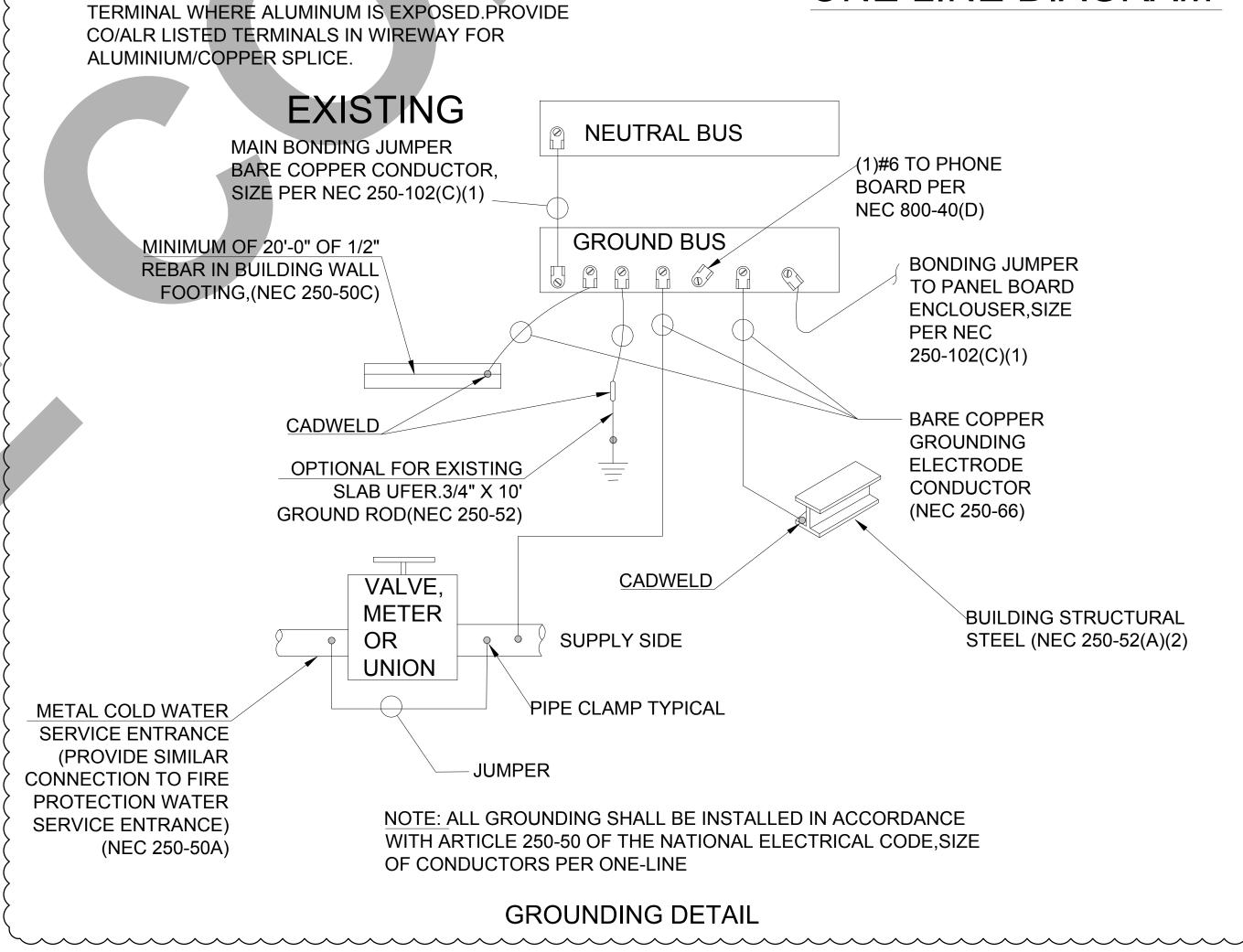
- A. ALL EXISTING COMPONENTS OF THIS ELECTRICAL DIAGRAM ARE TO REMAIN AS INSTALLED AND ARE SHOWN FOR REFERENCE ONLY.
- B. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL FIRE PROTECTION
- C. ASSOCIATION (NFPA) 70, NATIONAL ELECTRICAL CODE. ALL ITEMS ARE ON AN OR EQUAL BASIS.
- D. ALL SINGLE PHASE BRANCH CIRCUITS (RECEPTACLES, LIGHTING, ETC.; ARE 1/2" CONDUIT OR EMT WITH THIN, 90C WIRING, UNLESS NOTED OTHERWISE. ALL OTHER CONDUIT AND WIRING SHALL BE AS INDICATED ON THE PLANS. ACTUAL ROUTING AND HOME RUN GROUPINGS ARE TO BE DETERMINED IN THE FIELD.
- E. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC EXCEPT FOR DETAILS AND ELEVATIONS. DO NOT SCALE FROM DIAGRAMMATIC DRAWINGS. EXACT LOCATIONS OF DEVICES AND PANELS ARE TO BE DETERMINED AND ROUGHED-IN DURING CONSTRUCTION TO AVOID INTERFERENCE, TO MEET USER REQUIREMENTS, TO PROVIDE ADEQUATE MOUNTING, AND TO MEET NEC LINEAR ACCESS AND CLEARANCE REQUIREMENTS.
- F. BACK TO BACK MOUNTING OF RECEPTACLES IS NOT PERMITTED.
- G. IN ADDITION TO THE NEC REQUIREMENTS FOR GFCI PROTECTION FOR RECEPTACLES, THE FOLLOWING RECEPTACLES SHALL ALSO HAVE GFCI PROTECTION: (1)-ALL RECEPTACLES LOCATED WITHIN 8 FEET OF A SINK, (2)-ALL RECEPTACLES WHICH ARE PROVIDED FOR CONVENIENCE IN SERVICING HVAC EQUIPMENT REGARDLESS OF LOCATION.AS REQUIRED TO ACCOMMODATE CONDUCTOR PULLING EASE, FIELD LIFE SAFETY.
- H. PROVIDE A LAMICOID NAMEPLATE (WHITE LETTERS ON BLACK BACKGROUND; ON EACH PANELBOARD, MOTOR STARTER, CONTACTOR, TRANSFORMER, ETC. LETTERS SHALL BE 0.75 INCH MAINIMUM.
- I. CONTRACTOR SHALL CUT AS REQUIRED TO INSTALL ELECTRICAL EQUIPMENT REPAIR OF FLOOR OR WALLS SHALL BE COORDINATED WITH GENERAL CONTRACTOR CONTRACTOR SHALL ALSO REPAIR ALL OPENINGS LEFT DUE TO EQUIPMENT REMOVAL.
- J. CONDUCTORS ARE COPPER UNLESS OTHERWISE SHOWN. ALL CONDUCTORS LARGER THAN #10 SHALL BE STRANDED.
- K. PANELBOARDS SHALL CONTAIN A TYPEWRITTEN DIRECTORY WITH A PLASTIC COVER AFFIXED TO THE INSIDE DOOR.
- L. ALL FIXTURES, DEVICES, CONDUIT, AND EQUIPMENT SHALL BE SECURED WITH APPROVED HANGERS AND ANCHORS AND IN ACCORDANCE WITH APPROVED STANDARDS OF INSTALLATION.
- M. ALL BREAKERS SHOWN IN THE PANELBOARD SCHEDULE SHALL BE RATED AS SHOWN FOR BOTH CIRCUIT CAPACITY AND FAULT CURRENT INTERRUPTING CAPACITY.
- N. ALL PANELBOARDS, DISCONNECT SWITCHES, MOTOR STARTERS, AND CONTACTORS SHALL BE NEMA 1, UNLESS OTHERWISE NOTED.
- O. ELECTRICAL CONTRACTOR MUST BE AVAILABLE AT TIME OF DBS INSPECTION. COORDINATE WITH GENERAL CONTRACTON.
- P. FIELD VERIFY THE AVAILABLE FAULT CURRENT AT THE LANDLORD'S EXISTING PANEL AND PROVIDE A NEW, FULLY RATED, PANEL TO MATCH EXISTING.
- Q. CONTRACTOR TO MAKE FINAL CONNECTIONS IN EMS PANEL FOR LANDLORD PROVIDED LIGHTING CIRCUITS. 50% OF THE GENERAL LIGHTING CIRCUITS SHOULD BE ROUTED THROUGH THE CUSTOMER CONTROL ZONE.



CONTRACTOR TO PROVIDE 2" C,WITH 2# 3/0 CU,IN
EACH,AND(1) EMPTY CONDUIT WITH PULL WIRE UNLESS
UTILITY COMPANY STATES OTHERWISE, MINIMUM OF 36"
BELOW GRADE, TO UTILITY TRANSFORMER.
(CONTRACTOR MAY USE ALUMINUM WIRE ONLY FOR MAIN
FEED FROM UTILITY TRANSFORMER TO MAIN SWITCH,ALL
OTHER FEEDS MUST BE COPPER. IT IS THE
RESPONSIBILITY OF THE CONTRACTOR TO SIZE WIRE AND
GROUNDING APPROPRIATELY). IF ALUMINUM
CONDUCTORS ARE USED THEN PROVIDE ANTI-OXIDANT
PASTE LISTED FOR ALUMINUM CONDUCTORS AT

- I. CONTRACTOR TO INCLUDE IN THE CONTRACT ALL ONE TAP CHARGERS AND FEES FROM THE POWER COMPANY, AND COORDINATE WITH THE POWER COMPANY.
- PROVIDE PLAQUE STATING LOCATION OF DISCONNECTING MEANS.
   PANEL BOARD TO HAVE FULLY RATED BREAKERS UNLESS NOTED OTHERWISE.

## ONE LINE DIAGRAM



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LAUREL VILLAGE

# ONE LINE DIAGRAM AND GROUNDING

PROJ. NO. PROJ. ENGR. SCALE @ 24X36:

NTS

DRAWING NO. REV.

Branch Panel: A

**Location:BACK LOBBY Supply From: Utility Meter Mounting:RECESSED** 

120/240 Three Volts:

Phases: 3+1 Wires:

A.I.C Rating: 10kA Mains Type: MCCB Mains Rating: 100A

Enclosure Type 1

4-2/0 AWG THHN, 1-#2 GND THHN IN 2-1/2" EMT CONDUIT

	T	Г	Т		_		_				· ·	
CKT CIRCUIT DESCIRPTION	TRIP	POLES	A	<b>\</b>		В		С	POLES	TRIP	CIRCUIT DESRIPTION	СКТ
1 LIGHTING OUTDOOR	15A	1	300	200					1	15A	LIGHTING RETAIL AREA	2
3 CHANDELIER RECEPTION	15A	1			300	500			1	15A	LIGHTING RETAIL AREA	4
5 LIGHTING SPOTS	15A	1					200	300	1	15A	LIGHTING RETAIL AREA	6
7 LIGHTING SECURED CANNABIS PORUDTC STORAGE	15A	1	300	300					1	15A	LIGHTING HALL	8
9 LIGHTING BACK ENTRY/INTAKE	15A	1			300	200			1	15A	EMERGENCY AND EXIT LIGHTS	10
11 LIGHTING STORAGE-OFFICE-TOILET-SERVER	15A	1					450	300	1	15A	SIGNAGE	12
13 RECEPTACLES LOBBY	20A	1	720	300					1	20A	POS WORSTATION-1	14
15 RECEPTACLES RETAIL AREA	20A	1			720	300			1	20A	POS WORSTATION-2	16
17 RECEPTACLES RETAIL AREA	20A	1					720	300	1	20A	POS WORSTATION-3	18
19 RECEPTACLES SECURED STORAGE+INTAKE	20A	1	720	540					1	20A	RECEPTACLES BACK ENTRY+WC	20
21 RECEPTACLES HALL+TOILET	20A	1			720	500			1	20A	SERVER	22
23 RECEPTACLES OFFICE+TOILET	20A	1					720	500	1	20A	SERVER	24
25 SPARE	20A	1		2250					2	25A	WATER HEATER EWH-01	26
27 RECEPTACLES ON ROOF	20A	1			540	2250				ZJA	WAIER HEATER EVVH-OI	28
29 ATM	20A	1					500	500	1	20A	ATM	30
31 <sub>PTIL 01</sub>	25A	2	1100									32
33 RTU-01	25A	_			1100	2250			2	25A	WATER HEATER EWH-02	34
35 RTU-02	25A	2					1100	2250		ZJA	WATER REALER EVVH-UZ	36
37	ZJA	2	1100									38
39												40
41												42
TOTAL CONNECTED LOAD (VA)			783	30	9	680	7	840				
TOTAL CONNECTED CURRENT (A)			65	5		81		65				

Legend:

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand (VA)	Panels Totals	
Lighting	3650	125.00%	4563		
Receptacle	8300	60.00%	4980	Total Conn. Load (kVA):	25.35
Kitchen Equipment Non Dwelling Unit	0	65.00%	0	Total Est. Demand (kVA):	22.9425
Mechanical Equipment	13400	100.00%	13400	Total Conn. Current (A) Per 1 Phase:	70.41667
PANELS	0	65.00%	0	Total Est. Demand Current (A) Per 1 Phase:	63.72917

Notes

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DIMENSION AT SITE BEFORE COMMENCING

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PROJECT:

LAUREL VILLAGE

LOAD SCHEDULE

PROJ. NO. PROJ. ENGR. | SCALE @ 24X36: NTS DRAWING NO.

E.06

### PLUMBING SPECIFICATIONS

THE WORK INCLUDES MODIFICATION TO THE EXISTING PLUMBING SYSTEM AND PROVIDING NEW MATERIALS, FITTINGS AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING PLUMBING SYSTEM. THE WORK ALSO INCLUDES ROUGH-IN AND FINAL CONNECTIONS TO FOOD SERVICE EQUIPMENT AND BEVERAGE DISPENSING EQUIPMENT PROVIDED BY OTHERS. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND/OR ORDINANCES AND IS SUBJECT TO INSPECTION.

HOOK-UP CHARGES, PERMITS AND ALL OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING PLUMBING SYSTEM ARE INCLUDED AS A PART OF THIS SECTION.

WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF THE COMPLETED PROJECT. PROVIDE A SEPARATE LINE ITEM DEDUCT AMOUNT ON THE PROPOSAL FORM TO DELETE WARRANTY SERVICE, AT THE OWNER'S OPTION.

THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, FIXTURES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD ROUGH-IN DRAWINGS FOR PLUMBING FIXTURE INSTALLATION REQUIREMENTS. COMPLY WITH ALL APPLICABLE ADA INSTALLATION REQUIREMENTS.

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

PIPING SYSTEMS - GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK SUCH AS DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN ISOLATING DIALECTIC UNION. ALL HANGERS SHALL BE COMPATIBLE WITH PIPING MATERIAL TO PREVENT CORROSION.

PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT

FIXTURES/EQUIPMENT FURNISHED BY OTHERS: PLUMBING CONTRACTOR SHALL PROVIDE UTILITY CONNECTIONS REQUIRED SUCH AS WATER, GAS, AIR, SUPPLIES, WASTE OUTLET, TRAPS, ETC. AT ALL PLUMBING TYPE FIXTURES OR EQUIPMENT FURNISHED BY OWNER, GENERAL CONTRACTOR, FOOD SERVICE CONTRACTOR, EQUIPMENT SUPPLIER, ETC. INCLUDED ARE STOP VALVES, ESCUTCHEONS, AND CHROME PLATED BRASS TUBING WITH COMPRESSION FITTINGS.

SEWER AND WASTE PIPING: PROVIDE ALL DRAINS AND SEWERS WITHIN THE SPACE WITH CONNECTION TO THE EXISTING DRAINAGE SYSTEMS ON-SITE. SANITARY DRAINAGE PIPING ABOVE FLOOR SHALL BE CO-EXTRUDED PVC DWV (SCHEDULE 40) PIPE, FITTINGS AND CONNECTIONS. SANITARY DRAINAGE PIPING BELOW GRADE SHALL BE CO-EXTRUDED PVC DWV (SCHEDULE 40) PIPE WITH SOLVENT WELD FITTINGS MAY BE USED (WHERE PERMITTED BY CODE/LOCAL AUTHORITIES). ALL DRAINAGE PIPING SHALL BE UNIFORMLY PITCHED, 1/4" PER FOOT UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS, OR INDICATED ON THE DRAWINGS.

VENTS: PROVIDE A COMPLETE SYSTEM OF STANDARD WEIGHT CAST IRON NO-HUB VENT RISERS WHERE THE CEILING SPACE IS USED AS A RETURN AIR PLENUM OR USE CO-EXTRUDED PVC DWV (SCHEDULE 40) PIPE (WHERE PERMITTED BY CODE/LOCAL AUTHORITIES) WHERE THERE IS A DUCTED RETURN AIR SYSTEM. DO NOT USE PVC PIPE IN RETURN AIR PLENUM SPACES. THE VENT SYSTEM SHALL BE CARRIED THROUGH THE ROOF WITH APPROPRIATE FLASHING.

CONDENSATE AND INDIRECT DRAIN PIPING:PIPING ABOVE FLOOR SHALL BE CO-EXTRUDED PVC DWV (SCHEDULE 40) PIPE, FITTINGS AND CONNECTIONS. PIPING BELOW GRADE SHALL BE CO-EXTRUDED PVC DWV(SCHEDULE 40) PIPE WITH SOLVENT WELD FITTINGS.

CLEANOUTS: PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE, CONFORMING TO CODE REQUIREMENTS. PROVIDE SUITABLE WALL OR FLOOR CLEANOUTS WITH ACCESSORIES TO OBSCURE FROM VIEW.

WATER DISTRIBUTION PIPING: LAYOUT WATER PIPING SO THAT THE ENTIRE SYSTEM CAN BE DRAINED. HOT AND COLD WATER PIPING SHALL BE 1/2" MIN. CPVC PIPE WITH SOLVENT FITTING. PROVIDE WATER HAMMER ARRESTERS AT EACH FIXTURE OR GROUP OF FIXTURES AS REQUIRED. INSTALL CHROME PLATED BRASS ESCUTCHEON PLATES AT ALL PENETRATIONS THROUGH FINISHED SURFACES (INCLUDING CABINET INTERIORS).

PIPE INSULATION: INSULATE (AS ALLOWED BY CODE) ALL LISTED SERVICE PIPING AS FOLLOWS. DOMESTIC COLD/HOT WATER, HOT WATER RETURN, STORM WATER PIPING. PROVIDE 1" PREFORMED FIBERGLASS, ASJ/SS-11, FLAME SPREAD 25, SMOKE DEVELOPED 50, ASTM C-547. FOR CONDENSATE PIPING PROVIDE 1/2" THICK INSULATION OF SAME CHARACTERISTICS AS LISTED FOR 1" ABOVE. WHERE PERMITTED BY LOCAL CODES, PROVIDE 1/2" SELF-ADHESIVE UNICELLULAR FOAM PIPE INSULATION WITH PRE-FORMED PVC FITTING COVERS - EQUAL TO SELF-ADHESIVE ARMSTRONG 2000 WITH K FACTOR OF 0.27 AT 75 DEGREES MEAN TEMPERATURE. INSULATE ANY EXPOSED CONDENSATE PIPING WITH WASTE TEMPERATURE BELOW 60 DEGREES F.

SHUTOFF VALVES, WITH UNIONS SHALL BE PROVIDED FOR SERVICE TO EACH PLUMBING FIXTURE, FOOD SERVICE EQUIPMENT ITEM OR OTHER EQUIPMENT ITEM, TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. VALVES SHALL BE EQUAL TO JENKINS #902-T BALL VALVE, CHROME-FINISHED BRONZE, TEFLON SEATS AND PACKING, 400 LB. W.O.G., SOLDER END.

ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, ETC. ARE CONCEALED WITHIN WALLS, WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN SUSPENDED CEILINGS, ACCESS PANELS ARE NOT REQUIRED.

PIPING SYSTEM- PVC SCHEDULE 40, SCHEDULE 80 AND CPVC PIPE WITH SOLVENT FITTINGS SHALL BE USED WHERE PEMITTED BY CODE/LOCAL AUTHORITIES.

INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET FIXTURES LEVEL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL, FOR SANITARY JOINT, AND OMIT ESCUTCHEONS.

REPAIR EXISTING PLUMBING SYSTEM COMPONENTS DAMAGED BY CONSTRUCTION OPERATIONS AND RESTORE TO ORIGINAL CONDITIONS.

TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR FOUR (4) HOURS MINIMUM. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.

ROOF PENETRATIONS SHALL COMPLY WITH "SMACNA" AND "NRCA" STANDARDS, AND WITH THE REQUIREMENTS OF THE EXISTING ROOFING WARRANTY, IF APPLICABLE. DO NOT PERFORM ROOFING PENETRATIONS IN A MANNER WHICH WOULD VOID OR OTHERWISE LIMIT THE EXISTING ROOFING WARRANTY.

### **GENERAL NOTES**

- 1. THE INTENT OF THESE PLANS AND SPECIFICATIONS IS TO INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND SERVICES NECESSARY TO FURNISH, INSTALL, TEST, AND ADJUST A COMPLETE WORKABLE PLUMBING INSTALLATION AS SHOWN, PRESCRIBED, OR REASONABLY IMPLIED BUT NOT LIMITED TO THAT EXPLICITLY INDICATED IN THE CONTRACT DOCUMENTS, BUT NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE INTENT THEREOF.
- 2. THE ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2019 CALIFORNIA PLUMBING CODE, 2019 CALIFORNIA BUILDING CODE, 2019 CALIFORNIA ENERGY CONSERVATION CODE AND ALL OTHER APPLICABLE CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION. IN THE EVENT OF CONFLICT BETWEEN SPECIFICATIONS, CODES, AND REGULATIONS, THE MORE RESTRICTIVE SHALL APPLY.
- 3. COORDINATE ENTIRE INSTALLATION OF THE PLUMBING SYSTEM WITH THE WORK OF OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS. REPORT ANY DISCREPANCIES, IN WRITING, TO THE ENGINEER PRIOR TO COMMENCEMENT
- 4. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT IN ACCORDANCE
- 5 PROVIDE ONE YEAR WARRANTY ON ALL PARTS AND LABOR.
- 6. THE DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW SCOPE. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO PROVIDE THE BEST ARRANGEMENT OF ALL DUCT, PIPE, CONDUIT, ETC.
- 7. ALL CUTTING AND PATCHING OF THE EXISTING STRUCTURE SHALL BE PROVIDED UNDER OTHER SECTIONS OF THE WORK. PROVIDE NECESSARY REQUIREMENTS TO THE PROJECT SUPERINTENDENT.
- 8. ALL HOT WATER PIPING AND RECIRCULATION PIPING (EXCEPT RUNOUTS 12 FT. OR SHORTER TO INDIVIDUAL FIXTURES) SHALL BE INSULATED TO MEET THE REQUIREMENTS OF THE 2019 CALIFORNIA ENERGY CONSERVATION CODE
- 9. CONDENSATE DRAINS SHALL BE PROVIDED FOR EACH AIR CONDITIONING UNIT. HORIZONTAL CONDENSATE DRAINS ABOVE ANY CEILING SHALL BE INSULATED WITH MIN. 3/8" THICK CLOSED CELL INSULATION.
- 10. PIPING:
- A. WASTE, VENT, AND STORM DRAIN PIPING SHALL BE CO-EXTRUDED PVC SCHEDULE 40) PIPE
- B. WATER PIPE SHALL BE CPVC PIPE
- C. CONDENSATE PIPING SHALL BE CO-EXTRUDED PVC (SCHEDULE 40) PIPE D. INSIDE GAS PIPING SHALL BE BLACK IRON SCHEDULE 40 WITH MALLEABLE IRON FITTINGS. OUTSIDE SHALL BE GALVANIZED IRON SCHEDULE 40 WITH GALVANIZED FITTINGS. GAS LINE TO BE PAINTED GRAY IN COLOR. A 24 HOUR METERED GAS TEST SHALL BE REQUIRED.
- E. ALL PIPING NOT ENCLOSED IN CONDITION SPACE OR AT EXTERIOR WALLS SHALL BE INSULATED.
- F. PIPING: PVC SCHEDULE 40, SCHEDULE 80 AND CPVC PIPING WITH SOLVENT WELD FITTINGS SHALL BE USED WHERE PERMITTED BY CODE/LOCAL AUTHORITIES
- 11. ALL VENTS OR EXHAUSTS SHALL BE AT LEAST 10 FT. AWAY OR 3 FT. ABOVE ANY WINDOW, DOOR, OPENING, OR AIR INTAKE.
- 12. CLEANOUTS SHALL BE INSTALLED PER THE CALIFORNIA PLUMBING CODE.
- 13. PROVIDE WATER TIGHT FLASHINGS WHEREVER PIPES PASS THROUGH EXTERIOR WALLS, ROOFS, OR FLOORS.
- 14. PROVIDE ISOLATION FOR ALL PIPES THAT COME IN CONTACT WITH THE
- 15. LOCATION OF EXISTING UTILITIES AND POINTS OF CONNECTION ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND SERVICES PRIOR TO STARTING WORK OF THIS SECTION. IF INDICATED POINTS OF CONNECTION CANNOT BE MADE TO EXISTING UTILITIES AS FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO INSTALLING ANY WORK WHICH MAY BE AFFECTED.
- 16. VALVES SHALL BE NIBCO, JENKINS, HAMMOND, RED & WHITE OR APPROVED EQUAL. SERVICE PRESSURE SHALL BE SUITABLE FOR SERVICE INTENDED. THE MAIN WATER SHUT OF VALVE SHALL BE A FULL PORT BALL TYPE AND APPROVED FOR SERVICE INTENDED.
- 17. CONTRACTOR SHALL PROVIDE ALL SHUT OFF VALVES AS NECESSARY TO ISOLATE ANY EQUIPMENT, PLUMBING ITEMS, OR FIXTURES, THAT MAY NEED SERVICING OR ARE SUBJECT TO FAILURE WHETHER OR NOT SUCH VALVES ARE SHOWN ON THE DRAWINGS.
- 18. PROVIDE HANGERS AND SUPPORTS AS REQUIRED. PLUMBERS TAPE AND WIRE ARE NOT ACCEPTABLE.
- 19. CONTRACTOR IS RESPONSIBLE FOR HIS OWN TRENCHING, BACKFILL, AND COMPACTION OF TRENCHES NECESSARY TO COMPLETE HIS SCOPE OF WORK. BACKFILLED TRENCHES SHALL BE RETURNED TO THEIR ORIGINAL GRADE UNLESS NOTED OTHERWISE.
- 20. CONTRACTOR SHALL AFFIX A MAINTENANCE LABEL TO ALL EQUIPMENT REQUIRING ROUTINE MAINTENANCE AND SHALL PROVIDE MAINTENANCE AND OPERATIONAL MANUALS IN ACCORDANCE WITH THE SPECIFICATIONS.
- 21. ALL EQUIPMENT THAT REQUIRES KEYS OR SPECIAL TOOLS TO OPERATE SHALL SUPPLY THE OWNER WITH TWO OF ANY SUCH KEYS OR TOOLS FOR EACH PIECE OF EQUIPMENT THAT REQUIRE THE SAME.
- 25. ANY CHANGE OR DEVIATION FROM THESE PLANS OR SPECIFICATIONS SHALL REQUIRE THE APPROVAL, IN WRITING, OF THE ENGINEER PRIOR TO COMMENCEMENT OF SUCH WORK.
- 26. ALL PLUMBING, ELECTRICAL, AND GAS LINES SHALL BE CONCEALED WITHIN THE THE BUILDING STRUCTURE TO AS GREAT EXTENT AS POSSIBLE. ALL LINES NOT CONCEALED SHALL BE SECURED 6" OFF THE FLOOR AND 3/4" FROM THE WALLS USING STANDOFF BRACKETS
- 27. AN APPROVED BACKFLOW PREVENTOR SHALL BE PROPERLY INSTALLED UPSTREAM OF ANY POTENTIAL HAZARD BETWEEN THE POTABLE WATER SUPPLY AND SOURCE OF COMTAMINATION.
- 28. WATER SUPPLY CARBONATORS SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTOR. THE RELIEF VALVE SHALL DRAIN IN-DIRECTLY TO A FLOOR SINK WITH A 1" MIN. AIR GAP.

SS or W NEW SEWER OR WASTE  V NEW VENT  CW NEW COLD WATER  HW NEW HOT WATER  G NEW GAS  CD NEW CONDENSATE DRAIN  CA CA COMPRESSED AIR  FCO FLOOR CLEANOUT  WCO WALL CLEANOUT  FD FLOOR SINK  FF FLOOR SINK  FR PRV  BACKFLOW PREVENTER W SOV'S  T & P  POD POINT OF CONNECTION  FIP PIPE UP  POC POINT OF CONNECTION  ABV ABOVE  AFF ABOVE FINISH FLOOR  AP ACCESS PANEL  BEL BELOW  BLDG BUILDING  CLG CEILING  CONTINUATION  EL ELEVATION  FIN FINISH  FIL FLOOR  GR GRADE  NIS NOT TO SCALE  OC ON CENTER  SHT SHEET  TYP TYPICAL  VTR VENTTHRU ROOF		DESCRIPTION	REV	SYMBOL
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#### PLUMBING / GENERAL NOTES

RATINGS.

BATHTUBS AND WHIRLPOOL BATHTUBS. THE MAX. HOT WATER TEMPERATURE DISCHARGING SHALL BE LIMITED TO 120 DEGREES. CPC

BATHTUBS WASTE OPENING IN FLOOR OVER CRAWL SPACES SHALL BE PROTECTED BY A METAL SCREEN NOT EXCEEDING 12" OR SOLID COVER. CPC 313.12.4 2019 SHOWERS AND TUB-SHOWERS COMBINATIONS IN ALL BUILDINGS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE

BALANCE, THERMOSTATIC, OR COMBINATION OF BOTH THAT PROVIDE SCALD AND THERMAL SHOCK PROTECTION. VALVES SHALL BE ADJUSTED TO DELIVER A MAXIMUM MIXED WATER SETTING OF 120 DEGREES FAHRENHEIT. THE WATER HEATER THERMOSTAT SHALL NOT BE CONSIDERED A SUITABLE CONTROL FOR MEETING THIS PROVISION, 418.0 CPC/2019

VERIFY AND WHERE WATER PRESSURE EXCEEDS 80 PSI AN APPROVED PRESSURE REGULATOR PRECEDED BY AN ADEQUATE STRAINER SHALL BE INSTALLED 608.2 CPC / 2019 1-INSTALL TEMPERATURE AND PRESSURE RELIEF VALVE WITH MINIMUM 34" DRAIN PIPE AND TERMINATE TO THE EXTERIOR OF THE BUILDING OVER

WINDOW, DOOR OR VISIBLE LOCATION. DISCHARGE FROM A RELIEF VALVE INTO A WATER HEATER PAN SHALL BE PROHIBITED CPC 608.5, 2-PROVIDE (ON THE PLANS) A GAS PIPING DIAGRAM OF THE GAS PIPING SYSTEM THAT INCLUDES ALL PIPE SIZES, PIPE LENGTHS AND BTU

3-SUBMIT GAS LOAD CALCULATIONS IN ACCORDANCE WITH CPC TABLE 12-8 TO VERIFY THE PIPE SIZES ARE ADEQUATE FOR THE MAXIMUM DELIVERY CAPACITY OF CUBIC FEET OF GAS PER HOUR. 4- A WHOLE HOUSE HAS TEST IS REQUIRED UPON COMPLETION OF THE INSTALLATION, ALTERATION, OR REPAIR OF ANY GAS PIPING. THE CITY SHALL BE NOTIFIED WHEN GAS PIPING IS READY FOR INSPECTION. 5- 2 GPM SHOWER FIXTURE, MAX.1.5 GPM BATHROOM FAUCET, MAX. 2 GPM KITCHEN

FAUCET, AND MAX 1.28 WATER CLOSET TO CONFORM TO CITY GREEN REQUIREMENTS.

BATHROOMS: PROVIDE AN EXHAUST FAN (AT LEAST 50 CFM) DUCTED TO THE OUTSIDE (MINIMUM 4" DIAMETER FLEX DUCT WITH A MAXIMUM LENGTH OF 70") WITH A MINIMUM VENTILATION RATE OF 100 CFM, IDENTIFY THE REQUIREMENT FOR A BACKDRAFT DAMPER ON THE DUCT, AN ENERGY STAR COMPLIANT EXHAUST FAN THAT IS CONTROLLED BY A HUMIDITY SENSOR THAT IS CAPABLE OF BEING ADJUSTED BETWEEN ≤ 50-PERCENT TO 80-PERCENT HUMIDITY; AND A SEPARATE SWITCH FROM THE LIGHT UNLESS THE FAN IS ALLOWED TO OPERATE WITH THE LIGHT SWITCHED OFF.

6-NOTE THAT ALL PLUMBING VENTS SHALL TERMINATE NOT LESS THAN 6" ABOVE ROOF NOR LESS THAN 1' FROM ANY VERTICAL SURFACE. VENTS SHALL TERMINATE NOT LESS THAN 10" FROM OR 3' ABOVE ANY WINDOW, DOOR OPENING AIR INTAKE, OR VENT SHAFT NOR 3' FROM LOT LINE. (2019 CPC 906) IF WATER PRESSURE EXCEEDS 80 PSI, AND EXPANSION TANK AND AN APPROVED PRESSURE REGULATOR SHALL BE INSTALLED. (2019 CPC608.2) NON-REMOVABLE BACK FLOW PRE-VENTER OR BIBB-TYPE VACUUM BREAKER WILL BE INSTALLED ON ALL EXTERIOR HOSE BIBS. (2019 CPC603.4.7) HOT WATER RE-CIRCULATING SYSTEM IS INSTALLED, THE ENTIRE LENGTH OF HOT WATER PIPES SHALL BE INSULATED. (2019 CALIFORNIA ENERGY REGULATIONS 150 (J)) HOT WATER PIPE FROM THE WATER HEATER TO THE KITCHEN WILL BE INSULATED. (2019 CALIFORNIA ENERGY REGULATIONS 151 (F)8 D)

1-PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION BY ONE OF THE FOLLOWING: A. RETENTION BASINS. B. WHERE STORM WATER IS CONVEYED TO A PUBLIC DRAINAGE SYSTEM, WATER SHALL BE FILTERED BY USE OF A BARRIER SYSTEM, WATTLE OR OTHER APPROVED METHOD.

2-SITE GRADING OR DRAINAGE SYSTEM WILL MANAGE ALL SURFACE WATER FLOWS TO KEEP WATER FROM ENTERING RIIII DINGS (SWALES WATER COLLECTION FRENCH DRAINS, ETC.). CGC SECTION 4.106.3. EXCEPTION: ADDITIONS NOT ALTERING THE

3-WHEN A SHOWER IS PROVIDED WITH MULTIPLE SHOWER HEADS, THE SUM OF FLOW TO ALL THE HEADS SHALL NOT EXCEED 1.8 GPM @ 80 PSI, OR THE SHOWER SHALL BE DESIGNED SO THAT ONLY ONE HEAD IS ON AT A TIME. CGC SECTION 4.303.1.3.2. 4-LANDSCAPE IRRIGATION WATER USE SHALL HAVE WEATHER OR SOIL BASED CONTROLLERS. CGC SECTION 4.304.1

5-THE PLANS THAT A MINIMUM OF 65% OF CONSTRUCTION WASTE IS TO BE RECYCLED. CGC SECTION 4.408.1. 6-THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN,

PER CGC SECTION 4.408.2. 7-THE BUILDER IS TO PROVIDE AN OPERATION MANUAL (CONTAINING INFORMATION FOR MAINTAINING APPLIANCES, ETC.) FOR THE OWNER AT THE TIME OF FINAL INSPECTION. CGC SECTION 4.410.1.

8-THE GAS FIREPLACE(S) SHALL BE A DIRECT-VENT SEALED- COMBUSTION TYPE. WOODSTOVE OR PELLET STOVES MUST BE US EPA PHASE II RATED APPLIANCES. CGC SECTION 4.503.1.

#### WATER SAVING STANDARDS.

THE WATER SAVING PERFORMANCE STANDARDS FOR A PLUMBING FIXTURE ARE THOSE ESTABLISHED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), CURRENT REVISION, OR THE FOLLOWING STANDARDS, WHICHEVER ARE THE MORE RESTRICTIVE 1.THE MAXIMUM FLOW FROM A SINK OR LAVATORY FAUCET OR A FAUCET AERATOR SHALL NOT EXCEED 0.5 GALLONS OF WATER PER MINUTE AT A PRESSURE OF 60 POUNDS PER SQUARE INCH WHEN TESTED IN ACCORDANCE WITH ANSI TESTING PROCEDURES 2.THE MAXIMUM VOLUME OF WATER PER FLUSH FROM A TOILET SHALL NOT EXCEED AN AVERAGE OF 1 28 GALLONS WHEN TESTED IN ACCORDANCE WITH ANSI TESTING

3. THE MAXIMUM VOLUME OF WATER PER FLUSH FROM A URINAL AND THE ASSOCIATED FLUSH VALVE, IF ANY, SHALL NOT EXCEED AN AVERAGE OF ONE GALLON WHEN TESTED IN ACCORDANCE WITH ANSI TESTING PROCEDURES

#### SPECIAL NOTICE TO CONTRACTORS

- . ALL CONTRACTORS (GENERAL CONTRACTOR AND SUB-CONTRACTORS) BIDDING THIS PROJECT ARE REQUIRED TO VISIT THE JOB SITE AND VERIFY THE EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. CONTRACTORS ARE TO CAREFULLY REVIEW ALL CONSTRUCTION DOCUMENTS AND NOTE ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CONDITIONS OBSERVED AT THE JOB SITE PRIOR TO SUBMISSION OF ANY BID. THE BUILDING OWNER REPRESENTATIVE LISTED BELOW MAY BE CONTACTED FOR ACCESS TO THE JOB SITE.
- 2. CONTRACTORS ARE RESPONSIBLE FOR VERIFYING THE LOCATION AND CONDITION OF ALL POINTS OF CONNECTION, LOCATION AND CONDITION OF ALL BUILDING (ROOF/FLOOR/CEILING) PENETRATIONS, LOCATION AND CONDITION OF ALL UTILITIES AND BUILDING SYSTEMS INCLUDING, BUT NOT LIMITED TO, GAS, WATER, SEWER, VENT, ELECTRICAL, BUILDING MECHANICAL SYSTEMS, DUCT CONNECTIONS, EXHAUST/OUTSIDE AIR CONNECTIONS, SECURITY, FIRE ALARM, DATA, AND PHONE PRIOR TO SUBMISSION OF THEIR BID.
- 3. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CONDITIONS OBSERVED SHALL BE BROUGHT TO THE ATTENTION, IN WRITING, TO THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

CLIENT:

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4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY TEMPORARY SUPPORT TO THE BUILDING AND ANY ADJACENT STRUCTURES.

DESCRIPTION DATE BY REV. NØ. FOR APPROVAL 04/22 A.B

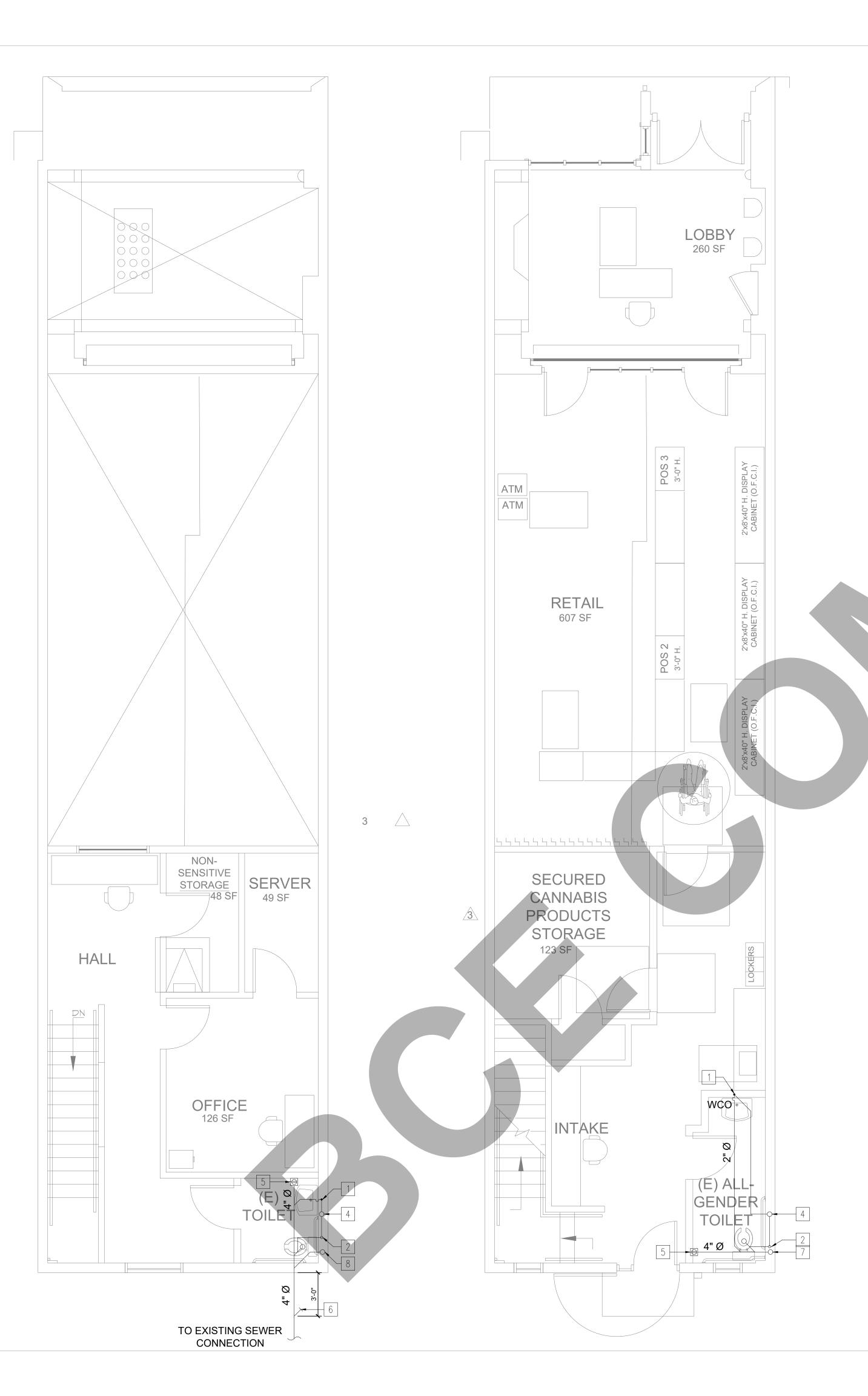
PROJECT:

LAUREL VILLAGE

PLUMBING LIST OF SYMBOLS AND GENERAL NOTES.

SCALE @ 24X36: PROJ. NO. PROJ. ENGR. NTS DRAWING NO. REV.

P 0.0



#### GENERAL NOTES:

APPLICABLE.

1. PRIOR TO PERFORMING WORK,

LATEST ADOPTED AND APPROVED EDITION F THE BUILDING CODE. . PRIOR TO PERFORMING WORK, CONTRACTOR TO COORDINATE PIPE
ROUTING WITH ALL OTHER TRADES AND
EXISTING FIELD CONDITIONS.

3. REFER TO MECHANICAL PLANS FOR PLUMBING SPECIFICATION OF MATERIAL, INSULATION AND INSTALLATION INTERIOR SIDE OF THE BUILDING WALL REQUIREMENTS. INSULATION.

4. CONTRACTOR IS RESPONSIBLE FOR ROUGH-IN COORDINATION AND CONTRACTOR SHALL PROVIDE VALVES LOCATED ABOVE LAY-IN CEILING OR LOCATIONS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND FIXTURES. 24"x24" CEILING ACCESS PANEL COORDINATE FINAL LOCATION AND SIZE WITH ARCHITECT. PROVIDE BALANCING

VALVES FOR HOT WATER RETURN SYSTEM AS REQUIRED.

PRIOR TO PERFORMING WORK,
CONTRACTOR TO COORDINATE EXACT PIPE
SIZES, INVERT ELEVATIONS, PRESSURES FOR
LOCATIONS OF ANY SEWER, WATER PIPING
AND WATER METER WITH CIVIL UTILITIES

AND WATER METER WITH CIVIL UTILITIES

6. ALL NOTCHING, BORING, AND CUTTING OF
HOLES IN WALL STUDS AND FLOOR JOISTS
SMALLER SHALL BE SLOPED AT \$\frac{1}{4}\text{" PER FOOT PIPING 4" AND LARGER SHALL BE SLOPED}

The service of the servi SMALLER SHALL BE SLOPED AT  $\frac{1}{4}$ " PER FOOT. PIPING 4" AND LARGER SHALL BE SLOPED

> 11. ALL CONDENSATE DRAIN PIPING SHALL BE ALL PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE AS REQUIRED BY LOCAL AUTHORITY HAVING
>
> 111. ALL CONDENSATE DRAIN PIPING SHALL BE SLOPED AT \$\frac{1}{8}" PER FOOT AND PROVIDE ACCESSIBLE CLEANOUTS AT ALL CHANGES OF DIRECTION. OF DIRECTION.

ALL WATER PIPING SHALL BE INSTALLED ON SHALL BE A MINIMUM OF 10' FROM ANY

13. REFER TO THE PLUMBING DIAGRAMS FOR GUIDANCE OF INSTALLATION INTENT. CONTRACTOR IS TO PROVIDE ALL COMPONENTS NECESSARY TO MEET THE DESIGN INTENT, WHETHER SHOWN IN

PLUMBING SHEET NOTES

5 - 4" FLOOR CLEAN-OUT. WASTE DROP AND 2" VENT RISE. 6 OUTDOOR CLEAN-OUT. - 2" VENT RISE TO HIGH LEVEL.

7 – 4" WASTE STACK TO BELOW. - 1-1/2" VENT RISE TO HIGH LEVEL.

4 - 3" VENT STACK TO ABOVE.

8 - 4" WASTE STACK FROM ABOVE.

### PLUMBING PIPING MATERIAL SCHEDULE

PIPING SYSTEM	LOCATION	ACCEPTABLE PIPING MATERIAL
WASTE	BELOW AND ABOVE GRADE	ASTM D 2665 PVC SCHEDULE 40, SOCKET FITTINGS DWV
& VENT	FROM SECOND TO FIRST FLOOR	ASTM A 888 CAST IRON, NO HUB SYSTEM

### MINIMUM PIPE SIZE PER FIXTURE

FIXTURE UNIT	DR (INCH)	VENT (INCH)
SHOWER	3	2
WATER CLOSET	4	2
LAVATORY	1-1/2	2
KITCHEN SINK	2	2
DISHWASHER	1-1/2	2
BATHTUB	3	2
LAUNDRY MACHINE	1-1/2	2

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DIMENSION AT SITE BEFORE COMMENCING

4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY TEMPORARY

SUPPORT TO THE BUILDING AND ANY ADJACENT STRUCTURES.

DESCRIPTION (REV. NO. 00 FOR APPROVAL 04/22 A.B

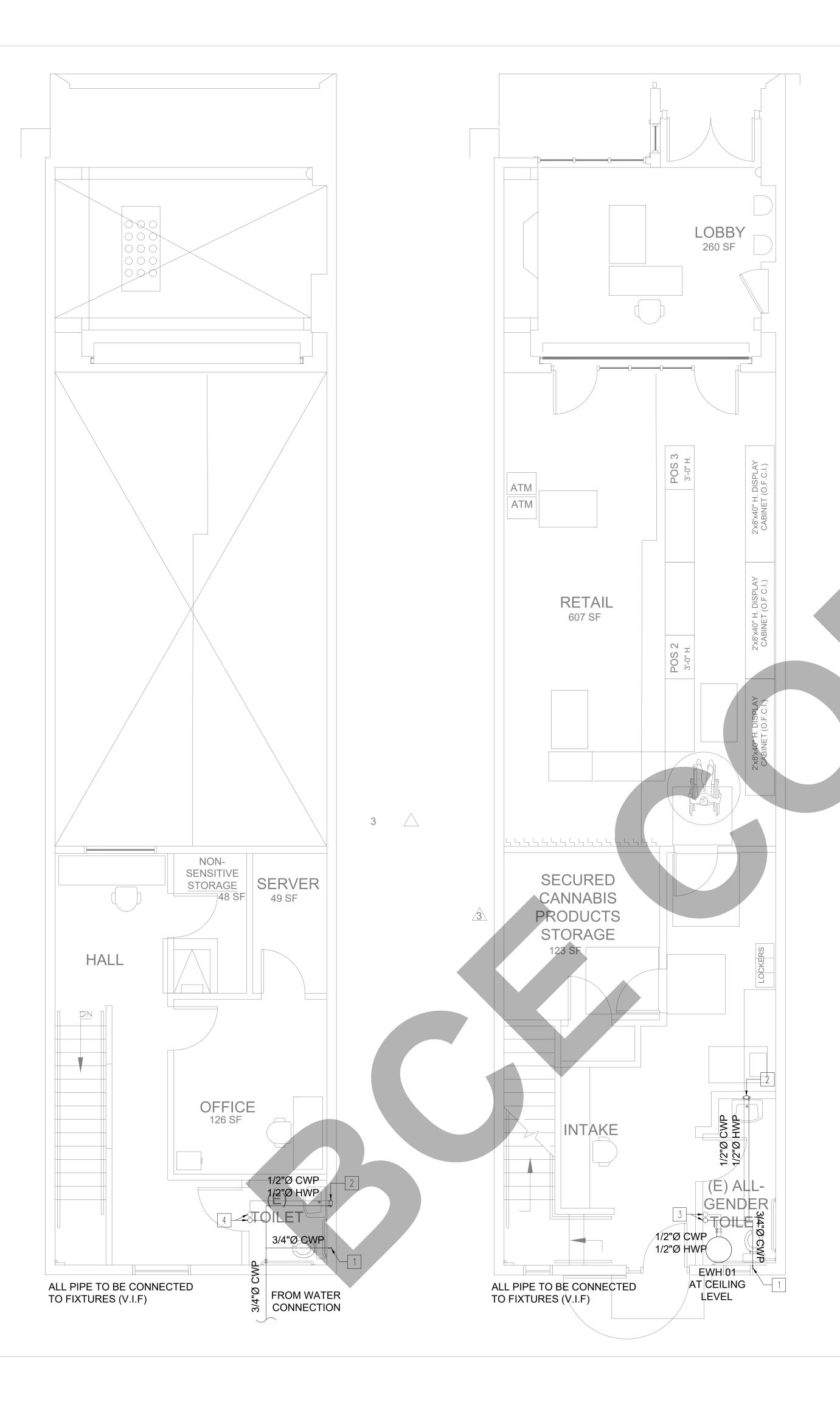
PROJECT:

LAUREL VILLAGE

## TITLE: SANITARY LAYOUTS

SCALE @ 24X36: PROJ. NO. PROJ. ENGR. 1/4"=1'-0" DRAWING NO. REV.

P 1.0



### GENERAL NOTES:

- 1. PRIOR TO PERFORMING WORK, 5. CONTRACTOR IS RESPONSIBLE FOR ANY CONTRACTOR TO COORDINATE EXACT PIPE REQUIRED CUTTING AND PATCHING. SIZES, INVERT ELEVATIONS, PRESSURES FOR AND WATER METER WITH CIVIL UTILITIES DRAWINGS, AND ANY OTHER ENGINEER AS APPLICABLÉ.
- HOLES IN WALL STUDS AND FLOOR JOISTS SHALL BE PERFORMED BASED ON THE LATEST ADOPTED AND APPROVED EDITION OF THE BUILDING CODE. 2. PRIOR TO PERFORMING WORK, CONTRACTOR TO COORDINATE PIPE 7. ALL PLUMBING FIXTURES SHALL BE OF

INSULATION.

- WATER CONSERVATION TYPE AS REQUIRED ROUTING WITH ALL OTHER TRADES AND EXISTING FIELD CONDITIONS. BY LOCAL AUTHORITY HAVING 3. REFER TO MECHANICAL PLANS FOR
- 4. CONTRACTOR IS RESPONSIBLE FOR ROUGH-IN COORDINATION AND LOCATIONS. REFER TO ARCHITECTURAL 24"x24" CEILING ACCESS PANEL PLANS FOR LOCATIONS AND FIXTURES.

REQUIREMENTS.

- VALVES FOR HOT WATER RETURN SYSTEM AS REQUIRED. LOCATIONS OF ANY SEWER, WATER PIPING 6. ALL NOTCHING, BORING, AND CUTTING OF 10. ALL SANITARY DRAINAGE PIPING 3" AND
  - SMALLER SHALL BE SLOPED AT  $\frac{1}{4}$ " PER FOOT. PIPING 4" AND LARGER SHALL BE SLOPED AT <sup>1</sup>/<sub>8</sub>" PER FOOT. 11. ALL CONDENSATE DRAIN PIPING SHALL BE

SLOPED AT  $\frac{1}{8}$ " PER FOOT AND PROVIDE ACCESSIBLE CLEANOUTS AT ALL CHANGES

- OF DIRECTION. PLUMBING SPECIFICATION OF MATERIAL, INTERIOR SHALL BE INSTALLED ON INSULATION AND INSTALLATION

  REQUIREMENTS.

  12. VENTS THAT TERMINATE AT THE ROOF SHALL BE INSTALLED ON INTERIOR SIDE OF THE BUILDING WALL FRESH AIR INTAKE.
  - 13. REFER TO THE PLUMBING DIAGRAMS FOR GUIDANCE OF INSTALLATION INTENT. 9. CONTRACTOR SHALL PROVIDE VALVES LOCATED ABOVE LAY-IN CEILING OR CONTRACTOR IS TO PROVIDE ALL COMPONENTS NECESSARY TO MEET THE COORDINATE FINAL LOCATION AND SIZE DESIGN INTENT, WHETHER SHOWN IN WITH ARCHITECT, PROVIDE BALANCING

### PLUMBING SHEET NOTES

- 1 DCW DROP IN WALL.
- 2 DCW & DHW DROP IN WALL.
- 3 DCW/DHW/DHWR FROM BELOW FLOOR.
- 3 DCW/DHW/DHWR TO ABOVE FLOOR.

#### SCHEDULE No. 1 ELECTRIC WATER HEATER SCHEDULE

TAG	EWH-01
LOCATION	TOILET
MANUFACTURER	AO SMITH
MODEL	ENSB-30*
TYPE	ELECTRIC
RATED STORAGE (gal.)	30
RECOVERY (GPH @90°F)	21
STANDARD ELEMENT WATTAGE (W)	4500
WATER CONNECTION (.IN)	3/4
APPROX. WEIGHT (lbs)	95

### PLUMBING PIPING MATERIAL SCHEDULE

PIPING SYSTEM	LOCATION	ACCEPTABLE PIPING MATERIAL
DOMESTIC	BELOW GRADE	ASTM B 88 TYPE K SOLDERED COPPER
WATER	ABOVE GRADE	PEX A COMPRESSION JOINT

BUILDIN	NG WATER LOA	D
DESCRIPTION	LOAD	PIPE SIZE
BESCHI HOTT	FU	PEX
DCW	7.0	3/4"
DHW	2.0	1/2"
TOT. COMBINED	9.0	3/4"

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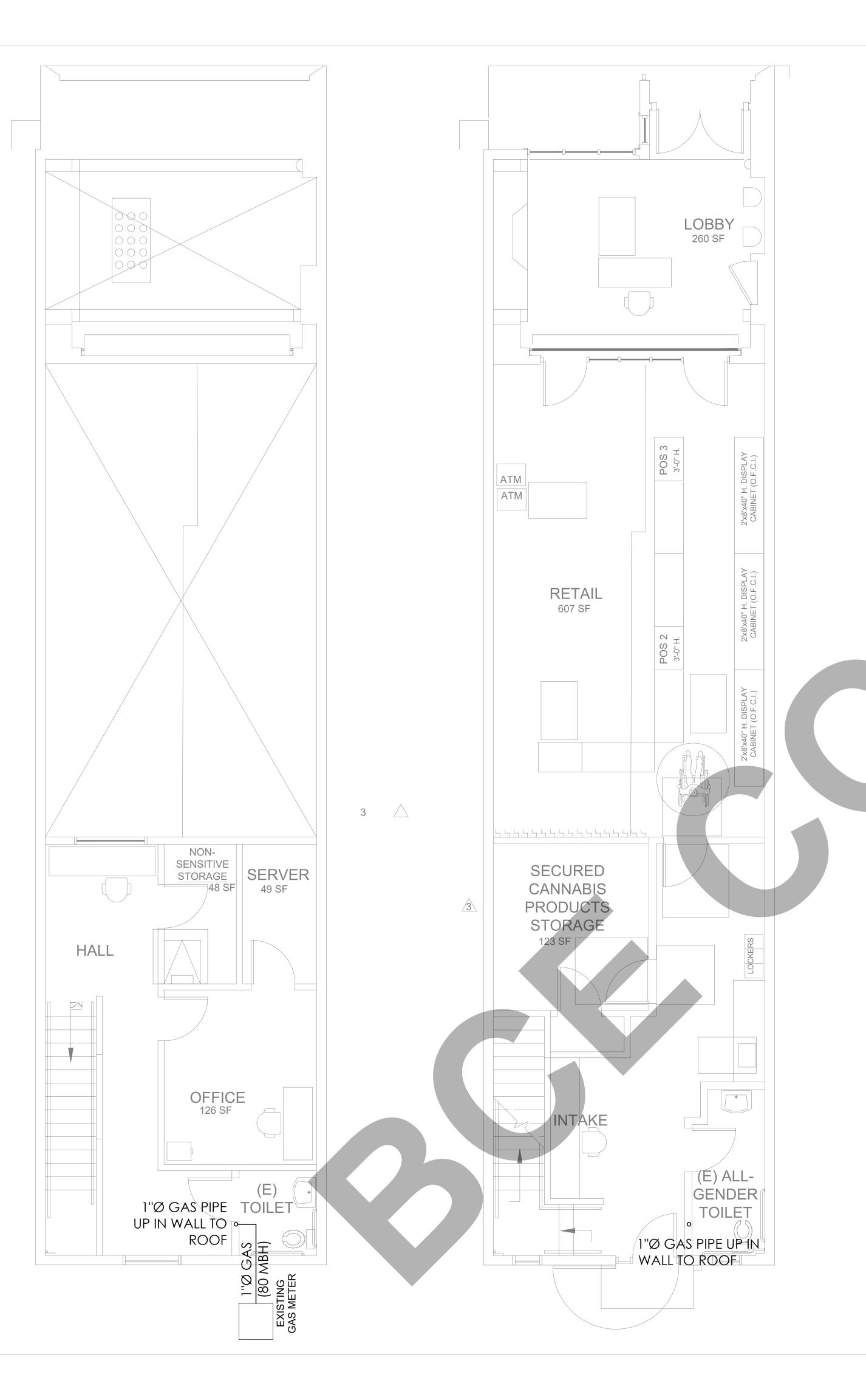
PROJECT:

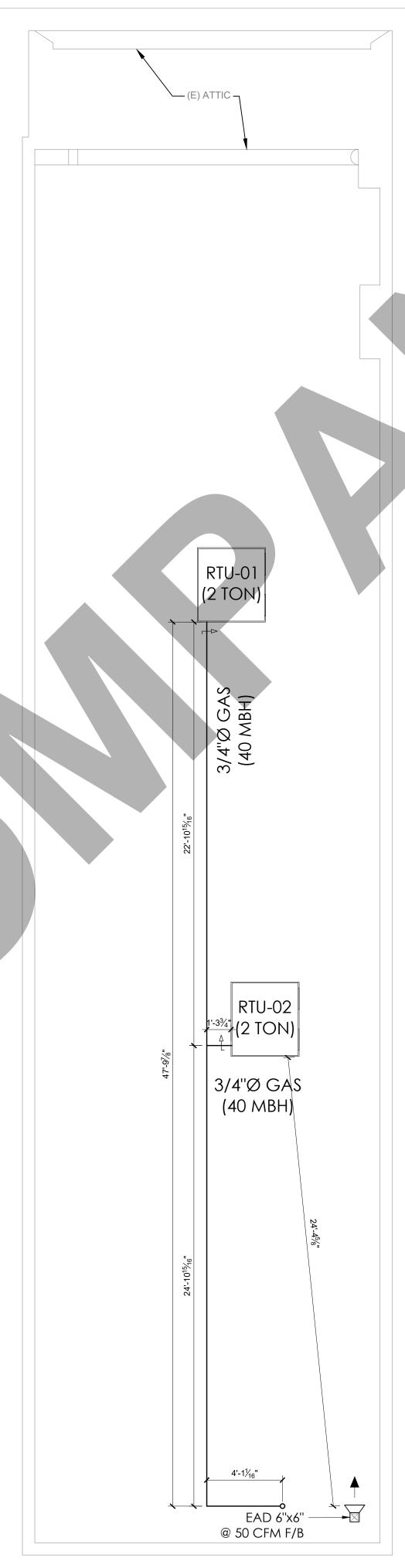
LAUREL VILLAGE

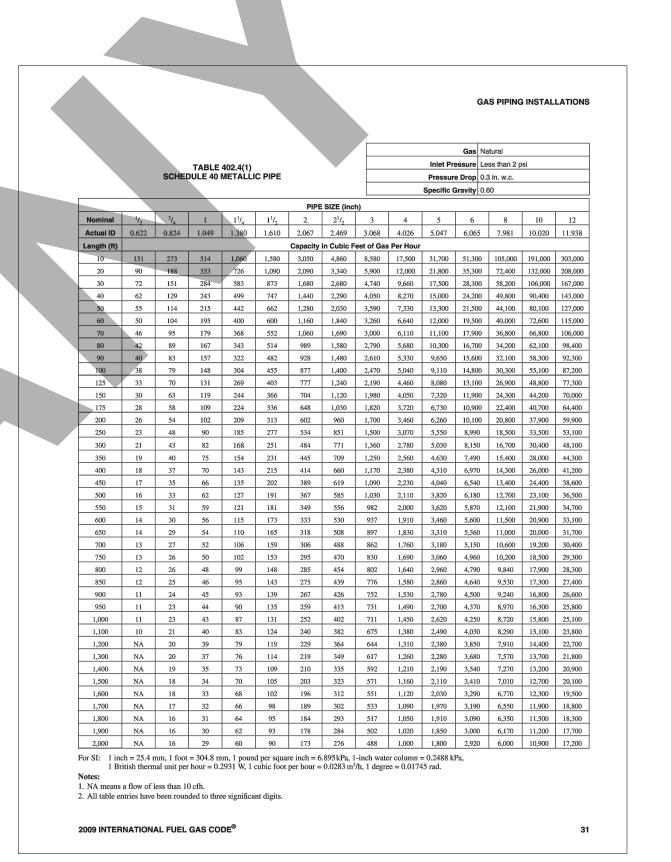
## TITLE: WATER SUPPLY LAYOUTS.

PROJ. NO. PROJ. ENGR. SCALE @ 24X36: 1/4"=1'-0" DRAWING NO. REV.

P 2.0







### THE TOTAL GAS PIPE LENGTH FROM GAS METER TO THE FARTHEST EQUIPMENT IS APPRX. 85 FEET.

ALL GAS PIPES ARE METALLIC SCHD. 40

#### GENERAL NOTES:

- 1. PRIOR TO PERFORMING WORK, CONTRACTOR TO COORDINATE EXACT PIPE SIZES, INVERT ELEVATIONS, PRESSURES FOR LOCATIONS OF ANY SEWER, WATER PIPING AND WATER METER WITH CIVIL UTILITIES DRAWINGS, AND ANY OTHER ENGINEER AS APPLICABLE.
- 2. PRIOR TO PERFORMING WORK, CONTRACTOR TO COORDINATE PIPE ROUTING WITH ALL OTHER TRADES AND EXISTING FIELD CONDITIONS.
- REFER TO MECHANICAL PLANS FOR PLUMBING SPECIFICATION OF MATERIAL, INSULATION AND INSTALLATION REQUIREMENTS.
   CONTRACTOR IS RESPONSIBLE FOR ROUGH-IN COORDINATION

AND LOCATIONS. REFER TO ARCHITECTURAL PLANS FOR

- LOCATIONS AND FIXTURES.

  5. CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED CUTTING AND PATCHING.
- 6. ALL NOTCHING, BORING, AND CUTTING OF HOLES IN WALL STUDS AND FLOOR JOISTS SHALL BE PERFORMED BASED ON THE LATEST ADOPTED AND APPROVED EDITION OF THE BUILDING CODE.
- ALL PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION
   TYPE AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
   ALL WATER PIPING SHALL BE INSTALLED ON INTERIOR SIDE OF THE
- 8. ALL WATER PIPING SHALL BE INSTALLED ON INTERIOR SIDE OF THE BUILDING WALL INSULATION.
  9. CONTRACTOR SHALL PROVIDE VALVES LOCATED ABOVE LAY-IN CEILING OR 24"x24" CEILING ACCESS PANEL COORDINATE FINAL
- LOCATION AND SIZE WITH ARCHITECT. PROVIDE BALANCING VALVES FOR HOT WATER RETURN SYSTEM AS REQUIRED.

  10. ALL SANITARY DRAINAGE PIPING 3" AND SMALLER SHALL BE SLOPED AT \( \frac{1}{4} \)" PER FOOT. PIPING 4" AND LARGER SHALL BE SLOPED
- AT ½" PER FOOT.

  11. ALL CONDENSATE DRAIN PIPING SHALL BE SLOPED AT ½" PER FOOT AND PROVIDE ACCESSIBLE CLEANOUTS AT ALL CHANGES OF
- DIRECTION.

  12. VENTS THAT TERMINATE AT THE ROOF SHALL BE A MINIMUM OF 10' FROM ANY FRESH AIR INTAKE.
- 13. REFER TO THE PLUMBING DIAGRAMS FOR GUIDANCE OF INSTALLATION INTENT. CONTRACTOR IS TO PROVIDE ALL COMPONENTS NECESSARY TO MEET THE DESIGN INTENT, WHETHER SHOWN IN DIAGRAM OR NOT.

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PROJECT:

LAUREL VILLAGE

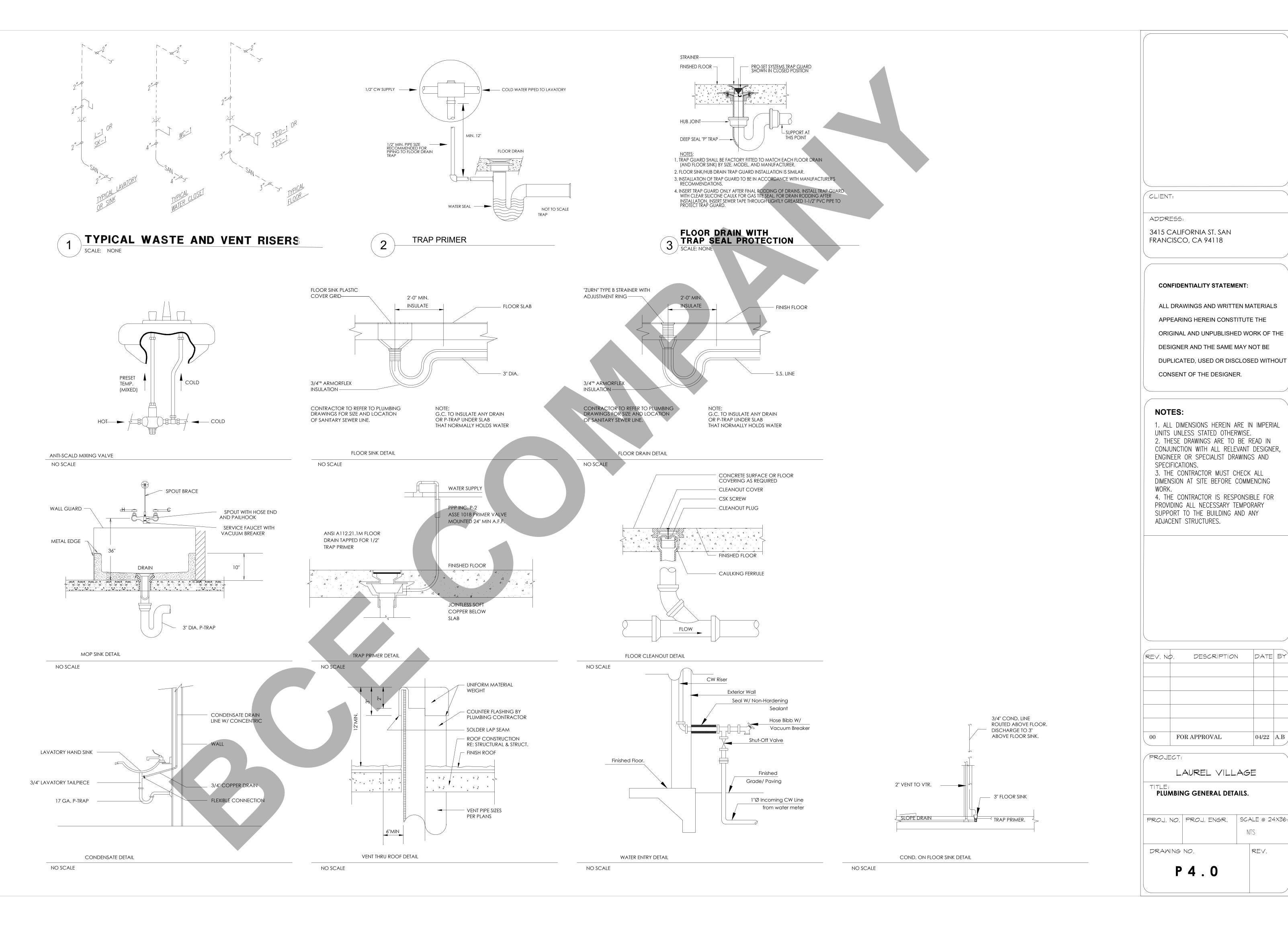
GAS LAYOUTS.

PROJ. NO. PROJ. ENGR. SCALE @ 24X36: 3/16"=1'-0"

DRAWING NO. REV.

P 3.0

ROOF



DESCRIPTION

SCALE @ 24X36:

REV.

Project Name: 3415 California St TI NRCC-PRF-01-E Page 1 of 17  Project Address: 3415 California St San Francisco 94118 Calculation Date/Time: 13:00, Fri, Mar 03, 2023	Project Name:3415 California St TINRCC-PRF-01-EPage 2 of 17Project Address:3415 California St San Francisco 94118Calculation Date/Time:13:00, Fri, Mar 03, 2023	Project Name: 3415 California St TI NRCC-PRF-01-E Page 3 of 17  Project Address: 3415 California St San Francisco 94118 Calculation Date/Time: 13:00, Fri, Mar 03, 2023
Input File Name: 2849_3415 California St, San Francisco, CA 94118_Energy	Input File Name: 2849_3415 California St, San Francisco, CA 94118_Energy	Input File Name: 2849_3415 California St, San Francisco, CA 94118_Energy
Analysis_V8_cibd19x  A. GENERAL INFORMATION	C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ²-yr)	Analysis_V8_cibd19x  C3. ENERGY USE SUMMARY
1 Project Location (city) San Francisco 8 Standards Version Compliance2019	COMPLIES	Standard Design Site Proposed Design Site Margin Standard Design Site Proposed Design Site Margin
2 CA Zip Code 94118 9 Compliance Software (version) EnergyPro 8.3	Energy Component Standard Design (TDV) Proposed Design (TDV) Compliance Margin (TDV) <sup>1</sup>	Component
3     Climate Zone     3     10     Weather File     OAKLAND_724930_CZ2010.epw       4     Total Conditioned Floor Area in Scope     1,773 ft²     11     Building Orientation (deg)     (N) 0 deg	Space Heating         33.98         45.00         -11.02	Space Cooling 2.9 2.3 0.6
5 Total Unconditioned Floor Area 0 ft <sup>2</sup> 12 Permitted Scope of Work ExistingAlteration	Space Cooling         55.82         47.49         8.33	Indoor Fans 7.8 5.4 2.4
6 Total # of Stories (Habitable Above Grade) 2 13 Building Type(s) Nonresidential	Indoor Fans         127.44         87.58         39.86           Heat Rejection	Heat Rejection
7 Total # of dwelling units 0 14 Gas Type NaturalGas	Pumps & Misc	Domestic Hot Water 0.9 1.1 -0.2 7.0 7.0
B. PROJECT SUMMARY	Domestic Hot Water         21.05         17.35         3.70	Indoor Lighting 5.1 7.6 -2.5>
Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.	Indoor Lighting         83.52         123.02         -39.50	Compliance Total         16.7         16.4         0.3         37.5         40.4         -2.9           Receptacle         5.0         5.0         0.0         0.5         0.5         0.0
Building Components Complying via Performance Building Components Complying Prescriptively	ENERGY STANDARDS COMPLIANCE TOTAL 321.81 320.44 1.37 (0.4%)	Receptacle         5.0         5.0         0.0         0.5         0.5         0.0           Process
Performance	<sup>1</sup> Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.	Other Ltg
nvelope (see Table G)    Covered Process: Commercial   Covered Process: Commercial   Not Included   Not Include	C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS <sup>1</sup>	Process Motors
on the NRCC-PRF-E).  □ Performance □ Performance Undoor Lighting (Unconditioned)§140.6 NRCC-LTI-E	☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2	TOTAL 21.7 21.4 0.3 38.0 40.9 -2.9
Mechanical (see Table H)  □ Not Included  Covered Process: Computer Rooms □ Not Included  □ Not Included  Not Included  Outdoor Lighting §140.7  NRCC-LTO-E	Miscellaneous Energy Component Standard Design (TDV) Proposed Design (TDV) Compliance Margin (TDV) <sup>1</sup> Receptacle 81.63 81.63	D. EXCEPTIONAL CONDITIONS
Domestic Hot Water (see Table I)  Performance  Covered Process: Laboratory Exhaust  Performance  Sign Lighting §140.8  NRCC -LTS-E	Process	This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control
Not Included	Other Ltg	requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.
escalator requirements are mandatory and should on the NRCC form	Process Motors	The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been
ble K)  NRCC-PRF-E.)	COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS  403.44  402.07  1.4 (0.3%)  1 Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.	modeled for both the proposed and standard cases.  The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.
□ Not Included Electrical Power Distribution S110.11 NRCC-ELC-E  Commissioning S120.9	. , 3	
ar Thermal Water Heating (see   Performance   Commissioning S120.8   NRCC-CXR-E   lel l)   Not Included   Solar Ready S110.10   NRCC-SRA-E		E. HERS VERIFICATION
		This Section Does Not Apply
Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2023-03-03 13:04:43	CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2023-03-03 13:04:43	CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2023-03-03 13:04:43
ject Name: 3415 California St TI NRCC-PRF-01-E Page 4 of 17	Project Name: 3415 California St TI NRCC-PRF-01-E Page 5 of 17	Project Name: 3415 California St TI NRCC-PRF-01-E Page 6 of 17
cject Address: 3415 California St San Francisco 94118 Calculation Date/Time: 13:00, Fri, Mar 03, 2023	Project Address: 3415 California St San Francisco 94118 Calculation Date/Time: 13:00, Fri, Mar 03, 2023	Project Address: 3415 California St San Francisco 94118 Calculation Date/Time: 13:00, Fri, Mar 03, 2023
ut File Name: 2849_3415 California St, San Francisco, CA 94118_Energy Analysis_V8cibd19x	Input File Name: 2849_3415 California St, San Francisco, CA 94118_Energy Analysis V8 .cibd19x	Input File Name: 2849_3415 California St, San Francisco, CA 94118_Energy Analysis V8 .cibd19x
ENVELOPE GENERAL INFORMATION (conditioned spaces only)	G3. OPAQUE SURFACE ASSEMBLY SUMMARY	G5. FENESTRATION ASSEMBLY SUMMARY
1 2 3 4	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9
Opaque Surfaces & Orientation Total Gross Surface Area (ft²) Total Fenestration Area (ft²) Window to Wall Ratio (%)	Surface Name  Surface Type  Surface Type  Surface Type  Area (ft²)  Area (ft²)  Framing Type  R-Value  Continuous R-Value  Units  Value  Description of Assembly Layers	Fenestration Assembly Name / Tag   Fenestration Type / Product Type / Certification Method   Assembly Method   Area ft <sup>2</sup>   Overall   Overall
North-Facing¹         147 ft²         98 ft²         67.0%           East-Facing²         878 ft²         0 ft²         00.0%	Asphalt shingles - 1/4 in.	VerticalFenestration VerticalFenestration
East-Facing²         878 ft²         0 ft²         00.0%           South-Facing³         299 ft²         42 ft²         14.0%	Vapor permeable felt - 1/8 in. Plywood - 1/2 in.	Single Metal Clear FixedWindow Default Performance SiteBuilt 43 1.19 0.83 0.77 E  MetalFraming
West-Facing <sup>4</sup> 726 ft <sup>2</sup> 8 ft <sup>2</sup> 01.1%	Default Roof 2013-Present20 Roof 1330 Wood 30 NA U-Factor 0.038 Air - Cavity - Wall Roof Ceiling - 4 in. E	VerticalFenestration Single Metal Clear FixedWindow Default Performance SiteBuilt 7 1.19 0.83 0.77 A
Total 2,049 ft <sup>2</sup> 148 ft <sup>2</sup> 07.2%	Wood framed roof, 24in, OC, 3.5in.,	Single Metal Clear_ FixedWindow Default Performance SiteBuilt 7 1.19 0.83 0.77 A MetalFraming
of 1,330 ft <sup>2</sup> 0 ft <sup>2</sup> 00.0%	Gypsum Board - 1/2 in.	1 Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
otes:  North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).	R-O Floor No Crawlspace 84 InteriorFloor 440 NA 0 NA 11-Factor 0.183 Air - Cavity - Wall Roof Ceiling - 4 in. or more F	<sup>2</sup> Status: N - New, A - Altered, E - Existing
ast-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE). outh-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).	R-0 Floor No Crawlspace_84 InteriorFloor 440 NA 0 NA U-Factor 0.183 Plywood - 1/2 in. Carpet - 3/4 in.	
Vest-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).		H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)
	Status: N - New, A – Altered, E – Existing	1 2 3 4 5 6 7 8 9 10 11 12
3. OPAQUE SURFACE ASSEMBLY SUMMARY	G4. OPAQUE DOOR SUMMARY	Heating Cooling
1 2 3 4 5 6 7 8 9 10	Assembly Name Overall U-factor Status <sup>1</sup>	Equipment Name Equipment Type Qty Total Heating Supp Heat Output Output Efficiency Efficiency Efficiency Light Efficiency Unit Efficiency Unit Efficiency Unit Efficiency Present)
Surface Name Surface Type Area (ft²) Framing Cavity Continuous Units Value Description of Assembly Layers	Metal Door74 0.700 A	Output Output Unit Efficiency Unit Efficiency Unit Output (kBtu/h) (kBtu/h)
Stucco - 7/8 in. Vapor permeable felt - 1/8 in.		(E) HVAC System 1 SZAC (Packaged3Phase) 1 30 0 AFUE 80.0 29 SEER/EER 14.00/11.00 NoEconomizer E
R-0 Wall Metal Stud + WS_10 ExteriorWall 2049 NA 0 NA U-Factor 0.407 Air - Cavity - Wall Roof Ceiling - 4 in. E or more	G5. FENESTRATION ASSEMBLY SUMMARY	(N) HVAC System SZAC (Packaged3Phase) 1 30 0 AFUE 80.0 29 SEER/EER 14.00/11.00 NoEconomizer N
Gypsum Board - 1/2 in.	1 2 3 4 5 6 7 8 9	L Status: N - New, A - Altered, E - Existing
Stucco - 7/8 in. Vapor permeable felt - 1/8 in.	Fenestration Assembly Name / Tag   Fenestration Type / Product Type / Certification Method   Assembly Method   Area ft²   Overall   Overall   Overall   U-factor   SHGC   VT   5	H2. FAN SYSTEMS SUMMARY
R-0 Wall Metal Stud + WS_101 InteriorWall 1781 NA 0 NA U-Factor 0.337 Air - Cavity - Wall Roof Ceiling - 4 in. E or more	VerticalFenestration	1 2 3 4 5 6 7 8 9 10 11 12 13 14 Design OA Supply Fan Return Fan νο
Gypsum Board - 1/2 in.	New Single Metal Clear Fixed Window Default Performance Site Built 49 1.19 0.83 0.77 N Metal Framing	Name or Item Tag Qty CEM CEM Modeling Method Royer Power Control CEM Modeling Method Royer Control E
Slab On Grade_18  UndergroundFloor 1333  NA  0  NA  F-Factor 0.73  Insulation Orientation = None E	VerticalFenestration  Door Single Metal Clear_ GlazedDoor Default Performance SiteBuilt 49 1.25 0.80 0.53 E	(E) HVAC System 1 1 193 885 BrakeHorsePower 0.510 bhp ConstantVolume NA NA NA NA NA E
Insulation R-Value = R0	Door Single Metal Clear Glazedboor Default Performance SiteBuilt 49 1.25 0.80 0.53 E MetalFraming	(E) HVAC System 1 1 193 885 BrakeHorsePower 0.510 bhp ConstantVolume NA
uilding Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2023-03-03 13:04:43	CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2023-03-03 13:04:43	CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2023-03-03 13:04:43
		<u>l</u>
ect Name: 3415 California St TI NRCC-PRF-01-E Page 7 of 17	Project Name: 3415 California St TI NRCC-PRF-01-E Page 8 of 17	Project Name: 3415 California St TI NRCC-PRF-01-E Page 9 of 17
ect Address: 3415 California St Nan Francisco 94118 Calculation Date/Time: 13:00, Fri, Mar 03, 2023	Project Address: 3415 California St San Francisco 94118 Calculation Date/Time: 13:00, Fri, Mar 03, 2023	Project Address: 3415 California St San Francisco 94118 Calculation Date/Time: 13:00, Fri, Mar 03, 2023
File Name: 2849_3415 California St, San Francisco, CA 94118_Energy Analysis V8 .cibd19x	Input File Name: 2849_3415 California St, San Francisco, CA 94118_Energy Analysis V8 .cibd19x	Input File Name: 2849_3415 California St, San Francisco, CA 94118_Energy Analysis V8 .cibd19x
Analysis_v8_clbd19x  AN SYSTEMS SUMMARY	H7. NONRESIDENTIAL VENTILATION	I1. WATER HEATER EQUIPMENT SUMMARY
1 2 3 4 5 6 7 8 9 10 11 12 13 14	1 2 3 4 5 6 7	1 2 3 4 5 6 7 8 9 10 11 12 13 14
Design OA Supply Fan Return Fan  Power Power	Mechanical Ventilation  Zone Name  DCV or Occupant Sensor	Heater Name Element Tank Type Qty (gal) Rated Input (gal) Rated In
The or item lag Cty CFM CFM Modeling Method Power Units Control CFM Modeling Method Power Units CFM Method Power Units	Zone Name  Ventilation Function  # of people   # of people   CFM   CFM	Name   Element   Tank Type   Qty   (gal)   Rated Input   Unit   Efficiency   Unit   R-value   Fraction   (gal)   Type   Condition
s: N - New, A - Altered, E - Existing	1-Lobby General - Corridors Retail - Sales 6.42 193 0 855 NA	A. O. SMITH Flortricity Instantaneous 1 20.00 979.0 kW 0.93 Three Eff NA NA NA NA NA NA NA
EXHAUST FAN SUMMARY	Exhaust - Toilets, private Misc - Warehouses Misc - All 2-1st Floor - Toilet others General - Corridors Misc - Transportation 9.12 185 100 918 NA	ENSB-302 Electricity illistantaneous I 50.00 679.0 kW 0.92 Hirmi. Eli. NA NA NA NA NA
1 2 3 4 5 6 7 8	waiting Office - Office space General - Unoccupied 9.12 165 100 918 INA	
System ID Zone Name Qty CFM Motor BHP Power Per Flow (W/cfm) Total Static Pressure (in. H <sub>2</sub> O)	H8. HIGH-RISE RESIDENTIAL DWELLING UNIT AND HOTEL/MOTEL VENTILATION	
1st Floor - Toilet35         2-1st Floor - Toilet         2         50         0.029         0.500         2.36         E	This Section Does Not Apply	K1. INDOOR CONDITIONED LIGHTING GENERAL INFO
is: N - New, A – Altered, E – Existing	H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY	1 2 3 4 5 6
Wet System Equipment(boilers,chillers,cooling towers,etc.)	1 2 3 4 5 6 7 8 9 10 11 12 13	Additional (Custom) Allowance  Lighting Control Credits  Additional (Custom) Allowance
Section Does Not Apply	Rated Capacity Airflow (cfm) Fan	Occupancy Type <sup>1</sup> Conditioned Floor Area <sup>2</sup> (ft <sup>2</sup> ) Installed Lighting Power (Watts) Lighting Control Credits (Watts) Area Category Footnotes (Watts) (Watts)
PUMPS	System ID Zone Name System Type Qty (KBtun)	Retail Sales Area (Retail
Section Does Not Apply	Heating Cooling Design Min. Min. Ratio Power Units Cycles VSD	Merchandise Sales)
SYSTEM SPECIAL FEATURES	1-Lobby-Trm 1-Lobby Uncontrolled 1 NA NA 885 NA 0.00 0.510 bhp NA	Restrooms         55         38         0         0         0           Commercial/Industrial Storage         200         140         0         0         0
1 2 3 4	2-1st Floor - Toilet-Trm 2-1st Floor - Toilet Uncontrolled 1 NA NA 730 NA 0.00 0.510 bhp NA	(Warehouse) 118 0 0
System Name Fruinment Type Window Interlocks per Other Special Features and Controls	H10. EVAPORATIVE COOLER SUMMARY	Healthcare Facility and         Hospitals (Exam/Treatment         115         160         0         0         0         0
System Name  Equipment Type  §140.4(n)  NA  Fixed Temperature Control	This Section Does Not Apply	Room) Concourse and Atria Area 73 107 0 0 0
s: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.	H11. HEAT RECOVERY SUMMARY	Lounge Breakroom or Waiting
	This Section Does Not Apply	Area 173 267 0 0 0

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CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

Electrical, Mechanical,

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Office Area (>250 square feet)

Building Totals:

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

214

1,897

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1,487

CLIENT:

ADDRESS:

3415 CALIFORNIA ST. SAN FRANCISCO, CA 94118

#### CONFIDENTIALITY STATEMENT:

ALL DRAWINGS AND WRITTEN MATERIALS

APPEARING HEREIN CONSTITUTE THE

ORIGINAL AND UNPUBLISHED WORK OF THE

DESIGNER AND THE SAME MAY NOT BE

DUPLICATED, USED OR DISCLOSED WITHOUT

CONSENT OF THE DESIGNER.

#### NOTES:

SPECIFICATIONS.

1. ALL DIMENSIONS HEREIN ARE IN IMPERIAL UNITS UNLESS STATED OTHERWISE.

2. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DESIGNER, ENGINEER OR SPECIALIST DRAWINGS AND

3. THE CONTRACTOR MUST CHECK ALL DIMENSION AT SITE BEFORE COMMENCING

4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY TEMPORARY SUPPORT TO THE BUILDING AND ANY ADJACENT STRUCTURES.

DATE BY REV. NO. DESCRIPTION FOR APPROVAL 12/22 A.B FOR APPROVAL

### PROJECT:

LAUREL VILLAGE

### T24-1

PROJ. NO. PROJ. ENGR. | SCALE @ 24X36: NTS DRAWING NO.

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K3. INDOOR CO	NDITIONED LIGHTING CONTROL C	REDITS						
	Lighting Control Credits Schedul	e (includes all lighting controls installe	ed in conditioned	space for compliance	e credit per §140.6	6(a)2 and Table 140.6	6-A)	
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Contro Credi (Watts
S-9-Server	Electrical, Mechanical, Telephone Rooms	NA	0.00 0.00 0.00 0.00 0.00	L2	39.4	2	39	0
S-10-Office	Office Area (>250 square feet)	NA	0.00 0.00 0.00 0.00 0.00	L1	213.6	4	214	0
S-11-NS Storage	Commercial/Industrial Storage (Warehouse)	NA	0.00 0.00 0.00 0.00 0.00	L2	39.4	2	39	0
S-12-Mezz - Toilet	All other	NA	0.00 0.00 0.00 0.00 0.00	L7	20.0	1	20	0

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K4. INDOOR CONDITION	ONED LIGHTING MANDATORY LIGHTING CONTROLS	•				
<b>Building Level Contro</b>	ls					
	1				2	
	Mandatory Demand Response §110.12(c)			Shut-Off Con	trols §130.1(c)	
	NA			N	IA	
Area Level Controls (i	ncludes all lighting controls installed in conditioned space to meet n	nandatory requireme	nts per §130.1)			
4	5	6	7	8	9	10
Area Description	on Area Category Primary Function Area	Area Controls 130.1(a)	Multi-Level Controls 130.1(b)	Shut-Off Controls 130.1(c)	Primary Daylighting 130.1(d)	Secondary Daylighting 140.5(d)
Lobby	Corridor Area	Required	Required	Required	NA	NA
Retail	Retail Sales Area (Retail Merchandise Sales)	Required	Required	Required	NA	NA
SCP Storage	Commercial/Industrial Storage (Warehouse)	Required	Required	Required	NA	NA
Intake	Main Entry Lobby	Required	Required	Required	NA	NA
Stair	Stairwell	Required	Exempt	Required	NA	NA
Hall	Concourse and Atria Area	Required	Required	Required	NA	NA
1st Floor Toile	t Restrooms	Required	Exempt	Required	NA	NA

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L. DECLARATION OF R	EQUIRED CERTIFICATES OF INSTALLATION				
compliance. These do	cuments bust be retained and provided to the bu	ilding ins <sub>l</sub>	pector during o	construction and can be	st be submitted for the features to be recognized for found online at:
compliance. These do		ilding ins <sub>l</sub>	pector during o	construction and can be	, ,
compliance. These do https://www.energy.c	cuments bust be retained and provided to the bu	ilding insp _documer	pector during o	construction and can be justial_Documents/NRCI/	, ,
compliance. These do https://www.energy.c Building Component	cuments bust be retained and provided to the bu a.gov/title24/2019standards/2019_compliance_	ilding insp _documer	pector during o	construction and can be justial_Documents/NRCI/	, ,
compliance. These do https://www.energy.c Building Component Envelope	cuments bust be retained and provided to the bua.gov/title24/2019standards/2019_compliance_ NRCI-ENV-01-E - Must be submitted for all buildings	ilding insp _documer s	pector during o	construction and can be justial_Documents/NRCI/	, ,

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CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

Lounge, Breakroom, or Waiting Area
Electrical, Mechanical, Telephone Rooms

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Required Exempt Required
Required Exempt Required

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CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

3415 California St Tl

Primary Function Area (must meet

Retail Sales Area (Retail

Retail Sales Area (Retail

Retail Sales Area (Retail

Merchandise Sales)

Merchandise Sales)

requirements of Table 140.6-A)

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

3415 California St San Francisco 94118

2849\_3415 California St, San Francisco, CA 94118\_Energy Analysis\_V8\_.cibd19x

Type of Lighting Control

NA

NA

NA

Project Name:

S-1-Lobby

S-2-Retail

S-2-Retail

S-2-Retail

S-3-1st Floor -Toilet Report Version: NRCC-PRF-01-E-12092021-68

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

Adjustment

Factor (PAF)

0.00 0.00 0.00

0.00 0.00 0.00 0.00

0.00 0.00 0.00 0.00 0.00

0.00 0.00 0.00

NRCC-PRF-01-E

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4 5 6 7

Luminaire Name Watts per

or Item Tag Luminaires

220.0

300.0

480.0

70.0

84.0

17.5

Project Name: 3415 California St TI NRCC-PRF-01-E Page 16 of 17 3415 California St San Francisco 94118 Calculation Date/Time: 13:00, Fri, Mar 03, 2023 2849\_3415 California St, San Francisco, CA 94118\_Energy Analysis\_V8\_.cibd19x M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019\_compliance\_documents/Nonresidential\_Documents/NRCA/ Building Component Form/Title Envelope NRCA-ENV-02-F - NRFC label verification for fenestration Indoor Lighting NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance

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2	See Table 140.6-C See NRCC-LTI-01-E for uncondition Slighting information for existing	oned spaces spaces modeled is not included in the table							

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

kz. INDOOR CONDITIONED	LIGHTING SCHEDOLE						
Luminaire Schedule (includes a space, and portable lighting ove	Il permanent installed lighting in conditioned er 0.3 w/ft <sup>2</sup> in offices)	Installed Watts (Conditioned)					
1	2	3	4	5	6		
Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined	Total Number Luminaires	Installed Watts		
L1	L1 - Surface Mounted 3" Deep Low	53	According to §130.0(c)	14	747		
L2	L2 - 4' Surface Mounted Led Strip	20	According to §130.0(c)	8	157		
L3	L3 - Existing LED Track Lighting	12	According to §130.0(c)	40	480		
L4	L4 - Led Track Head ELV Dimmable	14	According to §130.0(c)	6	84		
L5	L5 - Existing Recessed LED Downlight	20	According to §130.0(c)	26	520		
L6	L6 - 6" Recessed LED Dimmable	18	According to §130.0(c)	5	87		
L7	L7 - Existing Wall Sconce Fixture	20	According to §130.0(c)	3	60		
L8	L8- Chandelier LED Light	46	According to §130.0(c)	1	46		

K3. INDOOR CO	NDITIO	ONED LIGHTING CONTROL (	CRED	ITS						
	Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)									
1		2		3	4	5	6	7	8	9
Area Description		ary Function Area (must meet uirements of Table 140.6-A)		Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Contro Credit (Watts
S-1-Lobby		Corridor Area		NA	0.00	L8	46.0	1	46	0

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

Report Version: NRCC-PRF-01-E-12092021-6844

Report Generated at: 2023-03-03 13:04:43 CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

e Report Version: NRCC-PRF-01-E-12092021-6844

Report Generated at: 2023-03-03 13:04:43

Lighting Controlled

(Watts)

220

300

Control Credit

Project Name:	3415 California St TI	NRCC-	NRCC-PRF-01-E Page 12 of 17					
Project Address: 3415 California St San Francisco 94118			Calcul	ation Date/Time:	e: 13:00, Fri, Mar 03, 2023			
Input File Name:	t File Name:  2849_3415 California St, San Francisco, CA 94118_Energy Analysis_V8cibd19x							
K3. INDOOR CO	NDITIONED LIGHTING CONTROL C	REDITS	•					
	Lighting Control Credits Schedule	(includes all lighting controls installe	ed in conditioned s	space for complianc	e credit per §140.6	(a)2 and Table 140.6	6-A)	
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Contro Credi (Watt
			0.00 0.00					
S-3-1st Floor - Toilet	Restrooms	NA	0.00 0.00 0.00 0.00 0.00	L7	20.0	1	20	0
S-4-SCP Storage	Commercial/Industrial Storage (Warehouse)	NA	0.00 0.00 0.00 0.00 0.00	L2	78.8	4	79	0
S-5-Intake	Healthcare Facility and Hospitals (Exam/Treatment Room)	NA	0.00 0.00 0.00 0.00 0.00	LI	160.2	3	160	0
S-6-Stair	Stairwell	NA	0.00 0.00 0.00 0.00 0.00	L7	20.0	1	20	0
S-7-Lockers	Concourse and Atria Area	NA	0.00 0.00 0.00 0.00 0.00	Li	106.8	2	107	0
S-8-Hall	Lounge, Breakroom, or Waiting Area	NA	0.00 0.00 0.00 0.00 0.00	L1	267.0	5	267	0

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844

Project Name:	3415 California St TI		NRCC-PRF-01-E	Page 17 of 17		
Project Address:	3415 California St San Francisco 94118		Calculation Date/Time:	13:00, Fri, Mar 03, 2023		
Input File Name:	2849_3415 California St, San Francisco, CA 94118_Energy Analysis_V8cibd19x	/				
	AUTHOR'S DECLARATION STATEMENT ate of Compliance documentation is accurate and complete.					
Documentation Autho	r Name: Syed P. Alam	Signatur	re:Syed Alam			
Company: InnoDez, In	c.	Signatu	re:Syeu Alam			
Address: 726 Foxbroug	gh pl	Signatu	re Date: 2023-03-03			
City/State/Zip: Pleasar	nton CA 94566	CEA/ HE	RS Certification Identificat	ion (if applicable):		
Phone: 9168321752						
RESPONSIBLE PERSO	ON'S DECLARATION STATEMENT					
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)  3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.  4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.  5. I will ensure that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.						
<ul><li>4. The building design fe plans and specifications</li><li>5. I will ensure that a contract of the plans are the plans and specifications</li></ul>	eatures or system design features identified on this Certificate of Com submitted to the enforcement agency for approval with this building mpleted signed copy of this Certificate of Compliance shall be made a	permit application. available with the buildi	ng permit(s) issued for the bu	lding, and made available to the enforcement agency for all appli	ions,	
The building design fe plans and specifications     I will ensure that a coinspections. I understand	eatures or system design features identified on this Certificate of Com submitted to the enforcement agency for approval with this building mpleted signed copy of this Certificate of Compliance shall be made a	g permit application. available with the buildi equired to be included w	ng permit(s) issued for the buith the documentation the bu	lding, and made available to the enforcement agency for all appli	ions,	
The building design fe plans and specifications     I will ensure that a coinspections. I understand	eatures or system design features identified on this Certificate of Com submitted to the enforcement agency for approval with this building mpleted signed copy of this Certificate of Compliance shall be made a d that a completed signed copy of this Certificate of Compliance is re	g permit application. available with the buildi equired to be included w	ng permit(s) issued for the bu	lding, and made available to the enforcement agency for all appli	ions,	
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4. The building design fe plans and specifications 5. I will ensure that a coinspections. I understa	eatures or system design features identified on this Certificate of Com submitted to the enforcement agency for approval with this building mpleted signed copy of this Certificate of Compliance shall be made a d that a completed signed copy of this Certificate of Compliance is re	spermit application. available with the buildi equired to be included w Signatu  Date Sig  Title: P	ng permit(s) issued for the bu ith the documentation the bu re: Syed Alam gned: 2023-03-03	lding, and made available to the enforcement agency for all appli lder provides to the building owner at occupancy.	ions,	
4. The building design fe plans and specifications 5. I will ensure that a coinspections. I understanders and the specifications of the specification of the	eatures or system design features identified on this Certificate of Comsubmitted to the enforcement agency for approval with this building mpleted signed copy of this Certificate of Compliance shall be made and that a completed signed copy of this Certificate of Compliance is respectively. Designer Name: Syed P. Alam  The property of the Please of the property of the Please of Please	spermit application. available with the buildinguired to be included with the buildinguired buildi	ng permit(s) issued for the bu ith the documentation the bu re: Syed Alam gned: 2023-03-03	lding, and made available to the enforcement agency for all appli lder provides to the building owner at occupancy.	ions,	
4. The building design fe plans and specifications 5. I will ensure that a coinspections. I understanderstanders and the specific forms of the specific fo	eatures or system design features identified on this Certificate of Com submitted to the enforcement agency for approval with this building mpleted signed copy of this Certificate of Compliance shall be made a d that a completed signed copy of this Certificate of Compliance is repeated. Designer Name: Syed P. Alam  The property of the Certificate of Compliance is repeated by the complete of the complete of the complete of the certificate of Compliance is repeated by the complete of the certificate of Compliance is repeated by the certificate of Compliance	permit application. available with the buildi equired to be included w Signatu  Date Sig  Title: P	ng permit(s) issued for the bu ith the documentation the bu re: Syed Alam gned: 2023-03-03	lding, and made available to the enforcement agency for all appli lder provides to the building owner at occupancy.	ions,	
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4. The building design fe plans and specifications 5. I will ensure that a cor inspections. I understanders	eatures or system design features identified on this Certificate of Comsubmitted to the enforcement agency for approval with this building impleted signed copy of this Certificate of Compliance shall be made and that a completed signed copy of this Certificate of Compliance is responsible. Designer Name: Syed P. Alam  The property of the property o	permit application. available with the buildi equired to be included w  Signatu  Date Sig  Title: P  Signatu  Date Sig  Title: PI	re: Syed Alam gned: 2023-03-03  E ENGINEER re:Gregory Dillett gned: 2023-03-03	Iding, and made available to the enforcement agency for all appli Ider provides to the building owner at occupancy.  License #: 27087	ions,	
4. The building design feplans and specifications 5. I will ensure that a coninspections. I understand Responsible Envelope Company: Innodez Address: 726 Foxbroug City/State/Zip: Pleasar Phone: 916-813-1752 Responsible Lighting D Company: Innodez Address: 22 Chatel driv City/State/Zip: Little R Phone: 479-313-2632	eatures or system design features identified on this Certificate of Comsubmitted to the enforcement agency for approval with this building mpleted signed copy of this Certificate of Compliance shall be made at that a completed signed copy of this Certificate of Compliance is respectively. Designer Name: Syed P. Alam  The property of the Certificate of Compliance is respectively. The property of the Certificate of Certifica	permit application. available with the buildi equired to be included w  Signatu  Date Sig  Title: P  Signatu  Date Sig  Title: PI	re: Syed Alam gned: 2023-03-03  E ENGINEER re:Gregory Dillett gned: 2023-03-03	Iding, and made available to the enforcement agency for all appli Ider provides to the building owner at occupancy.  License #: 27087	ions,	
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4. The building design fe plans and specifications 5. I will ensure that a coinspections. I understand Responsible Envelope Company: Innodez Address: 726 Foxbroug City/State/Zip: Pleasar Phone: 916-813-1752 Responsible Lighting D Company: Innodez Address: 22 Chatel driv City/State/Zip: Little Rephone: 479-313-2632 Responsible Mechanic Company: Innodez	eatures or system design features identified on this Certificate of Com submitted to the enforcement agency for approval with this building mpleted signed copy of this Certificate of Compliance shall be made a d that a completed signed copy of this Certificate of Compliance is repetitive. Designer Name: Syed P. Alam  The property of this Certificate of Compliance is repetitive. Designer Name: Gregory Michael Dillett  The property of this Certificate of Compliance is repetitive. Designer Name: Gregory Michael Dillett  The property of this Certificate of Compliance is repetitive. Designer Name: Gregory Michael Dillett  The property of this Certificate of Compliance is repetitive. Designer Name: Gregory Michael Dillett  The property of this Certificate of Compliance is repetitive. Designer Name: Syed P. Alam  The property of this Certificate of Compliance is repetitive. Designer Name: Gregory Michael Dillett  The property of this Certificate of Compliance is repetitive. Designer Name: Syed P. Alam  The property of this Certificate of Compliance is repetitive. Designer Name: Gregory Michael Dillett  The property of this Certificate of Compliance is repetitive. Designer Name: Gregory Michael Dillett  The property of this Certificate of Compliance is repetitive. Designer Name: Gregory Michael Dillett  The property of this Certificate of Compliance is repetitive. Designer Name: Gregory Michael Dillett  The property of this Certificate of Compliance is repetitive. Designer Name: Gregory Michael Dillett  The property of this Certificate of Compliance is repetitive. Designer Name: Gregory Michael Dillett  The property of this Certificate of Compliance is repetitive. Designer Name: Gregory Michael Dillett  The property of this Certificate of Compliance is repetitive. Designer Name: Gregory Michael Dillett  The property of this Certificate of Compliance is repetitive. Designer Name: Gregory Michael Dillett  The property of this Certificate of Compliance is repetitive. Designer Name: Gregory Michael Dillett  The property of	permit application. available with the buildi equired to be included w  Signatu  Date Sig  Title: P  Signatu  Signatu  Signatu  Signatu  Signatu  Signatu	re: Syed Alam gned: 2023-03-03  E ENGINEER re:Gregory Dillett gned: 2023-03-03  E ENGINEER	Iding, and made available to the enforcement agency for all appli Ider provides to the building owner at occupancy.  License #: 27087	ions,	

	ALL DRAWINGS AND WRITTEN MATERIALS
.6844 Report Generated at: 2023-03-03 13:04:43	APPEARING HEREIN CONSTITUTE THE
6844 Report Generated at: 2023-03-03 13:04:43	ORIGINAL AND UNPUBLISHED WORK OF THE
	DESIGNER AND THE SAME MAY NOT BE
Page 11 of 17	BESIGNER/RID THE O/RIVE W// THOT BE

DUPLICATED, USED OR DISCLOSED WITHOUT
CONSENT OF THE DESIGNER.

#### NOTE

CLIENT:

ADDRESS:

3415 CALIFORNIA ST. SAN FRANCISCO, CA 94118

CONFIDENTIALITY STATEMENT:

UNITS UNLESS STATED OTHERWISE.
2. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DESIGNER, ENGINEER OR SPECIALIST DRAWINGS AND SPECIFICATIONS.
3. THE CONTRACTOR MUST CHECK ALL DIMENSION AT SITE BEFORE COMMENCING WORK.
4. THE CONTRACTOR IS RESPONSIBLE FOR

PROVIDING ALL NECESSARY TEMPORARY SUPPORT TO THE BUILDING AND ANY

ADJACENT STRUCTURES.

1. ALL DIMENSIONS HEREIN ARE IN IMPERIAL

O1 FOR APPROVAL 02/23 A.B

O0 FOR APPROVAL 12/22 A.B

### PROJECT:

LAUREL VILLAGE

TO 4 O

### T24-2

PROJ. NO. PROJ. ENGR. SCALE @ 24X36:

NTS

DRAWING NO. REV.

T O 4

STATE OF CALIFORNIA  Nonresidential Building Commissioning  NRCC-CXR-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  This document is used to demonstrate compliance with mandatory commissioning requirements in §120.8 for nonresidential buildings and hotel/motel or mixed-use buildings with	STATE OF CALIFORNIA  Nonresidential Building Commissioning  NRCC-CXR-E  CERTIFICATE OF COMPLIANCE  Project Name:  3415 California St TI Report Page:  (Page 2 of 6)	STATE OF CALIFORNIA  Nonresidential Building Commissioning  NRCC-CXR-E  CERTIFICATE OF COMPLIANCE  Project Name:  CHIFORNIA ENERGY COMMISSION  CRITIFICATE OF COMPLIANCE  Project Name:  (Page 3 of 6)
nonresidential spaces. This document does not demonstrate compliance with commissioning requirements within Title 24, Part 11, which need to be documented separately if they apply.	Project Address: 3415 California St   Date Prepared: 3/3/2023	Project Address: 3415 California St Date Prepared: 3/3/2023
Project Name:3415 California St TIReport Page:(Page 1 of 6)Project Address:3415 California StDate Prepared:3/3/2023	C. COMPLIANCE RESULTS	F. DESIGN REVIEW KICKOFF MEETING
A. GENERAL INFORMATION	Table C will indicate if the project data input into the compliance document is compliant with commissioning requirements per §120.8. This table is not editable by the user. If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.  01 02 03 04 05 06 07 08 09	This table indicates that the design reviewer meets the qualification requirements per Title 24, Part 1 Section 10-103(a)1 and demonstrates compliance with design review kickoff requirements per §120.8(d)2. This meeting should occur during the Schematic Design phase of the project.  Design Review Kickoff Meeting Details
01     Project Location (city)     San Francisco     04     Building Size (ft²)     1773       02     Occupancy Type     Healthcare Facility     05     Nonresidential Conditioned Floor Area (ft²)     < 10,000 ft²	Design Kickoff Review Owner's Project Basis of Design Design Review Commissioning Performance Documentation Commissioning	01 Date of Design Review Kickoff Meeting 0001-01-01
Newly constructed	Table F Table G Table H Table I Table J Table K Table L Table M Compliance Results	02 Meeting Attendees: (one person may play multiple roles)  □ Owner/Facility Manager: □ Design Reviewer(s)
B. PROJECT SCOPE	Yes Yes COMPLIES  10 Design Reviewer(s) for the project include: COMPLIES	□ Project Manager:       □ Design Architect/ Engineer(s):         □ Contractor:       □ Certified Acceptance Test Tech(s):
Based on project information provided in Table A, Table B indicates which commissioning related requirements apply per §120.8. Table B is not editable by the user.  Commissioning Requirements per §120.8	D. EXCEPTIONAL CONDITIONS	□ Commissioning Provider:       □ Energy/ T24 Part 6 Consultant:         Design Reviewer Qualifications per Title 24 Part 1 Section 10-103(a)1
Table F: Design Review Kickoff  S120.8(d)1 and identify owner's requirements. This meeting should be conducted during schematic design.  Table G: Owner's Project  Table G: Owner's Project	This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	The design reviewer(s) must be licensed professional engineers or licensed architects, or licensed contractors representing services performed by or under the direct supervision of a licensed engineer or architect, as specified in the provisions of Division 3 of the Business and Professions Code.  In addition, for buildings with >= 10,000 ft² but < 50,000² the design reviewer(s) shall be a qualified in-house engineer or architect with no other.  Yes  No
02 Requirements (OPR) \$120.8(b) This requirement does not apply.  03 Table H: Basis of Design (BOD) \$120.8(c) This requirement does not apply.	E. ADDITIONAL REMARKS  This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	In addition, for buildings with >= 10,000 ft² but < 50,000², the design reviewer(s) shall be a qualified in-house engineer or architect with no other project involvement or a third party engineer, architect, or contractor  O4 The design reviewer(s) for this project will be:
The design reviewer(s) reviews the construction documents for clarity, completeness, and adherence to the owner's goals. Commissioning measures must be included in the construction documents to facilitate the design review and		Preliminary Construction Schedule  Start Date  Completion Date
sizo.8(e) sizo.8		05   Schematic Design         0001-01-01         0001-01-01           06   Design Development         0001-01-01         0001-01-01
during design.  O5 Table J: Commissioning Plan §120.8(f) This requirement does not apply.		07 Construction Documents 0001-01-01 0001-01-01 0001-01-01 0001-01-01
Table K: Functional Performance Testing  This requirement does not apply.  This requirement does not apply.		09 Building Turnover 0001-01-01 0001-01-01  Project Goals Related to Energy Efficiency
08 Table M: Commissioning Report §120.8(i) This requirement does not apply.		10 Operational Costs  11 Desired Building Lifespan
		12 Equipment Lifecycle  13 Project Energy Efficiency Goals
		14 Envelope Goals
Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:11 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:11 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:11 Schema Version: rev 20200601
STATE OF CALIFORNIA  Nonresidential Building Commissioning	STATE OF CALIFORNIA Nonresidential Building Commissioning	STATE OF CALIFORNIA Nonresidential Building Commissioning
NRCC-CXR-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-CXR-E	NRCC-CXR-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-CXR-E	NRCC-CXR-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-CXR-E
Project Name: 3415 California St Tl Report Page: (Page 4 of 6) Project Address: 3415 California St Date Prepared: 3/3/2023	Project Name: 3415 California St Tl Report Page: (Page 5 of 6) Project Address: 3415 California St Date Prepared: 3/3/2023	Project Name: 3415 California St TI Report Page: (Page 6 of 6) Project Address: 3415 California St Date Prepared: 3/3/2023
F. DESIGN REVIEW KICKOFF MEETING	M. COMMISSIONING REPORT	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
15 HVAC System Goals	This section does not apply to this project.	I certify that this Certificate of Compliance documentation is accurate and complete.
16 Indoor Lighting System Goals 17 Outdoor Lighting System Goals	N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION  There are no Certificates of Installation applicable to commissioning requirements.	Documentation Author Name: Syed P. Alam Company: Signature Date:
18 Water Heating System Goals  19 Equipment and System Specifications  20 Operations and Maintenance	O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	InnoDez, Inc. 2023-03-03  Address: CEA/ HERS Certification (if applicable): CEA/ HERS Certification (if applicable):
Operations and Maintenance  G. OWNER'S PROJECT REQUIREMENTS (OPR)	Although there are no "CXR" Certificates of Acceptance required to document commissioning requirements, Certificates of Acceptance may be used to supplement functional performance testing required by §120.8(g).	726 Foxorough pi   City/State/Zip:
This section does not apply to this project.		RESPONSIBLE PERSON'S DECLARATION STATEMENT  I certify the following under penalty of perjury, under the laws of the State of California:
H. BASIS OF DESIGN (BOD)  This section does not apply to this project.		<ol> <li>The information provided on this Certificate of Compliance is true and correct.</li> <li>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)</li> <li>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</li> </ol>
I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST		of Title 24, Part 1 and Part 6 of the California Code of Regulations.  4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
This table is only completed if a design review document is not attached to permit application to demonstrate compliance with $\frac{§120.8(b)}{2}$ and $\frac{§120.8(e)}{2}$ . For buildings with >= 10,000 ft <sup>2</sup> conditioned floor area, the design review will ensure the construction documents meet the Owner's Project Requirements (Table G.) and the Basis of Design Documents (Table H.). For		5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.  Responsible Designer Signature:
buildings with < 10,000 ft <sup>2</sup> conditioned floor area, the design review will ensure the construction documents meet the goals documented in Table F. during the Design Review Kickoff.  YES  NO		Syed P. Alam  Company:  Date Signed:
01 Attaching Completed Design Review Documentation?		Innodez         2023-03-03           Address:         License:           726 Foxbrough PI         27087
J. COMMISSIONING PLAN This section does not apply to this project.		City/State/Zip:
K. FUNCTIONAL PERFORMANCE TESTING		
This section does not apply to this project.		
L. DOCUMENTATION AND TRAINING  This section does not apply to this project.		
Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:11 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance  Report Version: 2019.1.003  Schema Version: rev 20200661	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:11 Schema Version: rev 20200601
STATE OF CALIFORNIA	STATE OF CALIFORNIA	STATE OF CALIFORNIA
Electrical Power Distribution NRCC-ELC-E CALIFORNIA ENERGY COMMISSION	Electrical Power Distribution  NRCC-ELC-E  CALIFORNIA ENERGY COMMISSION	Electrical Power Distribution  NRCC-ELC-E  CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE  This document is used to demonstrate compliance with mandatory requirements in §130.5, for electrical systems in newly constructed nonresidential, high-rise residential and	CERTIFICATE OF COMPLIANCE Project Name:  3415 California St TI Report Page: (Page 2 of 4)	CERTIFICATE OF COMPLIANCE  Project Name:  3415 California St TI Report Page:  (Page 3 of 4)
hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per \$141.0(a) or \$141.0(b)2P for alterations  Project Name: 3415 California St TI Report Page: (Page 1 of 4)	Project Address: 3415 California St Date Prepared: 3/3/2023	Project Address: 3415 California St Date Prepared: 3/3/2023
Project Address: 3415 California St Date Prepared: 3/3/2023	D. EXCEPTIONAL CONDITIONS  This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION  Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E.
A. GENERAL INFORMATION  01 Project Location (city) San Francisco	E. ADDITIONAL REMARKS	Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/
02 Occupancy Types Within Project:  • Healthcare Facility • Office • Retail • Support Areas • Warehouse • : See Table I	This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.	Form/Title Field Inspector Pass Fail
B. PROJECT SCOPE	F. SERVICE ELECTRICAL METERING  This section does not apply to this project.	NRCI-ELC-01-E - Must be submitted for all buildings
This table includes electrical systems that are within the scope of the permit application.	G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING	There are no Certificates of Acceptance applicable to electrical power distribution requirements.
01 02 03 04 05  Electrical Service Designation/Description Scope of Work <sup>1</sup> Rating Utility Provided Metering System Syste	This section does not apply to this project.	
Article 317 Exception to \$130.5(a) 2  Article 317 Exception to \$130.5(a) 2  Article 317 Exception to \$130.5(a) and (b)	H. VOLTAGE DROP  This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 6130 5(c). For alterations, only the altered circuits must demonstrate compliance per 6141 0(b) 2Piii	
Only  Where required, demand response controls must be specified which are capable of receiving and automatically	demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2Piii  01 02 03 04 05 Sheet Number for Voltage Drop Field Inspector	
Demand Response Controls responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.	Electrical Service Designation/Description Circuit Conductors Compliance Method Circuit Conductors Compliance Method Circuit Conductors Compliance Method Circuit Conductors Compliance Method Calculations Sheet Number for Voltage Drop Calculations in Construction Documents Field Inspector  Calculations Documents Field Inspector  Calculations in Construction Documents Fail	
Indicate when demand response controls are required.    FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.    Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.	Voltage drop less than Permitted by CA Elec Code (Exception to Attached	
C. COMPLIANCE RESULTS	* NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.	
Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.	<sup>1</sup> FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".	
01 02 03 04 05  Service Electrical AND Separation for AND Voltage Drop §130.5(c) AND Controlled Receptacles	I.CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES  This section does not apply to this project.	
Metering §130.5(a) (See Table F)  Yes AND Yes AND Yes AND Yes AND Yes COMPLIES		
Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance  Registration Date/ Time:  Registration Date/ Time:  Registration Date/ Time:  Registration Provider: Energysoft  Report Version: 2019.1.003  Schema Version: rev 20200601	Registration Number: Registration Date/Time: Registration Provider: Energysoft  CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:12  Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance  Registration Date/Time:  Registration Date/Time:  Registration Provider: Energysoft  Report Version: 2019.1.003  Schema Version: rev 20200601  Registration Provider: Energysoft  Registration Provider: Energysoft  Registration Provider: Energysoft  Registration Provider: Energysoft  Registration Date/Time:  Registration Date/Time:  Registration Provider: Energysoft  Registration Provider: Energysoft  Registration Provider: Energysoft  Registration Date/Time:  Registration Date/Time:  Registration Provider: Energysoft  Registration Provider: Energysoft  Registration Provider: Energysoft  Registration Date/Time:  Registration Date/Time:  Registration Date/Time:  Registration Provider: Energysoft  Registration Provider: Energysoft  Registration Date/Time:  Registration Date/Time:  Registration Date/Time:  Registration Provider: Energysoft  Registration Provider: Energysoft  Registration Date/Time:  Registration Date/Time:  Registration Date/Time:  Registration Date/Time:  Registration Date/Time:  Registration Provider: Energysoft  Registration Provider: Energysoft  Registration Date/Time:  Registration Date/T

CLIENT:

ADDRESS:

3415 CALIFORNIA ST. SAN FRANCISCO, CA 94118

#### CONFIDENTIALITY STATEMENT:

ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE

DESIGNER AND THE SAME MAY NOT BE

DUPLICATED, USED OR DISCLOSED WITHOUT CONSENT OF THE DESIGNER.

#### NOTES:

1. ALL DIMENSIONS HEREIN ARE IN IMPERIAL UNITS UNLESS STATED OTHERWISE. 2. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DESIGNER, ENGINEER OR SPECIALIST DRAWINGS AND SPECIFICATIONS.

3. THE CONTRACTOR MUST CHECK ALL DIMENSION AT SITE BEFORE COMMENCING

4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY TEMPORARY SUPPORT TO THE BUILDING AND ANY ADJACENT STRUCTURES.

REV. NO	D. DESCRIPTION	DATE	ď
01	FOR APPROVAL	02/23	A.B
00	FOR APPROVAL	12/22	A.B

### PROJECT:

LAUREL VILLAGE

### T24-3

PROJ. NO. PROJ. ENGR. SCALE @ 24X36: NTS DRAWING NO. T 2 4 - 3

STATE OF CALIFORNIA  Electrical Power Distribution		STATE OF CALIFORNIA  Indoor Lighting	STATE OF CALIFORNIA Indoor Lighting
NRCC-ELC-E  CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-ELC-E	NRCC-LTI-E CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE NRCC-LTI-E	NRCC-LTI-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-LTI-E
	5 California St TI Report Page: (Page 4 of 4) 415 California St Date Prepared: 3/3/2023	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.	Project Name:         3415 California St TI         Report Page:         (Page 2 of 7)           Project Address:         3415 California St Date Prepared:         3/3/2023
		Project Name:     3415 California St Tl     Report Page:     (Page 1 of 7)       Project Address:     3415 California St Date Prepared:     3/3/2023	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT  I certify that this Certificate of Compliance documentation is accura	ate and complete.	A. GENERAL INFORMATION	C. COMPLIANCE RESULTS  If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.
Documentation Author Name: Syed P. Alam	Documentation Author Signature: Sved Alam	01 Project Location (city) San Francisco 04 Total Conditioned Floor Area (ft²) 0	Allowed Lighting Power per §140.6(b) (Watts)  Adjusted Lighting Power per §140.6(a) (Watts)  Compliance Results
Company: InnoDez, Inc.	Signature Date: 2023-03-03	02 Climate Zone 3 05 Total Unconditioned Floor Area (ft²) 0 03 Occupancy Types Within Project (select all that apply): 06 # of Stories (Habitable Above Grade) 2	Lighting in conditioned and conditioned
Address:	CEA/ HERS Certification Identification (if applicable):	Occupancy Types Within Project (select all that apply):      Healthcare Facility       Office       Retail       Support Areas       Warehouse       : See Table I	unconditioned spaces must not be complete Building Category Additional Category Additional S140.6(c)3 = Total Designed Control Credits = (Watts)    Total PAF Lighting Designed Control Credits = (Watts)    Total Designed Control Credits = (Wat
726 Foxbrough pl City/State/Zip:	Phone:		compliance per 5140.6(c)1 5140.6(c)2 5140.6(c)2 (+) Allowed (Watts) \$140.6(a)2 *Includes \$140.6(a)2
Pleasanton CA 94566 RESPONSIBLE PERSON'S DECLARATION STATEMENT	9168321752	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 or	Saturation (See Table I) (See Table II) (See Table II) (See Table II) (See Table III) (See Table IIII) (See Table IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
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.		\$141.0(b)2 for alterations.  Scope of Work  Conditioned Spaces  Unconditioned Spaces	Conditioned
3. The energy features and performance specifications, materials, components, and m	onsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements	01 02 03 04 05	Controls Compliance (See Table H for Details) COMPLIES
of Title 24, Part 1 and Part 6 of the California Code of Regulations.  4. The building design features or system design features identified on this Certificate plans and specifications submitted to the enforcement agency for approval with this	e of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, his building permit application.	My Project Consists of (check all that apply): Calculation Method Area (ft²) Calculation Method Area (ft²)  □ New Lighting System	Rated Power Reduction Compliance (See Table Q for Details)
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be	e made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable liance is required to be included with the documentation the builder provides to the building owner at occupancy.	□ New Lighting System - Parking Garage	D. EXCEPTIONAL CONDITIONS  This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
tesponsible Designer Name: Gregory Michael Dillett	Responsible Designer Signature: Gregory Dillett	Altered Lighting System  Area Category Method  Total Area of Work (ft²)  O  Area Category Method  O  O	
Company: Innodez	Date Signed: 2023-03-03		E. ADDITIONAL REMARKS  This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.
Address: 22 Chatel drive	License: 21635		F. INDOOR LIGHTING FIXTURE SCHEDULE
ity/State/Zip: ittle Rock AR 72223	Phone: 479-313-2632		This section does not apply to this project.
THE NOW AN 12223	473-313-2032		G. MODULAR LIGHTING SYSTEMS
			This section does not apply to this project.
ateliation No. 1.	Designation D. L. The		
egistration Number:	Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft
A Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:12 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:14 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:14 Schema Version: rev 20200601
ate of california		STATE OF CALIFORNIA  Indoor Lighting	STATE OF CALIFORNIA  Indoor Lighting
ndoor Lighting	CALIFORNIA ENERGY COMMISSION	Indoor Lighting  NRCC-LTI-E  CALIFORNIA ENERGY COMMISSION	Indoor Lighting  NRCC-LITI-E  CALIFORNIA ENERGY COMMISSION
RTIFICATE OF COMPLIANCE oject Name: 34	NRCC-LTI-E 415 California St TI Report Page: (Page 3 of 7)	CERTIFICATE OF COMPLIANCE  Project Name:  3415 California St TI Report Page:  (Page 4 of 7)	CERTIFICATE OF COMPLIANCE Project Name: 3415 California St Ti Report Page: (Page 5 of 7)
	3415 California St Date Prepared: 3/3/2023	Project Address: 3415 California St Date Prepared: 3/3/2023	Project Address: 3415 California St Date Prepared: 3/3/2023
INDOOR LIGHTING CONTROLS (Not including PAFs)		H. INDOOR LIGHTING CONTROLS (Not including PAFs)	K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
s table includes lighting controls for conditioned and unconditioned space	es. When a control having a * is shown, the notes section of this table provides more detail on how	Server Electrical Mechancial Manual Evernet* Occupancy Server N/A N/A N/A N/A N/A	This section does not apply to this project.
ipliance is achieved. The lighting controls section of the Compliance Sumi ding Level Controls	mary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.	lelephone Room ON/OFF Manual	L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
01	02 03	Manual Manual	This section does not apply to this project.
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c) Field Inspector  Pass Fail	NS Storage Warehouse ON/OFF Exempt* Occupancy Sensor N/A N/A NO 🗆	M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
Not Required <= 10,000 SF Level Controls	See Area/Space Level Controls	Mezz. Toilet Restrooms Manual ON/OFF Exempt* Occupancy Sensor N/A N/A No 🗆 🗆	This section does not apply to this project.
04 05 06	07 08 09 10 11 12	*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.  EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1	N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
Complete Building or Area	Multi-Level State Off Controls Primary/Sky Secondary Interlocked Sield Incontrol	to <u>§130.1(d)2</u>	This section does not apply to this project.
Area Description Complete Building or Area Cont Sates Category Primary Function S130.1(a)	a) S130.1(b) Snut-Off Controls   It   Daylighting   Systems   S140.6(d)   S140	Stair Connected load < 0.5W/SQ.FT	O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
Area	\$130.1(b) \$130.1(c) \$140.6(d) \$140.6(a)1 Pass Fail	1st Floor Toilet Restroom	This section does not apply to this project.
Lobby Corridor Area Manua ON/OFI	I DIMMER I DECUDANCY SENSOR I NI/A I NI/A I NO I II I I I I	Lockers Less than 100 Sqft	P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
Potail Potail Morchandico Salos Manua	Dimmor Occupancy Sonsor N/A N/A No □		This section does not apply to this project.
Manua		Server Less than 100 Sqft	Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS  This section does not apply to this project.
SCP Storage Warehouse ON/OFI  Manua  Manua  Manua  Manua		NS Storage Connected load < 0.5W/SQ.FT	This section does not apply to this project.
ON/OFF	F Dimmer Occupancy sensor N/A N/A NO LI	Mezz. Toilet Restroom	R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS  This section does not apply to this project.
Stair Stairwell Manua ON/OFI	I Exempt <sup>*</sup> I Occupancy Sensor I N/A I N/A I NO I II I I I I		
Hall Concourse and Atria Manua ON/OFI		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	S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)  This section does not apply to this project.
1st Floor Toilet Restrooms Manua ON/OFI		<u>§140.6(c)</u> or adjustments per <u>§140.6(a)</u> are being used .	
Lockers Lounge Breakroom or Waiting Manua	BY STATE OCCUPANCY SORGE N/A N/A NO D	J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM	
Area ON/OF	F Statisfies Constraint, Const	This section does not apply to this project.	
stration Number:	Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft
uilding Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:14 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:14 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:14 Schema Version: rev 20200601
			<u>J</u>
california or Lighting		STATE OF CALIFORNIA Indoor Lighting	STATE OF CALIFORNIA  Outdoor Lighting
I-E CATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION  NRCC-LTI-E	NRCC-LTI-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-LTI-E	NRCC-LTO-E CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-LTO-E
Name: 34	415 California St TI Report Page: (Page 6 of 7)	Project Name:   3415 California St TI   Report Page:   (Page 7 of 7)	Project Name: 3415 California St TI Report Page: (Page 1 of 6)
Address:	3415 California St Date Prepared: 3/3/2023	Project Address: 3415 California St Date Prepared: 3/3/2023	Project Address:   3415 California St   Date Prepared:   3/3/2023
CLARATION OF REQUIRED CERTIFICATES OF INSTALLATION		DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	A. GENERAL INFORMATION  Of President Location (eign)  Son Francisco
ions have been made based on information provided in this document. onal Remarks. These documents must be provided to the building inspe	t. If any selection have been changed by permit applicant, an explanation should be included in Table E. sector during construction and can be found online at	I certify that this Certificate of Compliance documentation is accurate and complete.	01     Project Location (city)     San Francisco       02     Climate Zone     3   Total Illuminated Hardscape Area (ft²)
//www.energy.ca.gov/title24/2019standards/2019_compliance_docur	ments/Nonresidential_Documents/NRCI/	Documentation Author Name: Syed P. Alam Super Alam Signature: Syed Alam Signature: Syed Alam	O3 Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):
Form/Ti	Field Inspector Pass Fail	Company: InnoDez, Inc. Signature Date: 2023-03-03	□       LZ-0: Very Low - Undeveloped Parkland       □       LZ-2: Moderate - Rural Areas       □       LZ-4: High - Must be reviewed by CA Energy Commission for Approval         □       LZ-1: Low - Developed Parkland       □       LZ-3: Moderately High - Urban Areas
TI-01-E - Must be submitted for all buildings		Address: CEA/ HERS Certification (if applicable): 726 Foxbrough pl	B. PROJECT SCOPE
CLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE		City/State/Zip: Pleasanton CA 94566  Phone: 9168321752	This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or
are no NRCA forms required for this project.		RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:	<u>\$141.0(b)2L</u> for alterations.  My Project Consists of:
		<ol> <li>The information provided on this Certificate of Compliance is true and correct.</li> <li>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)</li> </ol>	01 02
		3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.	□ New Lighting System       Must Comply with Allowances from §140.7         □ Altered Lighting System       Is your alteration increasing the connected lighting load (Watts)?       Yes       No
		4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	03 04 05
		5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.	% of Existing Luminaires Being Altered¹ Sum Total of Luminaires Being Added or Altered Calculation Method  ☐ <10% ☐ >= 10% and <50% ☐ >= 50% ☐ Maintain Existing Power Method per §141.0(b)2L
		Responsible Designer Name: Gregory Michael Dillett Responsible Designer Signature: Gregory Dillett	<sup>1</sup> FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.
		Company: Date Signed: 1000 2023-03-03	
		Address: License: 22 Chatel drive 21635	
		Z2 Criate drive	
		4/3-313-2032	
ation Number:	Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft
uilding Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:14	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:14  Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:11  Schema Version: rev 20200601

CLIENT:

ADDRESS:

3415 CALIFORNIA ST. SAN FRANCISCO, CA 94118

#### CONFIDENTIALITY STATEMENT:

ALL DRAWINGS AND WRITTEN MATERIALS

APPEARING HEREIN CONSTITUTE THE

ORIGINAL AND UNPUBLISHED WORK OF THE

DESIGNER AND THE SAME MAY NOT BE

DUPLICATED, USED OR DISCLOSED WITHOUT CONSENT OF THE DESIGNER.

### NOTES:

1. ALL DIMENSIONS HEREIN ARE IN IMPERIAL UNITS UNLESS STATED OTHERWISE.

2. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DESIGNER, ENGINEER OR SPECIALIST DRAWINGS AND SPECIFICATIONS.

3. THE CONTRACTOR MUST CHECK ALL DIMENSION AT SITE BEFORE COMMENCING WORK.

4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY TEMPORARY SUPPORT TO THE BUILDING AND ANY ADJACENT STRUCTURES.

REV. NO	DESCRIPTION	DATE	BY
01	FOR APPROVAL	02/23	A.B
00	FOR APPROVAL	12/22	A.B

### PROJECT:

LAUREL VILLAGE TITLE:

### T24-4

PROJ. NO. PROJ. ENGR. | SCALE @ 24X36: NTS DRAWING NO.

state of California Outdoor Lighting	STATE OF CALIFORNIA  Outdoor Lighting	STATE OF CALIFORNIA Outdoor Lighting	STATE OF CALIFORNIA Outdoor Lighting
NRCC-LTO-E  CERTIFICATE OF COMPLIANCE  CERTIFICATE OF COMPLIANCE  NRCC-LTO-E	NRCC-LTO-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-LTO-E	NRCC-LTO-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-LTO-E	NRCC-LTO-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-LTO-E
Project Name:         3415 California St TI Report Page:         (Page 2 of 6)           Project Address:         3415 California St Date Prepared:         3/3/2023	Project Name:         3415 California St Tl         Report Page:         (Page 3 of 6)           Project Address:         3415 California St Date Prepared:         3/3/2023	Project Name:     3415 California St TI Report Page:     (Page 4 of 6)       Project Address:     3415 California St Date Prepared:     3/3/2023	Project Name:         3415 California St Ti Report Page:         (Page 5 of 6)           Project Address:         3415 California St Date Prepared:         3/3/2023
C. COMPLIANCE RESULTS	F. OUTDOOR LIGHTING FIXTURE SCHEDULE	K. LIGHTING ALLOWANCE: SALES FRONTAGE	P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for auidance or see applicable Table referenced below.	For new or altered lighting systems demonstrating compliance with <u>\$140.7</u> all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per <u>\$141.0(b)2L</u> only new luminaires being installed and	This section does not apply to this project.	Selections have been made based on information provided in this document. If any selection 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 must be completed through an Acceptance Test Technician Certification
Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L         Compliance Results           01         02         03         04         05         06         07         08         09	replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).  Designed Wattage:	L. LIGHTING ALLOWANCE: ORNAMENTAL  This section does not apply to this project.	Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html  Form/Title  Systems/Spaces To Be Field Field Inspector
General Per Sales Ornamental Per Specific Existing Power	01 02 03 04 05 06 07 08 09 10 Cutoff Req. > Field	M. LIGHTING ALLOWANCE: PER SPECIFIC AREA	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <=
Allowance \$140.7(d)1	Name or Item Complete Luminaire Description Tag Complete Luminaire Description Uminaire 1,2 Uminaire S Status S S S S S S S S S S S S S S S S S S S	This section does not apply to this project.	20 luminaires.
(See Table I)	determined Saladian S	N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)  This table includes all existing luminaires being replaced to establish the lighting power allowance per §141.0(b)2Lii or §141.0(b)2Liii, Existing luminaires that are remaining or being	
Cutoff Compliance (See Table G for Details)  Controls Compliance (See Table H for Details)  COMPLIES	* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.  EX: Luminaire is lighting a statue; EXCEPTION 2 to \$130.2(b)	moved should NOT be included.  Existing Conditions Wattage:	
D. EXCEPTIONAL CONDITIONS	<sup>1</sup> FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per <u>§130.0(c)</u> <sup>2</sup> For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires. <sup>3</sup> Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain"	01 02 03 04 05 06 07  Watts per How is Wattage # of Luminaires Field Inspector	
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.	Name or Item Tag Complete Luminaire Description Value of Item Tag Complete Luminaire Description Uminaire 1.2 determined Being Replaced Existing Watts  Total Existing Watts	
E. ADDITIONAL REMARKS  This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	<sup>4</sup> Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by <u>§130.2(b)</u> G. CUTOFF REQUIREMENTS (BUG)	Allowance per <u>§141.0(b)2L</u> :	
	This section does not apply to this project.	<sup>1</sup> FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) <sup>2</sup> For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.	
	H. OUTDOOR LIGHTING CONTROLS	O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION  Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E.	
	This section does not apply to this project.  I. LIGHTING POWER ALLOWANCE (per §140.7)	Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/	
	This section does not apply to this project.	Form/Title Field Inspector Pass Fail	
	J. LIGHTING ALLOWANCE: PER APPLICATION	NRCI-LTO-01-E - Must be submitted for all buildings  NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for	
	This section does not apply to this project.	compliance.	
Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:11 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:11 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:11 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:11 Schema Version: rev 20200601
STATE OF CALIFORNIA	STATE OF CALIFORNIA	STATE OF CALIFORNIA	STATE OF CALIFORNIA
Outdoor Lighting NRCC-LTO-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E	Domestic Water Heating System  NRCC-PLB-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-PLB-E	Domestic Water Heating System  NRCC-PLB-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-PLB-E	Domestic Water Heating System  NRCC-PLB-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-PLB-E
Project Name:         3415 California St Tl Report Page:         (Page 6 of 6)           Project Address:         3415 California St Date Prepared:         3/3/2023	This document is used to demonstrate compliance for nonresidential occupancies with requirements in §110.1, §110.3, §120.3, and §140.5, and with requirements in §141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with	Project Name: 3415 California St TI Report Page: (Page 2 of 6) Project Address: 3415 California St Date Prepared: 3/3/2023	Project Name: 3415 California St Tl Report Page: (Page 3 of 6) Project Address: 3415 California St Date Prepared: 3/3/2023
	requirements in §110.1, §110.3, §120.3, §150.0 and §150.1(c)8, and with requirements §150.2 for additions.         Project Name:       (Page 1 of 6)		
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT  I certify that this Certificate of Compliance documentation is accurate and complete.	Project Address: 3415 California St Date Prepared: 3/3/2023	C. COMPLIANCE RESULTS  Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with	F. DOMESTIC HOT WATER EQUIPMENT  This table is used to demonstrate compliance with mandatory equipment requirements in §110.1 and §110.3. For high-rise residential and hotel/motel occupancies, compliance with
Documentation Author Name:  Syed P. Alam  Documentation Author Signature:  Syed Alam	A. GENERAL INFORMATION  01 Project Location (city) San Francisco 02 Climate Zone 3	Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.  01 02 03 04	prescriptive requirements in \$150.1(c)8 must also be demonstrated and with \$150.2 for addition and alteration scopes.  Equipment Schedule: Individual Systems
Company: InnoDez, Inc. Address: CEA/ HERS Certification Identification (if applicable):	03 Occupancy Types Within Project (select all that apply):  ☑ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel	Domestic Hot Water Equipment Distribution Systems Controls  Table F Table G Table H Compliance Results	01         02         03         04         05         06           Name or         Max GPM/ First Rated Uniform         Rated Uniform         06
726 Foxbrough pl  City/State/Zip: Phone:	☐ State Building ☐ Healthcare Facility ☐ Other (Write In)	Yes Yes Yes COMPLIES	Item Tag Equipment Type Volume (gal) Hour Rating Energy Factor (UEF)*  (FHR) (UEF) Minimum Required Uniform Energy Factor (UEF)*
Pleasanton CA 94566 9168321752  RESPONSIBLE PERSON'S DECLARATION STATEMENT	B. PROJECT SCOPE  This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §140.5,	D. EXCEPTIONAL CONDITIONS  This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	A. O. SMITH ENSB-30 Residential-Duty Commercial Electric SENSB-30 Residential-Duty Commercial Electric SENSB-30 O <= GPM <1.7 O.8 O.8
I certify the following under penalty of perjury, under the laws of the State of California:  1. The information provided on this Certificate of Compliance is true and correct.  2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)	§150.1(c)8, and §141.0(a), or §141.0(b)2N for additions or alterations. Solar water heating systems are documented on the NRCC-SRA compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.	E. ADDITIONAL REMARKS	<sup>1</sup> FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website:  https://cacertappliances.energy.ca.gov/Pages/Search/AdvancedSearch.aspx
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.	01 02 03  My project consists of (check all that apply): System Type 1,2 System Components	This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.	Water Heating Equipment All Occupancies  Yes No Not Applicable Requirement
<ol> <li>The building design features or system design features identified on this Certificate of Compilance are consistent with the information provided on other applicable compilance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.</li> <li>I will ensure that a completed signed copy of this Certificate of Compilance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable</li> </ol>	New system (DHW system being installed for the first time in newly constructed building)  Individual System (serving nonresidential spaces)    Controls		18 Unfired storage tank insulation shall have Internal >=R-16 OR External >=R-12. Label required per \$110.3(c)3
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:  Gregory Michael Dillett  Gregory Dillett  Gregory Dillett	System Alteration (equipment, distribution or controls)  [ Equipment		19 □ □ New state buildings 60% of energy for service water heating from site solar energy or recovered energy per \$110.3(c)5
Company:   Date Signed:   Innodez   2023-03-03	<sup>2</sup> Dwelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy.		20 Solation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per \$110.3(c)6
Address: License: 22 Chatel drive 21635			
City/State/Zip:			
Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:11 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:12 Schema Version: rev 202000601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:12 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:12 Schema Version: rev 20200601
STATE OF CALIFORNIA	STATE OF CALIFORNIA	STATE OF CALIFORNIA	
Domestic Water Heating System NRCC-PIB-E CALIFORNIA ENERGY COMMISSION	Domestic Water Heating System  NRC-PLB-E  CALIFORNIA ENERGY COMMISSION	Domestic Water Heating System  NRCC-PIB-E  CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE  Project Name:  3415 California St TI Report Page:  (Page 4 of 6)	CERTIFICATE OF COMPLIANCE  Project Name:  3415 California St Ti Report Page:  (Page 5 of 6)	CERTIFICATE OF COMPLIANCE  Project Name:  3415 California St TI Report Page:  (Page 6 of 6)	
Project Address: 3415 California St Date Prepared: 3/3/2023	Project Address: 3415 California St Date Prepared: 3/3/2023	Project Address: 3415 California St Date Prepared: 3/3/2023	
G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM	H. DOMESTIC HOT WATER CONTROLS	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in §120.3 and §140.5. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements §110.3(c), §120.3, §150.0, §150.1	This table is used to demonstrate compliance with control requirements in §110.3 for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is also demonstrated with requirements in §150.1(c)8.	I certify that this Certificate of Compliance documentation is accurate and complete.  Documentation Author Name:  Syed P. Alam  Documentation Author Signature:  Syed Alam	
Mandatory Pipe Insulation All Occupancies  For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per §120.3:  Recirculating system piping, including supply and return piping of the water heater	Yes No Requirement  Construction documents require manufacturer certification that service water-heating systems are equipped with automatic	Company:   Signature Date:   InnoDez, Inc.   2023-03-03	
The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system     Pipes that are externally heated	temperature controls capable of adjusting temperature settings per §110.3(a).	Address: CEA/ HERS Certification (if applicable): 726 Foxbrough pl	
Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per §120.3(b) and §150.0(i)3	Plumbing Code 613.0.  Controls for circulating number or electrical heat trace outcome are concluded a support of the custom par	City/State/Zip:         Phone:           Pleasanton CA 94566         9168321752	
TABLE 120.3-A PIPE INSULATION THICKNESS  Conductivity Bange Nominal Pipe Diameter (in)	03 Controls for circulating pumps of electrical near trace systems are capable of automatically turning off the system per \$\frac{\\$110.3(c)2}{\\$10.3(c)2}\$ unless systems serves healthcare facility.  For recirculation systems serving multiple dwelling units, design includes automatic pump controls per \$\frac{\\$5150.1(c)8Bii}{\\$5150.2}\$	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.	
Fluid Temperature Range ( °F)  Conductivity Range (Btu-in per hour per ft² per °F)  Conductivity Range (Btu-in per hour per ft² per °F)  Conductivity Range ( °F)  (Btu-in per hour per ft² per °F)  Conductivity Range ( °F)  (Btu-in per hour per ft² per °F)  Conductivity Range ( °F)  (Btu-in per hour per ft² per °F)  Minimum Insulation Required	for additions or alterations.  For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference	<ol> <li>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)</li> <li>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</li> </ol>	
105-140 0.22 - 0.28 100 1.0 in or R-7.7 1.5 in or R-12.5 1.5 in or R-11	Appendix RA4.4.9 per \$150.1(c)8.  For replacement single heat pump water heaters serving individual dwelling units in climate zone 1-15, design includes	of Title 24, Part 1 and Part 6 of the California Code of Regulations.  4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	
	communication interface that meets demand responsive control requirements of §110.12(a) per §150.2(b)1Hiii.	5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.  Responsible Designer Name:  Responsible Designer Signature:	
	I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION  Selections have been made based on information provided in this document. If any selection 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 at	Syed P. Alam Company: Date Signed:	
	Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at <a href="https://www.energy.ca.gov/title24/2019standards/2019">https://www.energy.ca.gov/title24/2019standards/2019</a> _compliance_documents/Nonresidential_Documents/NRCI/  Field Inspector	Innodez         2023-03-03           Address:         License:           726 Foxbrough PI         27087	
	Form/Title Field Inspector  Pass Fail	726 Foxorough Pl	
	NRCI-PLB-01-E - Must be submitted for all buildings		
	There are no Certificates of Acceptance applicable to service water heating requirements.		
	K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION  There are no NRCV forms required for this project.		
Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:12 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:12 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-03-03 13:05:12 Schema Version: rev 20200601	
Series Telsion for Educated	Streng Telsion, let 2020002	Sentence regions for Education	1

CLIENT:

#### ADDRESS:

3415 CALIFORNIA ST. SAN FRANCISCO, CA 94118

#### CONFIDENTIALITY STATEMENT:

ALL DRAWINGS AND WRITTEN MATERIALS

APPEARING HEREIN CONSTITUTE THE

ORIGINAL AND UNPUBLISHED WORK OF THE

DESIGNER AND THE SAME MAY NOT BE

DUPLICATED, USED OR DISCLOSED WITHOUT

CONSENT OF THE DESIGNER.

#### NOTES:

1. ALL DIMENSIONS HEREIN ARE IN IMPERIAL UNITS UNLESS STATED OTHERWISE.

2. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DESIGNER, ENGINEER OR SPECIALIST DRAWINGS AND

SPECIFICATIONS. 3. THE CONTRACTOR MUST CHECK ALL

DIMENSION AT SITE BEFORE COMMENCING

4. THE CONTRACTOR IS RESPONSIBLE FOR

PROVIDING ALL NECESSARY TEMPORARY SUPPORT TO THE BUILDING AND ANY ADJACENT STRUCTURES.

REV. NO	DESCRIPTION	DATE	B
01	FOR APPROVAL	02/23	A.B
00	FOR APPROVAL	12/22	A.B

#### PROJECT:

LAUREL VILLAGE

### T24-5

PROJ. NO.	PROJ. ENGR.	SCI	ALE @ 24X36:
			NTS
DRAMING	NO.		REV.
т	24-5		

INAC EVETEM LIE	ATING	AND COOLING LOAD	e cum	MADV				LIVAC EVETEM LIE	ATING	AND COOLING LOAD	e elim	MADV			
HVAC SYSTEM HE Project Name 3415 California St TI	ATING	AND COOLING LOAD	SSUM	MARY		Date 3/	3/2023	Project Name 3415 California St TI	ATING	AND COOLING LOAD	SSUM	WARY		Date 3/	3/20
System Name E) HVAC System 1						Floor	Area 855	System Name (N) HVAC System						Floor	Area 918
ENGINEERING CHECKS		SYSTEM LOAD						ENGINEERING CHECKS		SYSTEM LOAD					
Number of Systems	1		COII	COOLING P	FAK	COIL H	rg. PEAK	Number of Systems	1		COII	COOLING F	PFΔK	COIL H	FG. F
Heating System			CFM	Sensible	Latent	CFM	Sensible	Heating System			CFM	Sensible	Latent	CFM	Ser
Output per System	30,000	Total Room Loads	1,021		2,844	440	17,126	Output per System	30,000	Total Room Loads	1,166			452	
Total Output (Btuh)	30,000	Return Vented Lighting		0				Total Output (Btuh)	30,000	Return Vented Lighting		0			
Output (Btuh/sqft)	35.1	Return Air Ducts		1,040			856	Output (Btuh/sqft)	32.7	Return Air Ducts		1,164	ı		
Cooling System		Return Fan		0			0	Cooling System		Return Fan		0	ı		
Output per System	30,000	Ventilation	138	369	-325	138	4,317	Output per System	30,000	Ventilation	233	131	-1,787	233	
Total Output (Btuh)	30,000	Supply Fan		1,519			-1,519	Total Output (Btuh)	30,000	Supply Fan		1,519	, , ,		
Total Output (Tons)	2.5	Supply Air Ducts		1,040			856	Total Output (Tons)	2.5	Supply Air Ducts		1,164	ı		
	35.1	Supply All Ducts		1,010					32.7	Supply All Ducts		1,141			
Total Output (Btuh/sqft)	342.0	TOTAL SYSTEM LOAD		24,772	2,519	ŀ	21,637	Total Output (Btuh/sqft)	367.3	TOTAL SYSTEM LOAD		27,249	2,251	ŀ	
Total Output (sqft/Ton)	072.0	TOTAL SYSTEM LOAD		24,772	2,010		21,007	Total Output (sqft/Ton)	001.0	TOTAL SYSTEM LOAD		21,240	2,201		
Air System	885							Air System	730						—
CFM per System		HVAC EQUIPMENT SELECTION		07.000	0.500		00.000	CFM per System		HVAC EQUIPMENT SELECTION		00.400	0.040		
Airflow (cfm)	885	(E) Carrier 48XP-024060		27,962	2,538	-	30,000	Airflow (cfm)		(N) Carrier 48XP-024060		28,493	2,340	-	
Airflow (cfm/sqft)	1.04							Airflow (cfm/sqft)	0.80						
Airflow (cfm/Ton)	354.0							Airflow (cfm/Ton)	292.0						
Outside Air (%)	15.5%	Total Adjusted System Output (Adjusted for Peak Design conditions)		27,962	2,538		30,000	Outside Air (%)	31.8%	Total Adjusted System Output (Adjusted for Peak Design conditions)		28,493	2,340		
Outside Air (cfm/sqft)	0.16							Outside Air (cfm/sqft)	0.25						
Note: values above given at ARI		TIME OF SYSTEM PEAK Airstream Temperatures at Time			Jul 4 PM		Jan 1 AM	Note: values above given at ARI		TIME OF SYSTEM PEAK Airstream Temperatures at Time			Sep 3 PM		Já
Outside Air 138 cfm Supply Far 885 cfm	64 °F  Heating 0	105 °F	<b></b>		RC	ОМ	04 °F	Outside Air 233 cfm Supply Far 730 cfm	60 °F  Heating t	105 °F			RC	ЮМ	04 °F
COOLING SYSTEM PSYCHR	OMETRICS	(Airstream Temperatures at Time	of Cooling	Peak)				COOLING SYSTEM PSYCHR	OMETRICS	(Airstream Temperatures at Time	of Cooling	Peak)			_
79 / 63 °F 76 / 6		Cooling Coil	<b>→</b>	48.69	6 RC	ОМ	/ 54 °F / 62 °F	77 / 61 °F 77 / 6  Outside Air 233 cfm  76 / 63 °F		Cooling Coil	<b>→</b>	51.19	% RC	ОМ	/54°

London N. Breed, Mayor City and County of San Francisco Patrick O'Riordan, C.B.O., Director INFORMATION SHEET NO. M-04 January 1, 2023 DATE Mechanical (and Electrical & Plumbing) 2022 Title-24 Energy/Green Forms for Non-Residential, High-Rise Residential, and Hotel/Motel Buildings The purpose of this Information Sheet is to provide Title-24 energy inspection forms for non-residential, high-rise residential, and hotel/motel buildings based on the 2022 California Energy Code (CEC) and green building compliance per 2022 San Francisco Green Building Code (SFGBC) and Administrative Bulletin 093 (AB-093). REFERENCE : • 2022 California Energy Code 2022 San Francisco Green Building Code Administrative Bulletin 093 (AB-093) Information Sheet GB-01 DISCUSSION: The 2022 California Energy Code (CEC) will take effect on January 1, 2023. Additional and updated compliance, installation, and verification forms apply to the new Energy Code. Compliance with AB-093 Attachment E for new construction and major alterations. 2022 California Energy Code Form Requirements for Non-residential Non-Residential, High-Rise Residential, and Hotel/Motel Title-24 is comprised of Certificate of Compliance, Certificate of Installation, Certificate of Acceptance, and Certificate of Verification forms. Compliance documentation of the AB-093 is comprised of Attachment E. The Non-Residential Energy Inspection forms are included in the following attachments. Effective Date of the Provisions of this Information Sheet The provisions of this information sheet become effective for building permit applications submitted on or after January 1, 2023. The provisions of the AB-093 Attachment E form are required for new construction and major alteration permits that have a final certificate of occupancy after January 1, 2019. Note: Refer to GB-01, Attachment H for projects required to exceed energy standards per San Francisco Green Building Code: Patrick O'Riordan, C.B.O., Director Date Department of Building Inspection Attachment Title-24 Energy Inspection Req. Non-Residential (Building) Attachment Title-24 Energy Inspection Reg. Non-Residential (Electrical) Attachment Title-24 Energy Inspection Req. Non-Residential (Plumbing) Energy Inspection Services
49 South Van Ness Ave – San Francisco CA 94103

City and County of San Francisco Department of Building Inspection



#### TITLE-24 NON-RESIDENTIAL ENERGY/GREEN INSPECTION

Please note that Certificates of Installation and/or Acceptance and/or Verification are required for this project, as indicated on this form issued with this permit. Ensuring the accurate completion of this documentation is the direct responsibility of the engineer/architect of record. This documentation is required *in addition to* the called inspections performed by the Department of Building Inspection. For questions regarding the details or extent of required documentation or testing, and if there are any field problems regarding documentation or testing, please call your District Building Inspector or 628-652-3400.

**REQUIREMENTS (BUILDING)** 

Before final building inspection is scheduled, documentation of energy compliance "Certificate of Installation, Acceptance, and Verification" and green building "Attachment E" must be completed and signed by the responsible person in charge. The permit will not be finalized without compliance with the energy inspection requirements.

**Energy Inspection Services Contact Information** 

dbi.energyinspections@sfgov.org

3. In person: 4th floor at 49 South Van Ness Ave.

Note: We are moving towards a 'paperless' mode of operation. All special inspection submittals, including final letters, may be emailed (preferred).

stallation, Acceptance, and Verification certificates can be found on the California Energy Commission website at https://www.energy.ca.gov/programs-and-topics/programs/buildingenergy-efficiency-standards/2022-building-energy-efficiency

Information Sheet M-06 provides submittal instructions for the Title-24 installation, verification, and acceptance energy certificates. M-06 may be found on the SFDBI website at https://sf.gov/resource/2022/information-sheets-dbi

> **Energy Inspection Services** 49 South Van Ness Ave - San Francisco CA 94103 Office (628) 652-3407 – www.sfgov.org/dbi (website)

#### TITLE-24 NON-RESIDENTIAL ENERGY/GREEN INSPECTION (BUILDING) A COPY OF THIS DOCUMENT SHALL BE KEPT WITH THE APPROVED DRAWING SET

JOB ADDRESS 3415 California St. San Francisco APPLICATION NO. 202202178229 ADDENDUM NO. ENGINEER/ARCHITECT NAME SYED P. ALAM PHONE NO. 916-813-1752 Ensuring the completion of installation documentation as well as the required acceptance/verification testing is the direct responsibility of the undersigned. Installation documentation must be completed by the contractor performing the installation. Acceptance testing must be performed by an individual licensed to perform the specific testing needed Verification testing must be completed by a certified HERS rater. Green Building Attachment E shall be completed as

In accordance with the requirements of the 2022 California Energy Code, 2022 SFGBC and AB-093, the following documentation is required for the **building** elements in this project:

☐ NRCI-PRC-E Covered Processes (IB73) ☑ NRCI-ENV-E Envelope (IB71) ✓ NRCI-MCH-E Mechanical (IB72) 2. Acceptance Envelope

☐ NRCA-ENV-02-F Fenestration Acceptance (AB1) ✓ NRCA-MCH-02-A Outdoor Air (AB2) NRCA-MCH-03-A Constant Volume Single Zone HVAC (AB3)
 NRCA-MCH-04-H HERS Air Distribution Duct Leakage Testing □ NRCA-ENV-03-F Daylighting Design PAF Acceptance (AB25) □ NRCA-PRC-01-F Compressed Air Systems (AB15) (AB4)

□ NRCA-MCH-05-A Air Economizer Controls (AB5) □ NRCA-PRC-02-F Commercial Kitchen Exhaust (AB16)
□ NRCA-PRC-03-F Parking Garage Exhaust (AB17) □ NRCA-MCH-06-A Demand Control Ventilation (DVC) (AB6)
□ NRCA-MCH-07-A Supply Fan Variable Flow Controls (VFC) (AB7) □ NRCA-PRC-04-F Refrigerated Warehouse – Evaporator Fan Controls (AB18) □ NRCA-MCH-11-A Automatic Demand Shed Controls (AB8)
□ NRCA-MCH-12-A Fault Detection & Diagnostics for DX Units (AB9)

(AB18)

NRCA-PRC-05-F Refrigerated Warehouse – Evaporative Condenser Controls (AB19)

NRCA-PRC-06-F Refrigerated Warehouse – Air-cooled Condenser ☑ NRCA-MCH-13-A Automatic Fault Detection & Diagnostics for Air □ NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Test
 (AB11)
 □ NRCA-MCH-15-A Thermal Energy Storage (TES) Systems (AB12) Controls (AB20) Controls (AB20)

NRCA-PRC-07-F Refrigerated Warehouse – Variable Speed Compressor
(AB21)

NRCA-PRC-08-F Refrigerated Warehouse – Electric Resistance Underslab

NRCA-PRC-08-F Refrigerated Warehouse – Electric Resistance Underslab

NRCA-MCH-18-A Supply Air Temperature Reset Controls(AB13)

Heating System (AB22)

NRCA-PRC-12-F Elevator Lighting & Ventilation Controls (AB23)

NRCA-PRC-13-F Escalators & Moving Walkways Speed Controls (AB24) □ NRCA-MCH-18-A Energy Management Control System (AB14) ☐ NRCA-MCH-19-A Occupied Standby Acceptance (AB26) ☐ NRCA-MCH-20-A Multifamily Ventilation (AB32) □ NRCA-PRC-14-F Lab Exhaust Ventilation System (AB27)
□ NRCA-PRC-15-F Fume Hood Automatic Sash Closure System (AB28) □ NRCA-MCH-21-A Multifamily Leakage (AB33) □ NRCA-MCH-22-A System Duct Leakage (AB34)
□ NRCA-MCH-23-A HRV ERV Verification (AB35) □ NRCA-PRC-16-F Adiabatic Condensers and Condenser Fan Motor Variable Speed Control (AB29) 3. Verification 4. Green Building (For New Construction and Major Alterations)

□ NRCV-MCH-04-H HERS Duct Leakage Diagnostic Test (VB55) □ NRCV-MCH-024-H HERS Enclosure Air Leakage Worksheet (VB61) □ NRCV-MCH-027-H HERS IAQ (VB62) □ NRCV-MCH-032-H HERS Local Mechanical Exhaust (VB63)

Required information:

Syed P. Alam

Digitally signed by Syed P. Alam

Dig Engineer/Architect of Record Signature Email: syedalam44@yahoo.com Fax: (424) 414-0997

Review by: MOHSIN SHAIKH \_\_\_\_ <sub>Phone:</sub> <u>(6</u>28) 652-3717 DBI Engineer or Plan Checker APPROVAL (Based on submitted reports)

DBI Building Inspector or Energy Inspection Services Staff QUESTIONS ABOUT TITLE-24 ENERGY INSPECTION SHOULD BE DIRECTED TO: Energy Inspection Services (628) 652-3407; or, dbi.energyinspections@sfgov.org

City and County of San Francisco Department of Building Inspection



London N. Breed, Mayor Patrick O'Riordan, C.B.O., Director

#### TITLE-24 NON-RESIDENTIAL ENERGY INSPECTION REQUIREMENTS (ELECTRICAL)

Please note that Certificates of Installation and/or Acceptance and/or Verification are required for this project, as indicated on this form issued with this permit. Ensuring the accurate completion of this documentation is the direct responsibility of the engineer/architect of record. This documentation is required *in addition to* the called inspections performed by the Department of Building Inspection.

For questions regarding the details or extent of required documentation or testing, and if there are any <u>field</u> problems regarding documentation or testing, please call your District Building Inspector or 628-652-3400.

Before final building inspection is scheduled, documentation of energy compliance "Certificate of Installation, Acceptance, and Verification" and green building "Attachment E" must be completed and signed by the responsible person in charge. The permit will not be finalized without compliance with the energy inspection requirements.

**Energy Inspection Services Contact Information** 1. Telephone: (628) 652-3407

2. Email: <u>dbi.energyinspections@sfgov.org</u>

3. In person: 4th floor at 49 South Van Ness Ave.

Note: We are moving towards a 'paperless' mode of operation. All special inspection submittals, including final letters, may be emailed (preferred).

Installation, Acceptance, and Verification certificates can be found on the California Energy Commission website at <a href="https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-energ Information Sheet M-06 provides submittal instructions for the Title-24 installation, verification, and acceptance energy certificates. M-06 may be found on the SFDBI website at <a href="http://sfdbi.org/information-sheets">http://sfdbi.org/information-sheets</a>

Energy Inspection Services
49 South Van Ness Ave – San Francisco CA 94103
Office (628) 652-3407 – www.sfgov.org/dbi (website)

#### TITLE-24 NON-RESIDENTIAL ENERGY INSPECTION (ELECTRICAL/LIGHTING) A COPY OF THIS DOCUMENT SHALL BE KEPT WITH THE APPROVED DRAWING SET

JOB ADDRESS 3415 California St. San Francisco APPLICATION NO. 202202178229 ADDENDUM NO. ENGINEER/ARCHITECT NAME Gregory Michael Dillett

Ensuring the completion of installation documentation as well as the required acceptance/verification testing is the direct responsibility of the undersigned. Installation documentation must be completed by the contractor performing the installation. Verification testing must be completed by a certified HERS rater.

In accordance with the requirements of the 2022 California Energy Code, the following documentation is required

1. Installation 2. Acceptance Indoor Lighting Indoor Lighting ☑ NRCI-LTI-E Indoor Lighting (IE21) ☑ NRCA-LTI-02-A Lighting Controls (AE1) Outdoor Lighting □ NRCA-LTI-03-A Automatic Daylighting Controls (AE2) ☑ NRCI-LTO-E Outdoor Lighting (IE22) □ NRCA-LTI-04-A Demand Responsive Lighting Controls Sign Lighting □ NRCA-LTI-05-A Institutional Tuning PAF (AE5) ☐ NRCI-LTS-E Sign Lighting (IE23) Electrical Outdoor Lighting ☑ NRCA-LTO-02-A Outdoor Motion Sensor and Lighting ☑ NRCI-ELC-E Electrical (IE24) Shut-Off Controls (AE4)

□ NRCI-SPA-E Solar Access Requirements (IE25)

Gregory Dillett Disclaids signed by Gregory Dillett, Original Signed by Gregory Dillett, Original Signed by Gregory Dillett, Original Composition, Origina \_ Email: gdillett@gmail.com Fax: (424) 414-0997 Review by: MOHSIN SHAIKH Phone: (628) 652-3717

APPROVAL (Based on submitted reports) DBI Electrical Inspector or Energy Inspection Services Staff

QUESTIONS ABOUT TITLE-24 ENERGY INSPECTION SHOULD BE DIRECTED TO: Energy Inspection Services (628) 652-3407; or, dbi.energyinspections@sfgov.org

DBI Engineer or Plan Checker

#### City and County of San Francisco Department of Building Inspection

### Patrick O'Riordan, C.B.O., Director

London N. Breed, Mayor

#### TITLE-24 NON-RESIDENTIAL ENERGY INSPECTION **REQUIREMENTS (PLUMBING)**

Please note that Certificates of Installation and/or Acceptance and/or Verification are required for this project, as indicated on this form issued with this permit. Ensuring the accurate completion of this documentation is the direct responsibility of the engineer/architect of record. This documentation is required in addition to the called inspections performed by the Department of Building Inspection.

For questions regarding the details or extent of required documentation or testing, and if there are any <u>field</u> problems regarding documentation or testing, please call your District Building Inspector or 628-652-3400.

Before final building inspection is scheduled, documentation of energy compliance "Certificate of Installation, Acceptance, and Verification" and green building "Attachment E" must be completed and signed by the responsible person in charge. The permit will not be finalized without compliance with the energy inspection requirements.

**Energy Inspection Services Contact Information** 

- 1. Telephone: (628) 652-3407
- 2. Email: <u>dbi.energyinspections@sfgov.org</u>
- 3. In person: 4th floor at 49 South Van Ness Ave.

Note: We are moving towards a 'paperless' mode of operation. All special inspection submittals, including final letters, may be emailed (preferred).

Installation, Acceptance, and Verification certificates can be found on the California Energy Commission website at <a href="https://www.energy.ca.gov/programs-and-">https://www.energy.ca.gov/programs-and-</a> topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency

Information Sheet M-06 provides submittal instructions for the Title-24 installation, verification, and acceptance energy certificates. M-06 may be found on the SFDBI website at http://sfdbi.org/information-sheets

> **Energy Inspection Services** 49 South Van Ness Ave – San Francisco CA 94103 Office (628) 652-3407 – <u>www.sfgov.org/dbi</u> (website)

#### TITLE-24 NON-RESIDENTIAL ENERGY INSPECTION (PLUMBING)

A COPY OF THIS DOCUMENT SHALL BE KEPT WITH THE APPROVED DRAWING SET JOB ADDRESS 3415 California St. San Francisco APPLICATION NO. 202202178229 ADDENDUM NO. \_ PHONE NO. 916-813-1752 ENGINEER/ARCHITECT NAME SYED P. ALAM Ensuring the completion of installation documentation as well as the required acceptance/verification testing is the direct responsibility of the undersigned. Installation documentation must be completed by the contractor performing the installation. Verification testing must be completed by a certified HERS rater.

In accordance with the requirements of the 2022 California Energy Code, the following documentation is required for the plumbing work in this project:

1. Installation 3. Verification Plumbing ☑ NRCI-PLB-E Plumbing (IP16) ☐ NRCV-PLB-21-H High Rise 2. Acceptance Water System Distribution (VP1) Mechanical ☐ NRCV-PLB-22-H High Rise ☐ NRCA-MCH-08-A Valve Leakage Test (AP1) Residential/Hotel/Motel Single □ NRCA-MCH-09-A Supply Water Temperature Reset Controls (AP2) Dwelling Unit Hot Water System □ NRCA-MCH-10-A Hydronic System Variable Flow Controls (AP3)

Fax: (424) 414-0997

DBI Plumbing Inspector or Energy Inspection Services Staff

Review by: MOHSIN SHAIKH Phone: (628) 652-3717

DBI Engineer or Plan Checker APPROVAL (Based on submitted reports)

□ NRCA-MCH-17-A Condenser Water Temperature Reset Controls (AP4)

QUESTIONS ABOUT TITLE-24 ENERGY INSPECTION SHOULD BE DIRECTED TO: Energy Inspection Services (628) 652-3407; or, dbi.energyinspections@sfgov.org

#### CLIENT:

#### ADDRESS:

3415 CALIFORNIA ST. SAN FRANCISCO, CA 94118

#### **CONFIDENTIALITY STATEMENT:**

ALL DRAWINGS AND WRITTEN MATERIALS

APPEARING HEREIN CONSTITUTE THE

ORIGINAL AND UNPUBLISHED WORK OF THE

DESIGNER AND THE SAME MAY NOT BE

CONSENT OF THE DESIGNER.

DUPLICATED, USED OR DISCLOSED WITHOUT

#### NOTES:

1. ALL DIMENSIONS HEREIN ARE IN IMPERIAL UNITS UNLESS STATED OTHERWISE.

2. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DESIGNER, ENGINEER OR SPECIALIST DRAWINGS AND SPECIFICATIONS.

3. THE CONTRACTOR MUST CHECK ALL DIMENSION AT SITE BEFORE COMMENCING

4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY TEMPORARY SUPPORT TO THE BUILDING AND ANY

ADJACENT STRUCTURES.

DATE BY DESCRIPTION (REV. NO. FOR APPROVAL 02/23 12/22 A.B FOR APPROVAL

#### PROJECT:

LAUREL VILLAGE

### T24-6

PROJ. NO. PROJ. ENGR. SCALE @ 24X36: NTS DRAWING NO. T 2 4 - 6

Project Name:	3415 California St TI		NF	RCC-PRF-01-E	Page 13 of 17			
Project Address:	3415 California St San Francisc	co 94118	Ca	lculation Date/Time:	10:10, Tue, Feb 2	1, 2023		
Input File Name:	2849_3415 California St, San F Analysis_V8cibd19x	rancisco, CA 94118_Energy						
K3. INDOOR CO	NDITIONED LIGHTING CONTROL C	REDITS						
	Lighting Control Credits Schedul	e (includes all lighting controls install	ed in condition	ed space for complian	ce credit per §140.6	6(a)2 and Table 140.	6-A)	
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustmen Factor (PAF	I or Item laσ	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-9-Server	Electrical, Mechanical, Telephone Rooms	NA	0.00 0.00 0.00 0.00 0.00	L2	39.4	2	39	0
S-10-Office	Office Area (>250 square feet)	NA	0.00 0.00 0.00 0.00 0.00	L1	213.6	4	214	0
S-11-NS Storage	Commercial/Industrial Storage (Warehouse)	NA	0.00 0.00 0.00 0.00 0.00	L2	39.4	2	39	0
S-12-Mezz - Toilet	All other	NA	0.00 0.00 0.00 0.00 0.00	L7	20.0	1	20	0

Project Name:	3415 California St TI	NRCC-PRF-01-E	Page 14 of	17		
Project Address:	3415 California St San Francisco 94118	Calculation Date/Ti	me: 10:10, Tue,	Feb 21, 2023		
Input File Name:	2849_3415 California St, San Francisco, CA 94118_Energy Analysis_V8cibd19x					
K4. INDOOR CONDITIO	NED LIGHTING MANDATORY LIGHTING CONTROLS	•				
<b>Building Level Controls</b>						
	1				2	
	Mandatory Demand Response §110.12(c)			Shut-Off Con	trols §130.1(c)	
	NA			N	NA .	
Area Level Controls (in	cludes all lighting controls installed in conditioned space to meet ma	andatory requireme	nts per §130.1)			
4	5	6	7	8	9	10
Area Description	n Area Category Primary Function Area	Area Controls 130.1(a)	Multi-Level Controls 130.1(b)	Shut-Off Controls 130.1(c)	Primary Daylighting 130.1(d)	Secondary Daylighting 140.5(d)
Lobby	Corridor Area	Required	Exempt	Required	NA	NA
Retail	Retail Sales Area (Retail Merchandise Sales)	Required	Required	Required	NA	NA
SCP Storage	Commercial/Industrial Storage (Warehouse)	Required	Exempt	Required	NA	NA
Intake	Healthcare Facility and Hospitals (Exam/Treatment Room)	Required	Exempt	Required	NA	NA
Stair	Stairwell	Required	Exempt	Required	NA	NA
Hall	Concourse and Atria Area	Required	Exempt	Required	NA	NA
1st Floor Toilet	Restrooms	Required	Exempt	Required	NA	NA
Lockers	Lounge, Breakroom, or Waiting Area	Required	Required	Required	NA	NA
Server	Electrical, Mechanical, Telephone Rooms	Required	Exempt	Required	NA	NA

Project Name:	3415 California St Tl			NRCC-PRF-01-E	Page 15 of 17
Project Address:	3415 California St San Francisco 94118			Calculation Date/Time:	10:10, Tue, Feb 21, 2023
Input File Name:	2849_3415 California St, San Francisco, CA 94118_I Analysis_V8cibd19x	Energy			
L. DECLARATION OF R	EQUIRED CERTIFICATES OF INSTALLATION				
	ections snall be made by Documentation Author Tuments bust be retained and provided to the bu				it be submitted for the features to be recognized for found online at:
compliance. These doc		uilding insp	pector during c	construction and can be j	
compliance. These doc https://www.energy.co	uments bust be retained and provided to the bu	uilding insp _documen	pector during c	construction and can be juitial_Documents/NRCI/	
compliance. These doc https://www.energy.co Building Component	uments bust be retained and provided to the bu a.gov/title24/2019standards/2019_compliance	uilding insp _documen	pector during c	construction and can be juitial_Documents/NRCI/	
compliance. These doc https://www.energy.co Building Component Envelope	uments bust be retained and provided to the bust grand of the bust	uilding insp _documen	pector during o	construction and can be juitial_Documents/NRCI/	

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844

Report Generated at: 2023-02-21 10:14:28

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2023-02-21 10:14:28 CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

Report Version: NRCC-PRF-01-E-12092021-6844

Report Generated at: 2023-02-21 10:14:28

Report Generated at: 2023-02-21 10:14:28

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roject Address:	3415 California St San Francisco 94118	Calculation Date/Time:	10:10, Tue, Feb 21, 2023
nput File Name:	2849_3415 California St, San Francisco, CA 94118_Energy Analysis_V8cibd19x		
/I. DECLARATION OF	REQUIRED CERTIFICATES OF ACCEPTANCE		•
amnuance I hece do	cuments must he provided to the huilding inspector during construc	tion and must he completed	through an Accentance Test Technician Certification
Provider (ATTCP). For i	cuments must be provided to the building inspector during construc more information visit:https://www.energy.ca.gov/title24/2019star	ndards/2019_compliance_do	
,		•	
Provider (ATTCP). For I	more information visit:https://www.energy.ca.gov/title24/2019stal	ndards/2019_compliance_do	
Provider (ATTCP). For it Building Component Envelope Indoor Lighting	more information visit:https://www.energy.ca.gov/title24/2019stal  NRCA-ENV-02-F - NRFC label verification for fenestration	ndards/2019_compliance_do	ocuments/Nonresidential_Documents/NRCA/
Provider (ATTCP). For a Building Component Envelope	MRCA-ENV-02-F - NRFC label verification for fenestration  NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls  NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed H	ndards/2019_compliance_do	ocuments/Nonresidential_Documents/NRCA/

Project Name:	3415 California St TI	NRCC-PRF-01-E	Page 10	0 of 17		
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Input File Name:	2849_3415 California St, San Francisco, CA 94118_Energy Analysis_V8cibd19x					
<sup>1</sup> See Table 140.6-C <sup>2</sup> See NRCC-LTI-01-E for uncondi <sup>3</sup> Lighting information for existin	tioned spaces g spaces modeled is not included in the table					

K2. INDOOR CONDITIONED LIGHTING SCHEDULE
Luminaire Schedule (includes all permanent installed

space, and portable lighting ove	er 0.3 w/ft² in offices)	Installed Watts (Conditioned)					
1	2	3	4	5	6		
Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined	Total Number Luminaires	Installed Watts		
L1	L1 - Surface Mounted 3" Deep Low	53	According to §130.0(c)	14	747		
L2	L2 - 4' Surface Mounted Led Strip	20	According to §130.0(c)	8	157		
L3	L3 - Existing LED Track Lighting	15	According to §130.0(c)	15	225		
L4	L4 - Led Track Head ELV Dimmable	14	According to §130.0(c)	2	28		
L5	L5 - Existing Recessed LED Downlight	20	According to §130.0(c)	25	500		
L6	L6 - 6" Recessed LED Dimmable	18	According to §130.0(c)	5	87		
L7	L7 - Existing Wall Sconce Fixture	20	According to §130.0(c)	3	60		
L8	L8- Chandelier LED Light	46	According to §130.0(c)	1	46		

K3. INDOOF	CON	IDITIONED LIGHTING CONTROL O	CREDITS							
		Lighting Control Credits Schedul	e (includes all lig	nting controls install	ed in conditioned s	pace for compliance	e credit per §140.6	(a)2 and Table 140.	.6-A)	
1		2		3	4	5	6	7	8	9
Area Descrip	tion	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lig	thting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-1-Lobby	, T	Corridor Area		NA	0.00	L8	46.0	1	46	0

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance	

Report Version: NRCC-PRF-01-E-12092021-6844

Report Generated at: 2023-02-21 10:14:28

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CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2023-02-21 10:14:28

Project Name:	3415 California St TI		NRC	C-PRF-01-E	Page 12 of 17			
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nput File Name:	2849_3415 California St, San F Analysis_V8cibd19x	rancisco, CA 94118_Energy						
K3. INDOOR CO	NDITIONED LIGHTING CONTROL CI	REDITS			•			
	Lighting Control Credits Schedule	(includes all lighting controls installe	ed in conditioned	space for complianc	e credit per §140.6	(a)2 and Table 140.	6-A)	
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
			0.00 0.00					
S-3-1st Floor - Toilet	Restrooms	NA	0.00 0.00 0.00 0.00 0.00	L7	20.0	1	20	0
S-4-SCP Storage	Commercial/Industrial Storage (Warehouse)	NA	0.00 0.00 0.00 0.00 0.00	L2	78.8	4	79	0
S-5-Intake	Healthcare Facility and Hospitals (Exam/Treatment Room)	NA	0.00 0.00 0.00 0.00 0.00	L1	160.2	3	160	0
S-6-Stair	Stairwell	NA	0.00 0.00 0.00 0.00 0.00	L7	20.0	1	20	0
S-7-Lockers	Concourse and Atria Area	NA	0.00 0.00 0.00 0.00 0.00	L1	106.8	2	107	0
S-8-Hall	Lounge, Breakroom, or Waiting Area	NA	0.00 0.00 0.00 0.00 0.00	L1	267.0	5	267	0

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844

Project Name:	3415 California St TI		NRCC-PRF-01-E	Page 17 of 17	
roject Address:	3415 California St San Francisco 94118		Calculation Date/Time:	10:10, Tue, Feb	21, 2023
nput File Name:	2849_3415 California St, San Francisco, CA 941: Analysis_V8cibd19x	18_Energy			
	AUTHOR'S DECLARATION STATEMENT ate of Compliance documentation is accurate and complete	2.			
Documentation Autho	or Name: Syed P. Alam	Signa	ture: Syed Alam		
Company: InnoDez, In	nc.	Sigila	ture.		
Address: 726 Foxbroug	gh pl	Signa	ture Date: 2023-02-21		
City/State/Zip: Pleasar	nton CA 94566	CEA/	HERS Certification Identifica	tion (if applicabl	e):
Phone: 9168321752					
RESPONSIBLE PERS	ON'S DECLARATION STATEMENT				
I am eligible under Div     The energy features a	vided on this Certificate of Compliance is true and correct. Iivision 3 of the Business and Professions Code to accept re and performance specifications, materials, components, ar art 6 of the California Code of Regulations.				
<ol> <li>The building design fe plans and specifications</li> <li>I will ensure that a cor</li> </ol>	art of the California Code on Regulations.  eatures or system design features identified on this Certific  submitted to the enforcement agency for approval with ti  ompleted signed copy of this Certificate of Compliance shal  id that a completed signed copy of this Certificate of Comp	his building permit application. Il be made available with the bui	lding permit(s) issued for the bu	ilding, and made a	available to the enforcement agency for all applicable
The building design fe plans and specifications     I will ensure that a coi inspections. I understand	eatures or system design features identified on this Certific s submitted to the enforcement agency for approval with t ompleted signed copy of this Certificate of Compliance shal	his building permit application. Il be made available with the bui pliance is required to be included	lding permit(s) issued for the bu with the documentation the bu	ilding, and made a	available to the enforcement agency for all applicable
The building design fe plans and specifications 5. I will ensure that a co- inspections. I understand Responsible Envelope	eatures or system design features identified on this Certific s submitted to the enforcement agency for approval with to proper the signed copy of this Certificate of Compliance shall that a completed signed copy of this Certificate of Comp	his building permit application. Il be made available with the bui pliance is required to be included	lding permit(s) issued for the bu	ilding, and made a	available to the enforcement agency for all applicable
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4. The building design fer plans and specifications 5. I will ensure that a consistency inspections. I understand Responsible Envelope Company: Innodez Address: 726 Foxbroug City/State/Zip: Pleasar Phone: 916-813-1752 Responsible Lighting D Company: Innodez Address: 22 Chatel driv City/State/Zip: Little Rephone: 479-313-2632	eatures or system design features identified on this Certific submitted to the enforcement agency for approval with to impleted signed copy of this Certificate of Compliance shall ad that a completed signed copy of this Certificate of Comp Designer Name: Syed P. Alam  The Pl Inton CA 94566  Designer Name: Gregory Michael Dillett  Sock AR 72223	his building permit application. Il be made available with the buildince is required to be included Signa Date Title: Title:	Iding permit(s) issued for the but with the documentation the but ture: Syed Alam  Signed: 2023.02.21  PE ENGINEER  ture: Gregory Dillett  Signed: 2023.02.21  PE ENGINEER	ilding, and made a	available to the enforcement agency for all applicable the building owner at occupancy.  License #: 27087
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4. The building design fer plans and specifications 5. I will ensure that a colinspections. I understand the seponsible Envelope Company: Innodez Address: 726 Foxbroug City/State/Zip: Pleasar Phone: 916-813-1752 Responsible Lighting Design of the seponsible Lighting Design of the seponsible Company: Innodez Address: 22 Chatel driving City/State/Zip: Little Rephone: 479-313-2632 Responsible Mechanic Company: Innodez	eatures or system design features identified on this Certific submitted to the enforcement agency for approval with to impleted signed copy of this Certificate of Compliance shall did that a completed signed copy of this Certificate of Complete System P. Alam  The Designer Name: Syed P. Alam  The Designer Name: Gregory Michael Dillett  The Bock AR 72223  The Designer Name: Syed P. Alam  The Designer Name: Syed P. Alam  The Designer Name: Syed P. Alam	his building permit application. Il be made available with the buildince is required to be included Signa Date Title: Signa Date Title: Signa	Iding permit(s) issued for the but with the documentation the but ture: Syed Alam  Signed: 2023.02.21  PE ENGINEER  ture: Gregory Dillett  Signed: 2023.02.21  PE ENGINEER	ilding, and made a	available to the enforcement agency for all applicable the building owner at occupancy.  License #: 27087
4. The building design fer plans and specifications 5. I will ensure that a con inspections. I understand Responsible Envelope Company: Innodez Address: 726 Foxbroug City/State/Zip: Pleasar Phone: 916-813-1752 Responsible Lighting D Company: Innodez Address: 22 Chatel driv City/State/Zip: Little Rephone: 479-313-2632	eatures or system design features identified on this Certific submitted to the enforcement agency for approval with to multiple designed copy of this Certificate of Compliance shal and that a completed signed copy of this Certificate of Comp Designer Name: Syed P. Alam  The Property of the Certificate of Comp Designer Name: Gregory Michael Dillett  Designer Name: Gregory Michael Dillett  Designer Name: Syed P. Alam  The Property of the Certificate of Comp Designer Name: Gregory Michael Dillett  Designer Name: Syed P. Alam  The Property of the Certificate of Comp Designer Name: Syed P. Alam  The Property of the Certificate of Comp Designer Name: Syed P. Alam  The Property of this Certificate of Comp Designer Name: Syed P. Alam  The Property of this Certificate of Compliance shall be a completed as the Certificate of Comp Designer Name: Syed P. Alam  The Property of this Certificate of Compliance shall be a completed as the Certificate of Comp Designer Name: Syed P. Alam  The Property of this Certificate of Comp Designer Name: Syed P. Alam  The Property of this Certificate of Comp Designer Name: Syed P. Alam  The Property of the Certificate of Comp Designer Name: Syed P. Alam Designer Name	his building permit application. Il be made available with the buildince is required to be included Signa Date Title: Signa Date Title: Signa	Iding permit(s) issued for the but with the documentation the but ture: Syed Alam  Signed: 2023.02.21  PE ENGINEER  ture: Gregory Dillett  Signed: 2023.02.21  PE ENGINEER  ture: Syed Alam	ilding, and made a	available to the enforcement agency for all applicable the building owner at occupancy.  License #: 27087

Project Name:	3415 California St TI		NRO	CC-PRF-01-E	Page 11 of 17			
Project Address:	3415 California St San Francis	co 94118	Cald	culation Date/Time:	10:10, Tue, Feb 2:	1, 2023		
Input File Name: 2849_3415 California St, San Fra Analysis_V8cibd19x		Francisco, CA 94118_Energy						
K3. INDOOR CO	NDITIONED LIGHTING CONTROL C	REDITS						
	Lighting Control Credits Schedul	e (includes all lighting controls installe	ed in conditione	d space for complianc	e credit per §140.6	(a)2 and Table 140.	6-A)	
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Contro Credit (Watts
			0.00 0.00 0.00 0.00					
S-1-Lobby	Corridor Area	NA	0.00 0.00 0.00 0.00 0.00	L5	220.0	11	220	0
S-2-Retail	Retail Sales Area (Retail Merchandise Sales)	NA	0.00 0.00 0.00 0.00 0.00	L5	280.0	14	280	0
S-2-Retail	Retail Sales Area (Retail Merchandise Sales)	NA	0.00 0.00 0.00 0.00 0.00	L3	225.0	15	225	0
S-2-Retail	Retail Sales Area (Retail Merchandise Sales)	NA	0.00 0.00 0.00 0.00 0.00	L6	70.0	4	70	0
S-2-Retail	Retail Sales Area (Retail Merchandise Sales)	NA	0.00 0.00 0.00 0.00 0.00	L4	28.0	2	28	0
S-3-1st Floor - Toilet	Restrooms	NA	0.00 0.00 0.00	L6	17.5	1	18	0

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844

CLIENT:

ADDRESS:

3415 CALIFORNIA ST. SAN FRANCISCO, CA 94118

#### CONFIDENTIALITY STATEMENT:

ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE DESIGNER AND THE SAME MAY NOT BE

DUPLICATED, USED OR DISCLOSED WITHOUT CONSENT OF THE DESIGNER.

#### NOTES:

UNITS UNLESS STATED OTHERWISE. 2. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DESIGNER, ENGINEER OR SPECIALIST DRAWINGS AND SPECIFICATIONS. 3. THE CONTRACTOR MUST CHECK ALL DIMENSION AT SITE BEFORE COMMENCING 4. THE CONTRACTOR IS RESPONSIBLE FOR

PROVIDING ALL NECESSARY TEMPORARY SUPPORT TO THE BUILDING AND ANY

ADJACENT STRUCTURES.

1. ALL DIMENSIONS HEREIN ARE IN IMPERIAL

DESCRIPTION DATE BY 01 FOR APPROVAL

PROJECT:

LAUREL VILLAGE

00 FOR APPROVAL

TITLE:

### T24-2

PROJ. NO. PROJ. ENGR. SCALE @ 24X36: NTS DRAWING NO.

TATE OF CALIFORNIA  CALIFORNIA ENERGY COMMISSION  CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA  Electrical Power Distribution  NRCC-ELC-E  CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA  Electrical Power Distribution  NRCC-ELC-E  CALIFORNIA ENERGY COMMISSION
ERTIFICATE OF COMPLIANCE  This document is used to demonstrate compliance with mandatory requirements in §130.5, for electrical systems in newly constructed nonresidential, high-rise residential and	CERTIFICATE OF COMPLIANCE Project Name: 3415 California St TI Report Page: (Page 2 of 4)	CERTIFICATE OF COMPLIANCE Project Name: 3415 California St TI Report Page: (Page 3 of 4)
otel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or 141.0(b)2P for alterations	Project Address: 3415 California St Date Prepared: 2/21/2023	Project Address: 3415 California St Date Prepared: 2/21/2023
roject Name: 3415 California St Tl Report Page: (Page 1 of 4) roject Address: 3415 California St Date Prepared: 2/21/2023	D. EXCEPTIONAL CONDITIONS	J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
A. GENERAL INFORMATION	This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/
Project Location (city) San Francisco Cocupancy Types Within Project:	E. ADDITIONAL REMARKS  This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.	Form/Title Field Inspector
Healthcare Facility ● Office ● Retail ● Support Areas ● Warehouse ● : See Table I	F. SERVICE ELECTRICAL METERING	NRCI-ELC-01-E - Must be submitted for all buildings
. PROJECT SCOPE	This section does not apply to this project.	K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
his table includes electrical systems that are within the scope of the permit application.  01 02 03 04 05	G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING  This section does not apply to this project.	There are no Certificates of Acceptance applicable to electrical power distribution requirements.
Electrical Service Designation/Description  Scope of Work <sup>1</sup> Rating (kVA)  Rating (kVA)  Exception to §130.5(a) <sup>2</sup> System subject to CA Elec Code  Article 517 Exception to	H. VOLTAGE DROP	
Add/Alt to feeders and branch circuits 50	This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2Piii	
Only  Where required, demand response controls must be specified which are capable of receiving and automatically	01 02 03 04 05  Sheet Number for Voltage Drop Field Inspector	
Demand Response Controls responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.	Electrical Service Combined Voltage Drop on Installed Feeder/Branch Designation/Description Circuit Conductors Compliance Method Calculations Documents    Combined Voltage Drop Calculations in Construction Documents   Calculations in Construction Documents   Pass Fail   Calculations   Calcu	
OOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.	Voltage drop less than Code (Exception to Attached Code (Exception to Attached	
Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.  COMPLIANCE RESULTS	* NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.	
esults in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.	<sup>1</sup> FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".	
01 02 03 04 05	I.CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES	
Service Electrical Metering §130.5(a) (See Table F)  AND Separation for Monitoring §130.5(b) (See Table G)  AND Controlled Receptacles §130.5(d) (See Table I)  Controlled Receptacles §130.5(d) (See Table I)	This section does not apply to this project.	
Yes AND Yes AND Yes AND Yes COMPLIES		
Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-02-21 10:14:48 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance  Report Version: 2019.1.003  Schema Version: rev 20200601  Report Generated: 2023-02-21 10:14:48	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance  Report Version: 2019.1.003  Schema Version: rev 20200601  Report Generated: 2023-02-21 10:14:48
rate of california    lectrical Power Distribution   california Energy Commission   californi	STATE OF CALIFORNIA  Indoor Lighting  NDCC IT F	STATE OF CALIFORNIA  Indoor Lighting  CALIFORNIA ENERGY COMMISSION
ERTIFICATE OF COMPLIANCE NRCC-ELC-E	NRCC-LTI-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-LTI-E  This desugnment is used to demonstrate approximate with requirements in \$110.0, \$110.12(a), \$120.0, \$120.1, \$140.0, and \$141.0(b).3 for indeed lighting course using the prescription.	NRCC-LTI-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-LTI-E  Project Names  2415 Colifornia St. Til Penert Pages  (Page 2 of 9)
roject Name: 3415 California St Tl Report Page: (Page 4 of 4) roject Address: 3415 California St Date Prepared: 2/21/2023	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.  Project Name:  (Page 1 of 8)	Project Name:3415 California St TIReport Page:(Page 2 of 8)Project Address:3415 California StDate Prepared:2/21/2023
OCUMENTATION AUTHOR'S DECLARATION STATEMENT	Project Name:     3415 California St TI Report Page:     (Page 1 of 8)       Project Address:     3415 California St Date Prepared:     2/21/2023	C. COMPLIANCE RESULTS
certify that this Certificate of Compliance documentation is accurate and complete.	A. GENERAL INFORMATION	If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.
Documentation Author Signature: Syed Alam  propany:  Signature Date:	01 Project Location (city)     San Francisco     04 Total Conditioned Floor Area (ft²)     0       02 Climate Zone     3     05 Total Unconditioned Floor Area (ft²)     0	Allowed Lighting Power per §140.6(b) (Watts)  Lighting in conditioned and Conditioned and Conditioned and Conditioned Conditio
noDez, Inc.  2023.02.21  ddress: CEA/ HERS Certification (if applicable):	03 Occupancy Types Within Project (select all that apply):  06 # of Stories (Habitable Above Grade)  • Healthcare Facility • Office • Retail • Support Areas • Warehouse • : See Table I	unconditioned spaces must not be Complete Area Category Tailored Total PAF Lighting Total Adjusted   Total ≥ Total PAF Lighting Total Adjusted
26 Foxbrough pl  ty/State/Zip: Phone:		combined for compliance per $\frac{\$140.6(c)1}{(c)}$ $\frac{\$140.6(c)2}{(c)}$ $\frac{\$140.6(c)2}{(c)}$ $\frac{\$140.6(c)2}{(c)}$ $\frac{\$140.6(c)2}{(c)}$ $\frac{\$140.6(c)2}{(c)}$ $\frac{\$140.6(c)2}{(c)}$ $\frac{\$140.6(c)2}{(c)}$ $\frac{\$140.6(c)2}{(c)}$
leasanton CA 94566 9168321752  ESPONSIBLE PERSON'S DECLARATION STATEMENT	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 or	(See Table I) (See Table I) (See Table I) (See Table K) (See Table F) (See Table P)
2ertify the following under penalty of perjury, under the laws of the State of California:  1. The information provided on this Certificate of Compliance is true and correct.  2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)	<u>\$141.0(b)2</u> for alterations.  Scope of Work  Conditioned Spaces  Unconditioned Spaces	Conditioned         =         ≥         =           Unconditioned         =         ≥         =
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.	01 02 03 04 05  My Project Consists of (check all that apply): Calculation Method Area (ft²) Calculation Method Area (ft²)	Controls Compliance (See Table H for Details)  Rated Power Reduction Compliance (See Table Q for Details)  COMPLIES
<ol> <li>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.</li> <li>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</li> </ol>	□ New Lighting System □ New Lighting System - Parking Garage	D. EXCEPTIONAL CONDITIONS
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:  Gregory Dillett	☑ Altered Lighting System     Area Category Method     0     Area Category Method     0	This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
Integrity Wildrafe Diffect  Impany:  Date Signed:  2023-02-21	Total Area of Work (ft²) 0 0	E. ADDITIONAL REMARKS  This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.
ddress: License: 2 Chatel drive 21635		F. INDOOR LIGHTING FIXTURE SCHEDULE
ty/State/Zip: Phone: ttle Rock AR 72223 479-313-2632		This section does not apply to this project.
		G. MODULAR LIGHTING SYSTEMS This section does not supply to this project
		This section does not apply to this project.
Registration Number: Registration Date/Time: Registration Provider: Energysoft  CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-02-21 10:14:48	Registration Number: Registration Date/Time: Registration Provider: Energysoft  CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-02-21 10:14:48	Registration Number: Registration Date/Time: Registration Provider: Energysoft  CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-02-21 10:14:48
Schema Version: rev 20200601	Schema Version: rev 20200601	Schema Version: rev 20200601
TATE OF CALIFORNIA	STATE OF CALIFORNIA Indoor Lighting	STATE OF CALIFORNIA  Indoor Lighting
ndoor Lighting  ACC-LTI-E  CALIFORNIA ENERGY COMMISSION  ERTIFICATE OF COMPLIANCE  NRCC-LTI-E	NRCC-LTI-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-LTI-E	INCO-LIGHTING  NRCC-LTI-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-LTI-E
roject Name:  3415 California St Tl Report Page:  (Page 3 of 8)  roject Address:  3415 California St Date Prepared:  2/21/2023	Project Name: 3415 California St Tl Report Page: (Page 4 of 8) Project Address: 3415 California St Date Prepared: 2/21/2023	Project Name: 3415 California St TI Project Address: 3415 California St TI Project Address: 3415 California St TI Project Address: 3415 California St Date Prepared: 2/21/2023
. INDOOR LIGHTING CONTROLS (Not including PAFs) his table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how	H. INDOOR LIGHTING CONTROLS (Not including PAFs)  Server Electrical Mechancial Manual Evernot* Other N/A	H. INDOOR LIGHTING CONTROLS (Not including PAFs)  *NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.  13
ompliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.  uilding Level Controls	Telephone Room ON/OFF Exempt* Other N/A N/A NO U  Office Office 350 square feet or loss Manual Exempt* Other N/A	EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2  Plan Sheet Showing Daylit Zones:
01 02 03 Field Inspector	Office Office 250 square feet or less ON/OFF Exempt* Other N/A N/A NO L L  NS Storage Manual Exempt* Other N/A N/A N/A NO L L	Lobby Area < 150 SQ.FT
Mandatory Demand Response §110.12(c)  Shut-off controls §130.1(c)  Pass Fail	NS Storage Warenouse ON/OFF Exempt* Other N/A N/A NO L L  Manual Frames* Occurrency Spaces N/A N/A NO L	SCP Storage Area < 150 SQ.FT
rea Level Controls	Mezz. Toilet Restrooms ON/OFF Exempt* Occupancy Sensor N/A N/A No 🗆	Intake Connected load < 0.5W/SQ.FT
04 05 06 07 08 09 10 11 12 Primary/Sky		Stair Connected load < 0.5W/SQ.FT
Area Description  Complete Building or Area Controls Category Primary Function Area  Area Controls §130.1(a)  Area Controls §130.1(b)  Shut-Off Controls §130.1(c)  Shut-Off Controls §130.1(d)  Shut-Off Controls §130.1(d)  Systems §140.6(a)1  Field Inspector		Hall Connected load < 0.5W/SQ.FT
Pass Fail		1st Floor Toilet Area < 150 SQ.FT
Lobby Corridor Area Manual ON/OFF Exempt* Occupancy Sensor N/A N/A No 🗆		Lockers
Retail Merchandise Sales Manual ON/OFF Dimmer Occupancy Sensor N/A N/A No 🗆		Server Area < 150 SQ.FT
SCP Storage Warehouse Manual ON/OFF Exempt* Other N/A N/A NO 🗆		Office Area < 150 SQ.FT
Intake Exam/Treatment Room Manual ON/OFF Exempt* Other N/A N/A No 🗆		NS Storage Connected load < 0.5W/SQ.FT
Stair Stairwell Manual ON/OFF Exempt* Other N/A N/A No 🗆		Mezz. Toilet Area < 150 SQ.FT
Hall Concourse and Atria Manual ON/OFF Exempt* Other N/A N/A No		
1st Floor Toilet Restrooms Manual ON/OFF Exempt* Occupancy Sensor N/A N/A No		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
Lockers Lounge Breakroom or Waiting Manual ON/OFF Dimmer Other N/A N/A No 🗆		§140.6(c) or adjustments per §140.6(a) are being used .
Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-02-21 10:14:48 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-02-21 10:14:48 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-02-21 10:14:48 Schema Version: rev 20200601

CLIENT:

ADDRESS:

3415 CALIFORNIA ST. SAN
FRANCISCO, CA 94118

#### CONFIDENTIALITY STATEMENT:

ALL DRAWINGS AND WRITTEN MATERIALS

APPEARING HEREIN CONSTITUTE THE

ORIGINAL AND UNPUBLISHED WORK OF THE

DESIGNER AND THE SAME MAY NOT BE

DUPLICATED, USED OR DISCLOSED WITHOUT

CONSENT OF THE DESIGNER.

#### NOTES:

1. ALL DIMENSIONS HEREIN ARE IN IMPERIAL UNITS UNLESS STATED OTHERWISE.
2. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DESIGNER, ENGINEER OR SPECIALIST DRAWINGS AND SPECIFICATIONS.
3. THE CONTRACTOR MUST CHECK ALL DIMENSION AT SITE BEFORE COMMENCING

4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY TEMPORARY SUPPORT TO THE BUILDING AND ANY ADJACENT STRUCTURES.

O1 FOR APPROVAL 02/23 A.B

O0 FOR APPROVAL 12/22 A.B

PROJECT:

LAUREL VILLAGE

### T24-3

PROJ. NO. PROJ. ENGR. SCALE @ 24X36:

NTS

DRAWING NO. REV.

STATE OF CALIFORNIA	STATE OF CALIFORNIA	STATE OF CALIFORNIA
Indoor Lighting NRCC-LTI-E CALIFORNIA ENERGY COMMISSION	Indoor Lighting  NRCC-LTI-E  CALIFORNIA ENERGY COMMISSION	Indoor Lighting NRCC-LTI-E CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE  Project Name:  3415 California St TI Report Page:  (Page 6 of 8)	CERTIFICATE OF COMPLIANCE  Project Name:  3415 California St Ti Report Page:  (Page 7 of 8)	CERTIFICATE OF COMPLIANCE  Project Name:  3415 California St Ti Report Page:  (Page 8 of 8)
Project Address:   3415 California St   Date Prepared:   2/21/2023	Project Address:   3415 California St   Date Prepared:   2/21/2023	Project Address: 3415 California St Date Prepared: 2/21/2023
J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM	T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
This section does not apply to this project.	Selections have been made based on information provided in this document. If any selection 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 at	I certify that this Certificate of Compliance documentation is accurate and complete.   Documentation Author Name:   Documentation Author Signature: Syed Alam
K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE  This section does not apply to this project.	https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/  Form/Title  Field Inspector	Syed P. Alam  Company:  Signature Date:
L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY	NRCI-LTI-01-E - Must be submitted for all buildings	InnoDez, Inc.  Address: CEA/ HERS Certification (if applicable):
This section does not apply to this project.	U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	726 Foxbrough pl  City/State/Zip: Pleasanton CA 94566  Pleasanton CA 94566
M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING	There are no NRCA forms required for this project.	RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:
This section does not apply to this project.		1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS  This section does not apply to this project.		3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE		<ol> <li>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.</li> <li>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</li> </ol>
This section does not apply to this project.		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:  Gregory Michael Dillett  Gregory Dillett
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))  This section does not apply to this project.		Company: Innodez Date Signed: 2023-02-21
		Address: License: 22 Chatel drive 21635
Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS  This section does not apply to this project.		City/State/Zip: Phone: Little Rock AR 72223 479-313-2632
R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS		
This section does not apply to this project.		
S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)  This section does not apply to this project		
This section does not apply to this project.		
Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-02-21 10:14:48 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2023-02-21 10:14:48	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-02-21 10:14:48 Schema Version: rev 20200601
STATE OF CALIFORNIA  Outdoor Lighting	STATE OF CALIFORNIA  Outdoor Lighting	STATE OF CALIFORNIA  Outdoor Lighting
NRCC-LTO-E CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-LTO-E	NRCC-LTO-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-LTO-E	NRCC-LTO-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  NRCC-LTO-E
Project Name: 3415 California St Ti Report Page: (Page 1 of 6)	Project Name:     3415 California St TI     Report Page:     (Page 2 of 6)       Project Address:     3415 California St Date Prepared:     2/21/2023	Project Name:     3415 California St TI     Report Page:     (Page 3 of 6)       Project Address:     3415 California St     Date Prepared:     2/21/2023
Project Address: 3415 California St Date Prepared: 2/21/2023	Tojact tunicus:	Topac nation 2 Section as Section 2
A. GENERAL INFORMATION  O1 Project Location (city) San Francisco  O4 Total Illuminated Hardscape Area (ft²) 0	C. COMPLIANCE RESULTS  Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer	F. OUTDOOR LIGHTING FIXTURE SCHEDULE  For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces
O2 Climate Zone 3 Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):	to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.  Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L  Compliance Results	covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).
□ LZ-0: Very Low - Undeveloped Parkland □ LZ-2: Moderate - Rural Areas □ LZ-4: High - Must be reviewed by CA Energy Commission for Approval □ LZ-1: Low - Developed Parkland □ LZ-3: Moderately High - Urban Areas	01 02 03 04 05 06 07 08 09	Designed Wattage:  01 02 03 04 05 06 07 08 09 10
B. PROJECT SCOPE	General Hardscape Hardscape Application + Frontage + Ornamental Sales Frontage + Ornamental Allowapes = Total Allowed > Total Actual	Cutoff Reg. > Field
This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or	Allowance \$140.7(d)1 (See Table I) (See Table II) (See Table II) (See Table III) (Se	Name or Item Tag  Complete Luminaire Description  Watts per luminaire <sup>1,2</sup> Watts per luminaire <sup>1,2</sup> Wattage determined  Watts per luminaires <sup>2</sup> Status <sup>3</sup> Total number   Luminaire   Excluded per   Status <sup>3</sup> Design Watts   6,200 initial lumen output   5130.2(b) 4   Pass   Fail
§141.0(b)2L for alterations.  My Project Consists of:	0 + + + + OR = 0 ≥ 0 COMPLIES	Total Design Watts: 0
01 02 New Lighting System Must Comply with Allowances from §140.7	Cutoff Compliance (See Table G for Details)  Controls Compliance (See Table H for Details)  COMPLIES	* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.  EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)
Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? Yes No	D. EXCEPTIONAL CONDITIONS	<sup>1</sup> FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per <u>§130.0(c)</u> <sup>2</sup> For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
03 04 05  % of Existing Luminaires Being Altered 1 Sum Total of Luminaires Being Added or Altered Calculation Method	This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	<sup>3</sup> Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires which are being removed and reinstalled as part of
✓ < 10%	E. ADDITIONAL REMARKS	the project scope.  4 Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by \$130.2(b)
100 TNO 123. 76 by Existing Edinmaries Being Arctica - (Sum Total by Edinmaries Being Added of Artered 7 Existing Edinmaries Within the Scope by the Fernite Application) x 100.	This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	G. CUTOFF REQUIREMENTS (BUG)
		This section does not apply to this project.
		H. OUTDOOR LIGHTING CONTROLS  This section does not apply to this project.
		I. LIGHTING POWER ALLOWANCE (per §140.7)
		This section does not apply to this project.
		J. LIGHTING ALLOWANCE: PER APPLICATION  This section does not apply to this project
		This section does not apply to this project.
Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-02-21 10:14:48 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-02-21 10:14:48 Schema Version: rev 20200601	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-02-21 10:14:48 Schema Version: rev 20200601
STATE OF CALIFORNIA	STATE OF CALIFORNIA	STATE OF CALIFORNIA
Outdoor Lighting NRCC-LTO-E CALIFORNIA ENERGY COMMISSION	Outdoor Lighting NRCC-LTO-E CALIFORNIA ENERGY COMMISSION	Outdoor Lighting NRCC-LTO-E  CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE  Project Name:  3415 California St Ti Report Page:  (Page 4 of 6)	CERTIFICATE OF COMPLIANCE Project Name:  3415 California St Ti Report Page: (Page 5 of 6)	CERTIFICATE OF COMPLIANCE  Project Name:  3415 California St Ti Report Page:  (Page 6 of 6)
Project Address: 3415 California St Date Prepared: 2/21/2023	Project Address: 3415 California St Date Prepared: 2/21/2023	Project Address: 3415 California St Date Prepared: 2/21/2023
K. LIGHTING ALLOWANCE: SALES FRONTAGE		
	P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
This section does not apply to this project.	Selections have been made based on information provided in this document. If any selection 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 must be completed through an Acceptance Test Technician Certification	I certify that this Certificate of Compliance documentation is accurate and complete.
L. LIGHTING ALLOWANCE: ORNAMENTAL	Selections have been made based on information provided in this document. If any selection 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 must be completed through an Acceptance Test Technician Certification  Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html  Form/Title  Systems/Spaces To Be Field Inspector	I certify that this Certificate of Compliance documentation is accurate and complete.  Documentation Author Name: Syed P. Alam Company: Signature Date:
L. LIGHTING ALLOWANCE: ORNAMENTAL This section does not apply to this project.	Selections have been made based on information provided in this document. If any selection 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 must be completed through an Acceptance Test Technician Certification  Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html  Form/Title  Systems/Spaces To Be Field Verified  Pass Fail	I certify that this Certificate of Compliance documentation is accurate and complete.  Documentation Author Name: Syed P. Alam  Company: InnoDez, Inc.  Address:  CEA/ HERS Certification (if applicable):
L. LIGHTING ALLOWANCE: ORNAMENTAL	Selections have been made based on information provided in this document. If any selection 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 must be completed through an Acceptance Test Technician Certification  Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html  Form/Title  Systems/Spaces To Be Field Inspector	I certify that this Certificate of Compliance documentation is accurate and complete.  Documentation Author Name: Syed P. Alam  Company: InnoDez, Inc.  Address: 726 Foxbrough pl  City/State/Zip: Phone:
L. LIGHTING ALLOWANCE: ORNAMENTAL This section does not apply to this project.  M. LIGHTING ALLOWANCE: PER SPECIFIC AREA	Selections have been made based on information provided in this document. If any selection 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 must be completed through an Acceptance Test Technician Certification  Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html  Form/Title  Systems/Spaces To Be Field  Verified  Pass  Fail  NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <=	I certify that this Certificate of Compliance documentation is accurate and complete.  Documentation Author Name: Syed P. Alam  Company: InnoDez, Inc.  Address: 726 Foxbrough pl  Documentation Author Signature: Syed Alam Signature Date: 2023.02.21  CEA/ HERS Certification Identification (if applicable):
L. LIGHTING ALLOWANCE: ORNAMENTAL  This section does not apply to this project.  M. LIGHTING ALLOWANCE: PER SPECIFIC AREA  This section does not apply to this project.	Selections have been made based on information provided in this document. If any selection 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 must be completed through an Acceptance Test Technician Certification  Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html  Form/Title  Systems/Spaces To Be Field  Verified  Pass  Fail  NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <=	Certify that this Certificate of Compliance documentation is accurate and complete.   Documentation Author Name: Syed P. Alam
L. LIGHTING ALLOWANCE: ORNAMENTAL  This section does not apply to this project.  M. LIGHTING ALLOWANCE: PER SPECIFIC AREA  This section does not apply to this project.  N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)  This table includes all existing luminaires being replaced to establish the lighting power allowance per §141.0(b)2Lii or §141.0(b)2Liii. Existing luminaires that are remaining or being moved should NOT be included.  Existing Conditions Wattage:	Selections have been made based on information provided in this document. If any selection 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 must be completed through an Acceptance Test Technician Certification  Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html  Form/Title  Systems/Spaces To Be Field  Verified  Pass  Fail  NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <=	I certify that this Certificate of Compliance documentation is accurate and complete.  Documentation Author Name: Syed P. Alam  Company: InnoDez, Inc.  Address: 726 Foxbrough pl  City/State/Zip: Pleasanton CA 94566  RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:
L. LIGHTING ALLOWANCE: ORNAMENTAL  This section does not apply to this project.  M. LIGHTING ALLOWANCE: PER SPECIFIC AREA  This section does not apply to this project.  N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)  This table includes all existing luminaires being replaced to establish the lighting power allowance per §141.0(b)2Lii or §141.0(b)2Liii. Existing luminaires that are remaining or being moved should NOT be included.  Existing Conditions Wattage:  01 02 03 04 05 06 07  Watts per How is Wattage # of Luminaires   Field inspector	Selections have been made based on information provided in this document. If any selection 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 must be completed through an Acceptance Test Technician Certification  Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html  Form/Title  Systems/Spaces To Be Field  Verified  Pass  Fail  NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <=	Certify that this Certificate of Compliance documentation is accurate and complete.
L. LIGHTING ALLOWANCE: ORNAMENTAL  This section does not apply to this project.  M. LIGHTING ALLOWANCE: PER SPECIFIC AREA  This section does not apply to this project.  N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)  This table includes all existing luminaires being replaced to establish the lighting power allowance per §141.0(b)2Lii or §141.0(b)2Liii, Existing luminaires that are remaining or being moved should NOT be included.  Existing Conditions Wattage:  01 02 03 04 05 06 07  Watts per How is Wattage # of Luminaires Field Inspector	Selections have been made based on information provided in this document. If any selection 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 must be completed through an Acceptance Test Technician Certification  Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html  Form/Title  Systems/Spaces To Be Field  Verified  Pass  Fail  NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <=	Certify that this Certificate of Compliance documentation is accurate and complete.
L. LIGHTING ALLOWANCE: ORNAMENTAL  This section does not apply to this project.  M. LIGHTING ALLOWANCE: PER SPECIFIC AREA  This section does not apply to this project.  N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)  This table includes all existing luminaires being replaced to establish the lighting power allowance per \$141.0(b)2Lii or \$141.0(b)2Liii. Existing luminaires that are remaining or being moved should NOT be included.  Existing Conditions Wattage:  O1 O2 O3 O4 O5 O6 O7  Name or Item Tag Complete Luminaire Description Watts per luminaire How is Wattage determined How is Wattage determined Being Replaced Total Existing Watts  Total Existing Watts  Allowance per \$141.0(b)2Li:	Selections have been made based on information provided in this document. If any selection 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 must be completed through an Acceptance Test Technician Certification  Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html  Form/Title  Systems/Spaces To Be Field  Verified  Pass  Fail  NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <=	Certify that this Certificate of Compliance documentation is accurate and complete.
L. LIGHTING ALLOWANCE: ORNAMENTAL  This section does not apply to this project.  M. LIGHTING ALLOWANCE: PER SPECIFIC AREA  This section does not apply to this project.  N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)  This table includes all existing luminaires being replaced to establish the lighting power allowance per \$141.0(b)2Lii or \$141.0(b)2Lii existing luminaires that are remaining or being moved should NOT be included.  Existing Conditions Wattage:  01 02 03 04 05 06 07  Name or Item Tag Complete Luminaire Description Watts per luminaires How is Wattage # of Luminaires Being Replaced Existing Watts  Total Existing Watts  Total Existing Watts	Selections have been made based on information provided in this document. If any selection 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 must be completed through an Acceptance Test Technician Certification  Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html  Form/Title  Systems/Spaces To Be Field  Verified  Pass  Fail  NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <=	Certify that this Certificate of Compliance documentation is accurate and complete.
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CLIENT:

ADDRESS: 3415 CALIFORNIA ST. SAN FRANCISCO, CA 94118

#### CONFIDENTIALITY STATEMENT:

ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE DESIGNER AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT CONSENT OF THE DESIGNER.

#### NOTES:

1. ALL DIMENSIONS HEREIN ARE IN IMPERIAL UNITS UNLESS STATED OTHERWISE.

2. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DESIGNER, ENGINEER OR SPECIALIST DRAWINGS AND SPECIFICATIONS. 3. THE CONTRACTOR MUST CHECK ALL

DIMENSION AT SITE BEFORE COMMENCING 4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY TEMPORARY

SUPPORT TO THE BUILDING AND ANY ADJACENT STRUCTURES.

D. DESCRIPTION	DATE	BY
FOR APPROVAL	02/23	A.B
FOR APPROVAL	12/22	A.B
	FOR APPROVAL	FOR APPROVAL 02/23

PROJECT:

LAUREL VILLAGE TITLE:

## T24-4

PROJ. NO. PROJ. ENGR. SCALE @ 24X36: NTS DRAWING NO.

Domestic Water Heating System  NECC-PLBE This document is used to demonstrate compliance for nonresidential occupancies with requirements in \$110.1, \$110.3, \$120.3, and \$140.5, and with requirements in \$161.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hatel/motel occupancies compliance is demonstrated with requirements in \$110.1, \$110.3, \$120.3, \$150.3, \$150.3, \$150.3, \$150.0, and \$150.1(c)B, and with requirements is \$150.2 for additions.  Project Name:  \$1415 California \$1] Date Prepared:  \$1425 California \$1] Date Prepared:  \$1425 California \$1] Date Prepared:  \$1426 California \$1] Date Prepared:  \$1426 California \$1] Date Prepared:  \$1426 California \$1] Date Prepared:  \$1406 California \$1,000 California	Domestic Water Heating System  NRCC-PLB-E  Project Name: 3415 California St Ti Report Page: (Page 2 of 6)  Project Address: 3415 California St To Date Prepared: 2/71/2023  C. COMPLIANCE RESULTS  Table C will indicate if the project data input into the compliance document is compliant for guidence.  O1 02 03 04  Domestic Hot Water Equipment Distribution Systems Controls  Table F Table G Table H Compliance Results  Table F System Of System Compliance Of System System Compliance Of System S	Domestic Water Heating System  NRCC-PIB-E Project Name:  3415 California StT] Report Page:  Project Name:  3415 California StT] Report Page:  Project Address:  3415 California StD Date Prepand:  Project Address:  7217/2023  F. DOMESTIC HOT WATER EQUIPMENT  This table is used to demonstrate compliance with mandatory equipment requirements in \$110.1 and \$110.3 For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in \$150.1CB must also be demonstrated and with \$150.2 for addition and alteration scopes.  Equipment Schedule: Individual Systems  01  02  03  04  05  06  Name or Item Tag  Equipment Type  Volume (gall)  Max GPM/ First Hour Rating (FER)  A. Q. S. MITH ENSB-30  Residential-Duty Commercial Electric Instantaneous (12-58.6kW)  Instantaneous (12-58.6kW)  Project Address:  Ves  No Not Applicable  Ves  No Not Applicable  Ves  No Not Applicable  Ves  No Not Applicable  Definition and alteration scopes.  Rated Uniform Energy Factor (UEF)¹  Rated Uniform Energy Factor (UEF)¹  O 8  O 8  O 8  O 8  O 8  O 8  O 8  O
Registration Number: Registration Date/Time: Registration Provider: Energysoft  CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-02-21 10:14:48  State of California  Domestic Water Heating System  NRCC-PLB-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  Project Name: 3415 California St T  Report Page: (Page 4 of 6) Project Address: 3415 California St Date Prepared: 2/21/2023	Registration Number: Registration Date/Time: Registration Provider: Energysoft  CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-02-21 10:14:48  STATE OF CALIFORNIA  Domestic Water Heating System  NRCC-PLB-E  CALIFORNIA ENERGY COMMISSION  CERTIFICATE OF COMPLIANCE  Project Name: 3415 California St T  Report Page: (Page 5 of 6)  Project Address: 3415 California St T  Date Prepared: 2/21/2023	Registration Number:  CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance  Report Version: 2019.1.003 Schema Version: rev 20200601  STATE OF CALIFORNIA  Domestic Water Heating System  NRCC-PLB-E  CERTIFICATE OF COMPLIANCE  Project Name:  3415 California St T  Report Page:  (Page 6 of 6) Project Address:  3415 California St Date Prepared:  2/21/2023
G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM  This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in \$120.3 and \$140.5. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements \$110.3(c), \$120.3, \$150.0, \$150.1  Mandatory Pipe Insulation All Occupancies    For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per \$120.3:   Recirculating system piping, including supply and return piping of the water heater   The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system   Pipes that are externally heated   Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per \$120.3(b) and \$150.0(i)3    TABLE 120.3-A PIPE INSULATION THICKNESS   Nominal Pipe Diameter (in)	H. DOMESTIC HOT WATER CONTROLS  This table is used to demonstrate compliance with control requirements in \$110.3 for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is also demonstrated with requirements in \$150.1(c)8.  Yes No Applicable  Yes No Applicable  Construction documents require manufacturer certification that service water heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per \$110.3(a).  Description of the systems with capacity > 167,000 BTUH equipped with outlet temperature controls per \$110.3(c)1 unless covered by California Plumbing Code 613.0.  Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per \$110.3(c)2 unless systems serving multiple dwelling units, design includes automatic pump controls per \$150.1(c)88ii, or \$150.2 for additions or alterations.  For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per \$150.1(c)8.  For replacement single heat pump water heaters serving individual dwelling units in climate zone 1-15, design includes communication interface that meets demand responsive control requirements of \$110.12(a) per \$150.2(b)1Hiii.	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT  I certify that this Certificate of Compliance documentation is accurate and complete.  Documentation Author Signature: Syed Alam  Company: InnoDez, Inc. Address:  726 Foxbrough pl  City/State/Zip: Pleasanton CA 94566  RESPONSIBLE PERSON'S DECLARATION STATEMENT  I certify the following under penalty of perjury, under the laws of the State of California:  1. The information provided on this Certificate of Compliance is true and correct.  2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.  4. The building design features and perfeatures devices for the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the building permit(s) issued for the building and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building own
Registration Number: Registration Date/Time: Registration Provider: Energysoft  CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2023-02-21 10:14:48  Schema Version: rev 20200601  Attachment NRB	Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/  Form/Title  Field Inspector Pass Fail NRCI-PLB-01-E - Must be submitted for all buildings	Registration Number:  Capacity Standards - 2019 Nonresidential Compliance  Report Version: 2019.1.003  Report Generated: 2023-02-21 10:14:48  Report Standards - 2019 Nonresidential Compliance  Report Version: rev 20200601

ENGINEER/ARCHITECT NAME SYED P. ALAM  Ensuring the completion of installation documentation as direct responsibility of the undersigned. Installation docur	
performing the installation. Acceptance testing must be performing needed. Verification testing must be completed by shall be completed as per Administrative Bulletin 093 (AB	a certified HERS rater. Green Building Attachment E
In accordance with the requirements of the 2019 Californi documentation is required for the <b>building</b> elements in the	
1. Installation	
Envelope	Process
☑ NRCI-ENV-01-E Envelope (IB35)	□ NRCA-PRC-01-F Compressed Air Systems (AB15)
Mechanical	□ NRCA-PRC-02-F Commercial Kitchen Exhaust (AB16)
☑ NRCI-MCH-01-E Mechanical (IB36)	□ NRCA-PRC-03-F Parking Garage Exhaust (AB17)
Process  □ NRCI-PRC-01-E Covered Processes (IB37)	□ NRCA-PRC-04-F Refrigerated Warehouse – Evaporator Fan Controls (AB18)
2. Acceptance Envelope	□ NRCA-PRC-05-F Refrigerated Warehouse – Evaporative Condenser Controls (AB19)
<ul> <li>✓ NRCA-ENV-02-F Fenestration Acceptance (AB1)</li> <li>□ NRCA-ENV-03-F Daylighting Design PAF Acceptance (AB25)</li> </ul>	□ NRCA-PRC-06-F Refrigerated Warehouse – Air-cooled Condenser Controls (AB20)
Mechanical  ☑ NRCA-MCH-02-A Outdoor Air (AB2)	□ NRCA-PRC-07-F Refrigerated Warehouse – Variable Speed Compressor (AB21)
✓ NRCA-MCH-03-A Constant Volume Single Zone HVAC (AB3)	□ NRCA-PRC-08-F Refrigerated Warehouse – Electric Resistance Underslab Heating System (AB22)
□ NRCA-MCH-04-H HERS Air Distribution Duct Leakage Testing (AB4)	□ NRCA-PRC-12-F Elevator Lighting & Ventilation Controls (AB23)
□ NRCA-MCH-05-A Air Economizer Controls (AB5)	□ NRCA-PRC-13-F Escalators & Moving Walkways Speed Controls (AB24)
□ NRCA-MCH-06-A Demand Control Ventilation (DVC) (AB6)	□ NRCA-PRC-14-F Lab Exhaust Ventilation System (AB27)
□ NRCA-MCH-07-A Supply Fan Variable Flow Controls (VFC) (AB7)	□ NRCA-PRC-15-F Fume Hood Automatic Sash Closure System (AB28)
□ NRCA-MCH-11-A Automatic Demand Shed Controls (AB8)	□ NRCA-PRC-16-F Adiabatic Condensers and Condenser Fan Motor
□ NRCA-MCH-12-A Fault Detection & Diagnostics for DX Units (AB9)	Variable Speed Control (AB29)
✓ NRCA-MCH-13-A Automatic Fault Detection & Diagnostics for Air Handling & Zone Terminal Units (AB10)	3. Verification  Mechanical
□ NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Test (AB11)	□ NRCV-MCH-04-H HERS Duct Leakage Diagnostic Test (VB55)
□ NRCA-MCH-15-A Thermal Energy Storage (TES) Systems (AB12)	□ NRCV-MCH-024-H HERS Enclosure Air Leakage Worksheet (VB61)
□ NRCA-MCH-16-A Supply Air Temperature Reset Controls(AB13)	□ NRCV-MCH-027-H HERS IAQ (VB62)
□ NRCA-MCH-18-A Energy Management Control System (AB14)	☐ NRCV-MCH-032-H HERS Local Mechanical Exhaust (VB63)
□ NRCA-MCH-19-A Occupied Standby Acceptance (AB26)	4. Green Building (For New Construction and Major Alterations)
□ NRCA-MCH-20-H Multifamily Ventilation (AB30)	☐ Green Building Attachment E (GBC1)
□ NRCA-MCH-21-H Multifamily Envelope (AB31)	
Required information:	
Prepared by: SYED P. ALAM	Date: 2023.02.24
Engineer/Architect of Record Signa	ature
Fax: Email: sys	dalam44@yahoo.com
Review by: DBI Engineer or Plan Checker	Phone: (628) 652 -
APPROVAL (Based on submitted reports)	

or, dbi.energyinspections@sfgov.org

TITLE-24 NON-RESIDENTIAL ENERGY/GREEN INSPECTION (BUILDING)

A COPY OF THIS DOCUMENT SHALL BE KEPT WITH THE APPROVED DRAWING SET

# TITLE-24 NON-RESIDENTIAL ENERGY INSPECTION (PLUMBING)

A COPY OF THIS DOCUMENT SHALL BE KEPT WITH THE APPROVED DRAWING SET

JOB ADDRESS 3415 California St. San Francisco APPLICATION NO. 202202178229 ADDENDUM NO. PHONE NO. 916-813-1752

Ensuring the completion of installation documentation as well as the required acceptance/verification testing is the direct responsibility of the undersigned. Installation documentation must be completed by the contractor performing the installation. Acceptance testing must be performed by an individual licensed to perform the specific testing needed. Verification testing must be completed by a certified HERS rater.

In accordance with the requirements of the 2019 California Energy Code, the following documentation is required for the plumbing work in this project:

1. Installation

2. Verification

Plumbing

NRCI-PLB-01-E Plumbing (IP10)

NRCV-PLB-21-H High Rise Residential/Hotel/Motel Central Hot Water

NRCV-PLB-21-E High Rise Residential/Hotel/Motel Central Hot Water

□ NRCI-PLB-02-E High Rise Residential/Hotel/Motel Central Hot Water System Distribution (IP11) □ NRCI-PLB-03-E High Rise Residential/Hotel/Motel Single Dwelling Unit Hot Water System Distribution (IP12) □ NRCI-PLB-21-H HERS High Rise Residential/Hotel/Motel Central hot Water System Distribution (IP13) □ NRCI-PLB-22-H HERS High Rise Residential/Hotel/Motel Single Dwelling Unit Hot Water System Distribution (IP13) □ NRCI-PLB-22-H HERS High Rise Residential/Hotel/Motel Single Dwelling Unit Hot Water System Distribution (IP14)

□ NRCI-PLB-22-H HERS High Rise Residential/Hotel/Motel Si Dwelling Unit Hot Water System Distribution Solar □ NRCI-STH-01-E Solar Water Heating System (IP15) 2. Acceptance

aust Ventilation System (AB27)

Mechanical

□ NRCA-MCH-08-A Valve Leakage Test (AP1)

□ NRCA-MCH-09-A Supply Water Temperature Reset Controls (AP2)

□ NRCA-MCH-10-A Hydronic System Variable Flow Controls (AP3)

□ NRCA-MCH-17-A Condenser Water Temperature Reset Controls (AP4)

Page 2 of 2

Required information:

Prepared by: SYED P. ALAM Engineer/Architect of Record Signature

Fax: Email: Syedalam44@yahoo.com

Review by: DBI Engineer or Plan Checker

APPROVAL (Based on submitted reports)

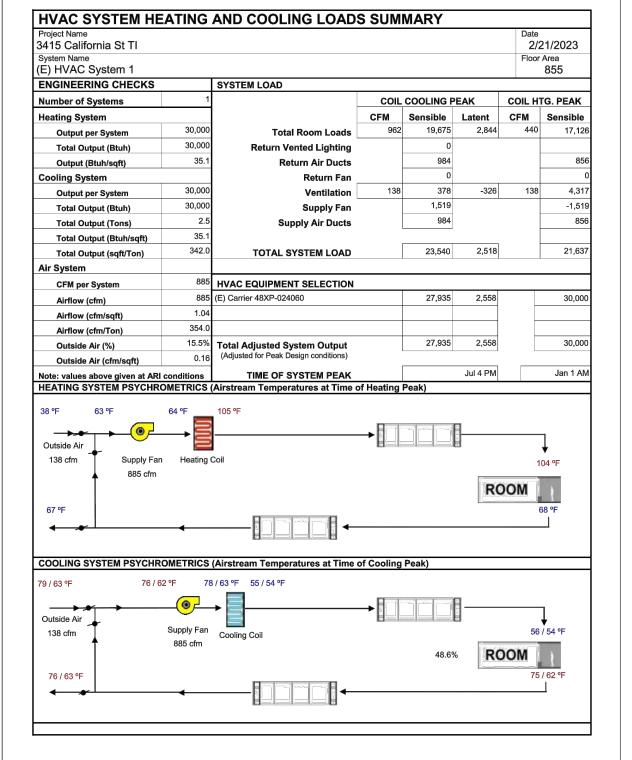
DBI Engineer or Plan Checker

ROVAL (Based on submitted reports)

DBI Building Inspector or Energy Inspection Services Staff

QUESTIONS ABOUT TITLE-24 ENERGY INSPECTION SHOULD BE DIRECTED TO: Energy Inspection Services 628) 652-3407; or, dbi.energyinspections@sfgov.org

Page 2 of 2



oject Name 115 California St Tl						Date 2/2	21/2023
System Name						Floor	
N) HVAC System							918
ENGINEERING CHECKS		SYSTEM LOAD					
Number of Systems	1	<u> </u>	COIL	COOLING P	EAK	COIL HT	G. PEAK
Heating System			CFM	Sensible	Latent	CFM	Sensible
Output per System	30,000	Total Room Loads	1,166	23,273	4,038	452	17,502
Total Output (Btuh)	30,000	Return Vented Lighting		0			
Output (Btuh/sqft)	32.7	Return Air Ducts		1,164			875
Cooling System		Return Fan		0			C
Output per System	30,000	Ventilation	233	131	-1,787	233	7,240
Total Output (Btuh)	30,000	Supply Fan		1,519			-1,519
Total Output (Tons)	2.5	Supply Air Ducts		1,164			875
Total Output (Btuh/sqft)	32.7						
Total Output (sqft/Ton)	367.3	TOTAL SYSTEM LOAD		27,249	2,251		24,974
Air System							
CFM per System	730	HVAC EQUIPMENT SELECTION					
Airflow (cfm)	730	(N) Carrier 48XP-024060		28,493	2,340		30,000
Airflow (cfm/sqft)	0.80						
Airflow (cfm/Ton)	292.0						
Outside Air (%)	31.8%	Total Adjusted System Output		28,493	2,340		30,000
Outside Air (cfm/sqft)	0.25	(Adjusted for Peak Design conditions)					
Note: values above given at ARI	conditions	TIME OF SYSTEM PEAK			Sep 3 PM		Jan 1 AM
HEATING SYSTEM PSYCHRO	OMETRICS	Airstream Temperatures at Time o	f Heating I	Peak)			
38 °F 58 °F	60 °F	105 °F					
				1 1 1	3		
	→ 📜		<b>→</b> [7]				7
Outside Air							1
Outside Air	Unating.	Call					<b>↓</b>
233 cfm Supply Fan	Heating	Coil				10	↓ 04 °F
<b>→</b>	Heating	Coil			B		↓ 04 °F
233 cfm Supply Fan	Heating	<b> </b> Coil			RO	OOM	↓ 04 °F
233 cfm Supply Fan	Heating	Coil			RO	ООМ	04 °F
233 cfm Supply Fan 730 cfm	Heating	Coil			RO	ООМ	1
233 cfm Supply Fan 730 cfm	Heating	Coil			RO	ООМ	1
233 cfm Supply Fan 730 cfm 67 °F	<b>-</b>		of Cooling	Peak	RC	ООМ	1
233 cfm Supply Fan 730 cfm 67 °F  COOLING SYSTEM PSYCHR	<b>→</b>	(Airstream Temperatures at Time o	of Cooling	Peak)	RC	ООМ	1
233 cfm Supply Fan 730 cfm 67 °F	<b>→</b>		of Cooling	Peak)	RC	ООМ	1
233 cfm Supply Fan 730 cfm 67 °F  COOLING SYSTEM PSYCHR	<b>→</b>	(Airstream Temperatures at Time o	of Cooling	Peak)	RC	ООМ	1
233 cfm Supply Fan 730 cfm 67 °F  COOLING SYSTEM PSYCHR	OMETRICS 3 °F 75	(Airstream Temperatures at Time o	of Cooling	Peak)	RC	ООМ	1
233 cfm Supply Fan 730 cfm 67 °F COOLING SYSTEM PSYCHR	OMETRICS 3 °F 79  Supply Fan	(Airstream Temperatures at Time o	of Cooling	Peak)	RC	OOM	1
233 cfm Supply Fan 730 cfm  67 °F  COOLING SYSTEM PSYCHR  77 / 61 °F  77 / 6	OMETRICS 3 °F 79	(Airstream Temperatures at Time of 163 °F 55 / 54 °F	of Cooling			<b>DOM</b> 6	58°F
233 cfm Supply Fan 730 cfm  67 °F  COOLING SYSTEM PSYCHR  77 / 61 °F  77 / 6	OMETRICS 3 °F 79  Supply Fan	(Airstream Temperatures at Time of 163 °F 55 / 54 °F	of Cooling	Peak) 51.1%		OOM	58°F
233 cfm Supply Fan 730 cfm  67 °F  COOLING SYSTEM PSYCHR  77 / 61 °F  77 / 6	OMETRICS 3 °F 79  Supply Fan	(Airstream Temperatures at Time of 163 °F 55 / 54 °F	of Cooling			56 DOM	58°F
233 cfm Supply Fan 730 cfm  67 °F  COOLING SYSTEM PSYCHR  77 / 61 °F  77 / 6  Outside Air 233 cfm	OMETRICS 3 °F 79  Supply Fan	(Airstream Temperatures at Time of 163 °F 55 / 54 °F	of Cooling			56 DOM	58 °F

CLIENT:

ADDRESS:

3415 CALIFORNIA ST. SAN

FRANCISCO, CA 94118

#### CONFIDENTIALITY STATEMENT:

ALL DRAWINGS AND WRITTEN MATERIALS

APPEARING HEREIN CONSTITUTE THE

ORIGINAL AND UNPUBLISHED WORK OF THE

DESIGNER AND THE SAME MAY NOT BE

DUPLICATED, USED OR DISCLOSED WITHOUT CONSENT OF THE DESIGNER.

#### NOTES:

ALL DIMENSIONS HEREIN ARE IN IMPERIAL UNITS UNLESS STATED OTHERWISE.
 THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DESIGNER, ENGINEER OR SPECIALIST DRAWINGS AND SPECIFICATIONS.
 THE CONTRACTOR MUST CHECK ALL

DIMENSION AT SITE BEFORE COMMENCING WORK.

4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY TEMPORARY SUPPORT TO THE BUILDING AND ANY

ADJACENT STRUCTURES.

O1 FOR APPROVAL 02/23 A.B

O0 FOR APPROVAL 12/22 A.B

PROJECT:

TITLE:

LAUREL VILLAGE

### T24-5

PROJ. NO. PROJ. ENGR. SCALE @ 24X36:

NTS

DRAWING NO. REV.