ELECTRICAL GENERAL NOTES ELECTRICAL, DATA, & AUDIO NOTES: HOME OWNER SHALL DO A WALK-THRU WITH RELEVANT INSTALLERS TO VERIFY THE EXACT LOCATION FOR OUTLETS, LIGHTS, SWITCHES, CABLE, DATA, PHONE, AUDIO, ETC ELECTRICAL NOTES: 1 ELECTRICAL RECEPTACLES IN BATHROOMS, KITCHENS AND GARAGES SHALL BE G.F.I. OR G.F.I.C. PER 2020 NATIONAL ELECTRICAL CODE REQUIREMENTS. 2 PROVIDE ONE SMOKE DETECTOR IN EACH ROOM AND ONE IN EACH CORRIDOR ACCESSING BEDROOMS. CONNECT SMOKE DETECTORS TO HOUSE POWER AND INTER-CONNECT SMOKE DETECTORS SO THAT, WHEN ANY ONE 3 CIRCUITS SHALL BE VERIFIED WITH HOME OWNER PRIOR TO WIRE INSTALLATION 4 FINAL SWITCHES FOR TIMERS AND DIMMERS SHALL BE VERIFIED WITH HOME OWNER 5 FIXTURES TO BE SELECTED BY HOME OWNER. VIDEO: 1 LOCATE JACKS AS INDICATED IN THE PLAN; INSTALL DATA / CABLE PANEL IN LOCATIONS SPECIFIED BY CUSTOMER. SYSTEM TO BE APPROVED BY HOME OWNER. DATA / CABLE: - LOCATE DATA JACKS EQUIPMENT IN SPECIFIED LOCATION BY AND APPROVED BY HOME OWNER - REF NEC: 410.10(D) BATHTUB AND SHOWER AREAS. A LUMINAIRE INSTALLED IN A BATHTUB OR SHOWER AREA SHALL MEET ALL OF THE FOLLOWING REQUIREMENTS 1. NO PARTS OF CORD-CONNECTED LUMINAIRES, CHAIN-, CABLE-, OR CORD-SUSPENDED LUMINAIRES, LIGHTING TRACK, PENDANTS, OR CEILING-SUSPENDED (PADDLE) FANS SHALL BE LOCATED WITHIN A ZONE MEASURED 900 THRESHOLD. THIS ZONE IS ALL-ENCOMPASSING AND INCLUDES THE SPACE DIRECTLY OVER THE TUB OR SHOWER STALL. . LUMINAIRES LOCATED WITHIN THE ACTUAL OUTSIDE DIMENSION OF THE BATHTUB OR SHOWER TO A HEIGHT OF 2.5 M (8 FT) VERTICALLY FROM THE TOP OF THE BATHTUB RIM OR SHOWER THRESHOLD SHALL BE MARKED SUI SHOWER SPRAY SHALL BE MARKED SUITABLE FOR WET LOCATIONS. - REF NEC 422.5(A): GFCI PROTECTION OUTLET REQ. AT DISHWASHERS LOCATION - REF NEC 210.52(C)(2): AT LEAST ONE RECEPTACLE WITHIN THE FIRST NINE SQUARE FEET OR FRACTION THEREOF, OF AN ISLAND COUNTERTOP AND AN ADDITIONAL RECEPTACLE FOR EVERY 18 SQUARE FEET MORE OR FRACTION THEREOF, OF AN ISLAND COUNTERTOP AND AN ADDITIONAL RECEPTACLE FOR EVERY 18 SQUARE FEET MORE OR FRACTION THEREOF, OF AN ISLAND COUNTERTOP AND AN ADDITIONAL RECEPTACLE FOR EVERY 18 SQUARE FEET MORE OR FRACTION THEREOF, OF AN ISLAND COUNTERTOP AND AN ADDITIONAL RECEPTACLE FOR EVERY 18 SQUARE FEET MORE OR FRACTION THEREOF, OF AN ISLAND COUNTERTOP AND AN ADDITIONAL RECEPTACLE FOR EVERY 18 SQUARE FEET MORE OR FRACTION THEREOF, OF AN ISLAND COUNTERTOP AND AN ADDITIONAL RECEPTACLE FOR EVERY 18 SQUARE FEET MORE OR FRACTION THEREOF.

С

SD/CO - PER NEPA CODE SD TO BE INSTALLED INSIDE OF EACH SEPARATE SLEEPING AREA AND OUTSIDE EACH DOOR IN THE IMMEDIATE VICINITY OF THE BEDROOMS. (R315.3) CO MUST BE INSTALLED OUTSIDE EACH BEDROOM WITHIN 15' OF EACH ROO - HARDWIRED APPLIANCES ARE REQ. TO HAVE A DISCONNECT WITHIN SIGHT OR A LOCKABLE MEANS AT CIRCUIT BREAKER.

- MIN. ONE 20 AMP CIRCUIT RECEPTACLE OUTLET LOCATED WITHIN 36" OF OUTSIDE EDGE OF LAV. BASIN - GFCI PROTECTED - TYPICAL FOR EACH BATHROOM (R3901.6 & 3902.1)

В

- ALL EXTERIOR LIGHTS- FULL CUT OFF

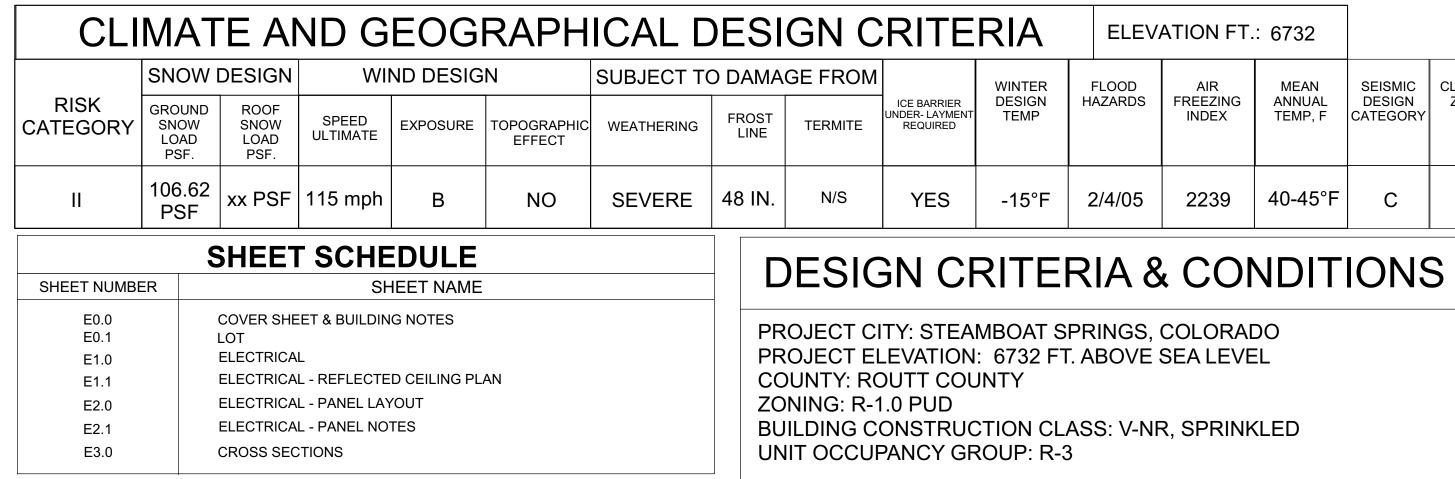
- ANY AND ALL CRAWLSPACE LIGHTS SHALL BE AFCI PROTECTED

Α

TWO FEET OF THE OUTER END OF A PENINSULA COUNTERTOP.

- CLOSET LIGHTS TO CONFORM TO E4003.12

- ARC FAULT PROTECTION REQ. AT ELECTRICAL OPENINGS



В

APPLICABLE CODES:

- 2018 International Building Code
- 2018 International Residential Code
- 2018 International Plumbing Code
- 2018 International Fuel Gas Code
- 2018 International Mechanical Code
- 2018 International Fire Code
- 2018 International Energy Conservation Code **
- 2020 National Electric Code

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NE IS TRIPPED, THEY ALL WILL SOUND. PROVIDE BATTERY BACKUP FOR ALL UNITS.		BUILD TO RE SPEC CONS
00 MM (3 FT) HORIZONTALLY AND 2.5 M (8 FT) VERTICALLY FROM THE TOP OF THE BA	THTUB RIM OR SHOWER STALL	
UITABLE FOR DAMP LOCATIONS OR MARKED SUITABLE FOR WET LOCATIONS. LUMIN	JAIRES LOCATED WHERE SUBJECT TO	
CTION THEREOF. AN ADDITIONAL REQUIREMENT STATES THAT AT LEAST ONE RECEP	TACLE SHALL BE LOCATED WITHIN	
DOM.		

DING CONTRACTOR/HOME OWNER REVIEW AND VERIFY ALL DIMENSIONS, CS, AND CONNECTIONS BEFORE **ISTRUCTION BEGINS.**

G

PROJECT DIRECTORY

OWNEF FIRST/LAST NAME: MATT EIDT ADDRESS: 345 LINCOLN AVE, #205, STEAMBOAT SPRINGS, CO 80487 - CHIEFTAIN SUITES TELEPHONE: 970-819-0827 EMAIL: MATT@MYBROKERS.COM GENERAL CONTRACTOR: FLAVIO QUEZADA; PINECONE INTERIORS

ELECTRICAL DESIGN: NAME COMPANY: ENGINEERING STUDIO DENVER FIRST/LAST NAME: JAKE FRIEDERICHS ADDRESS #1: 1801 WEWATTA ST. 11TH FLOOR DENVER, CO 80202 TELEPHONE: 720.612.7553 EMAIL: JAKE@ESDENVER.COM

TELEPHONE: 970-620-2205

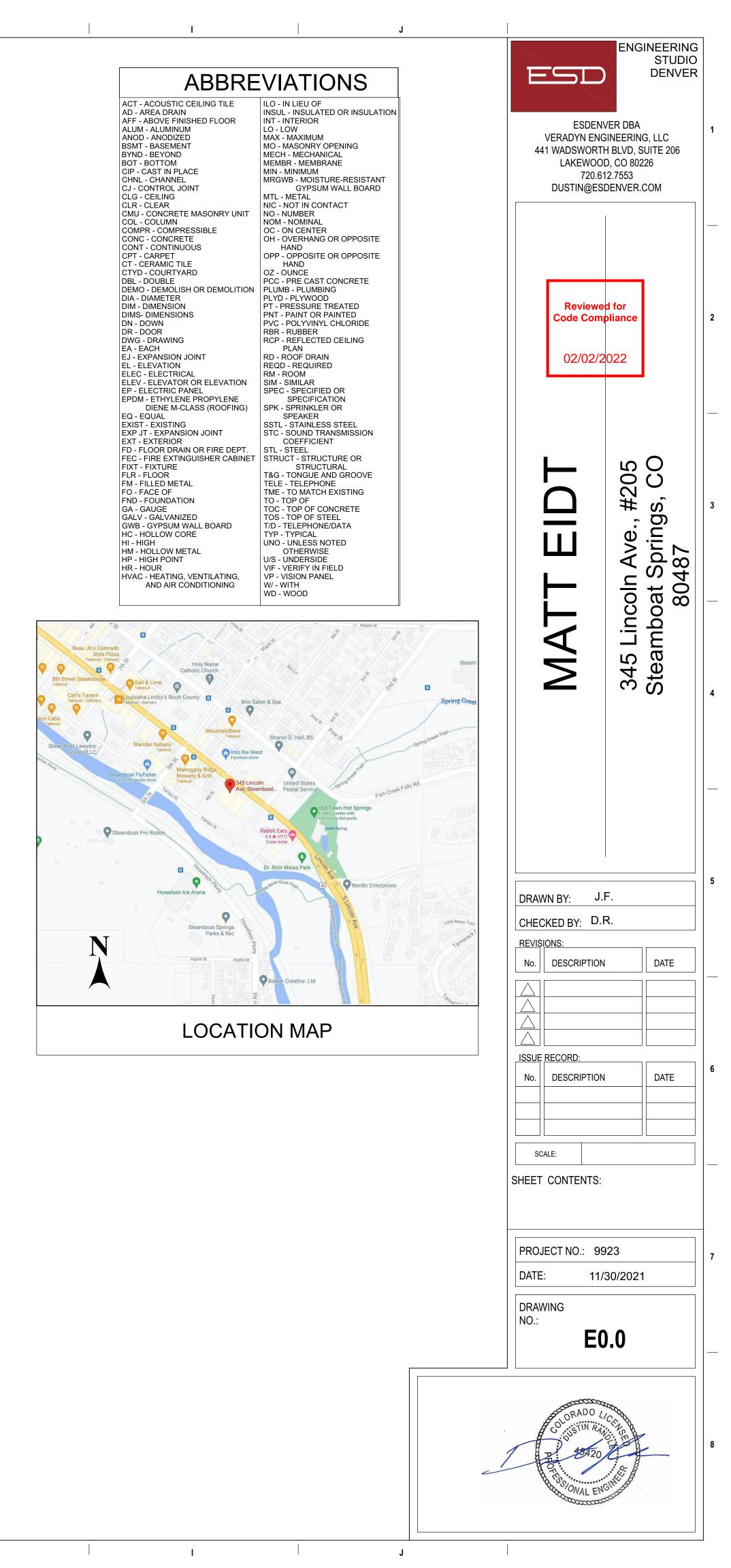
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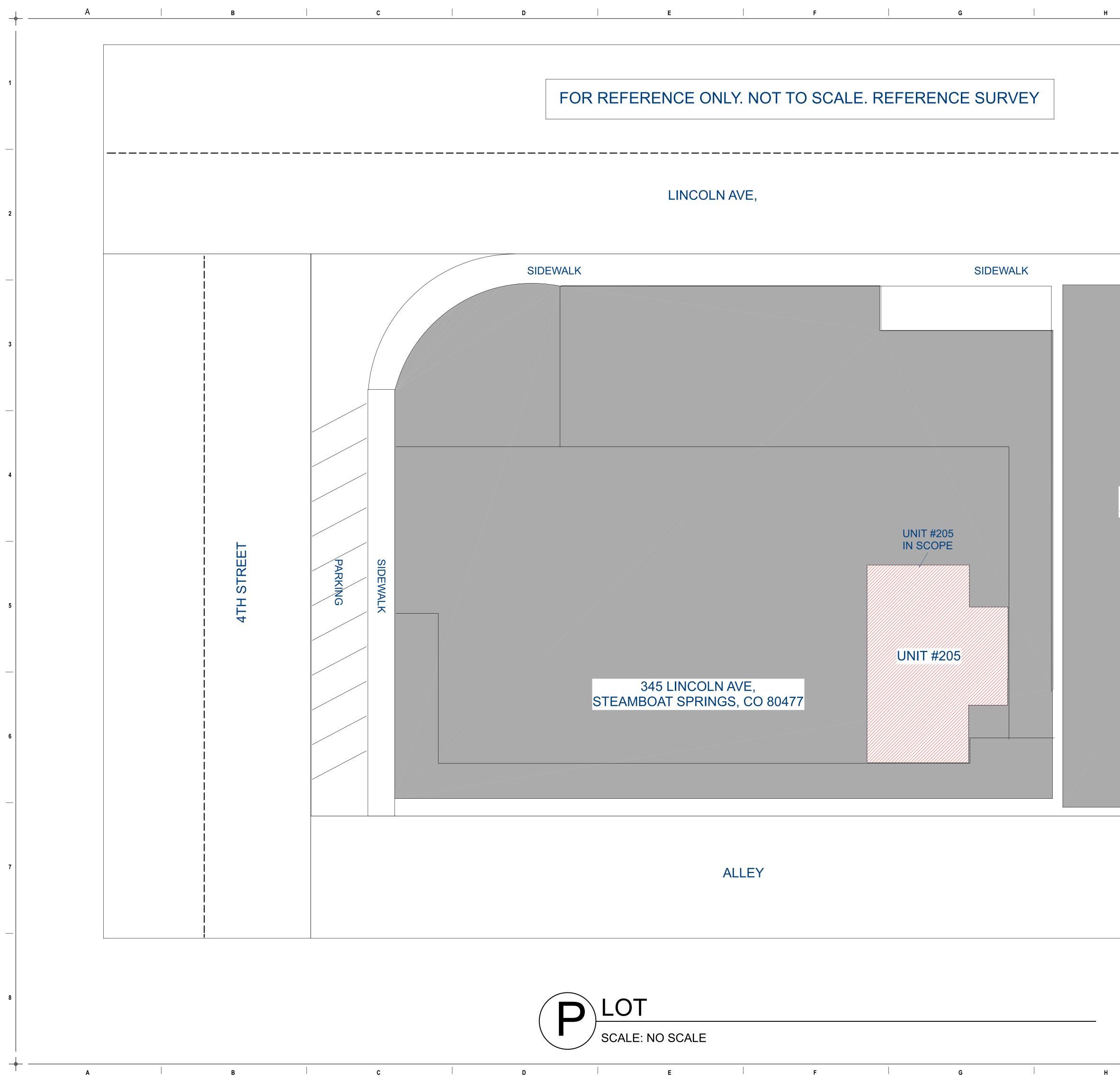
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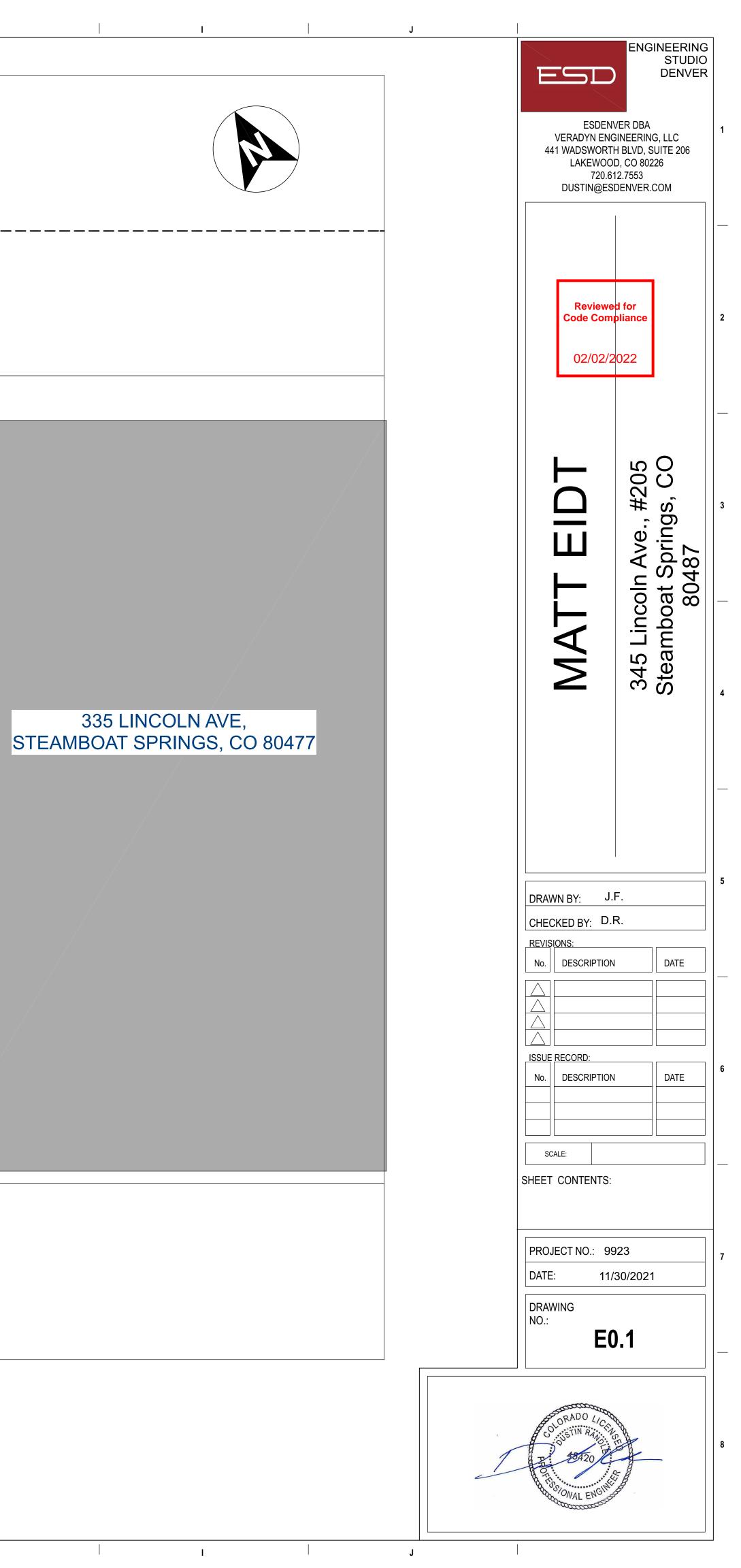
OD RDS	AIR FREEZING INDEX	MEAN ANNUAL TEMP, F	SEISMIC DESIGN CATEGORY	CLIMATE ZONE
05	2239	40-45°F	С	7

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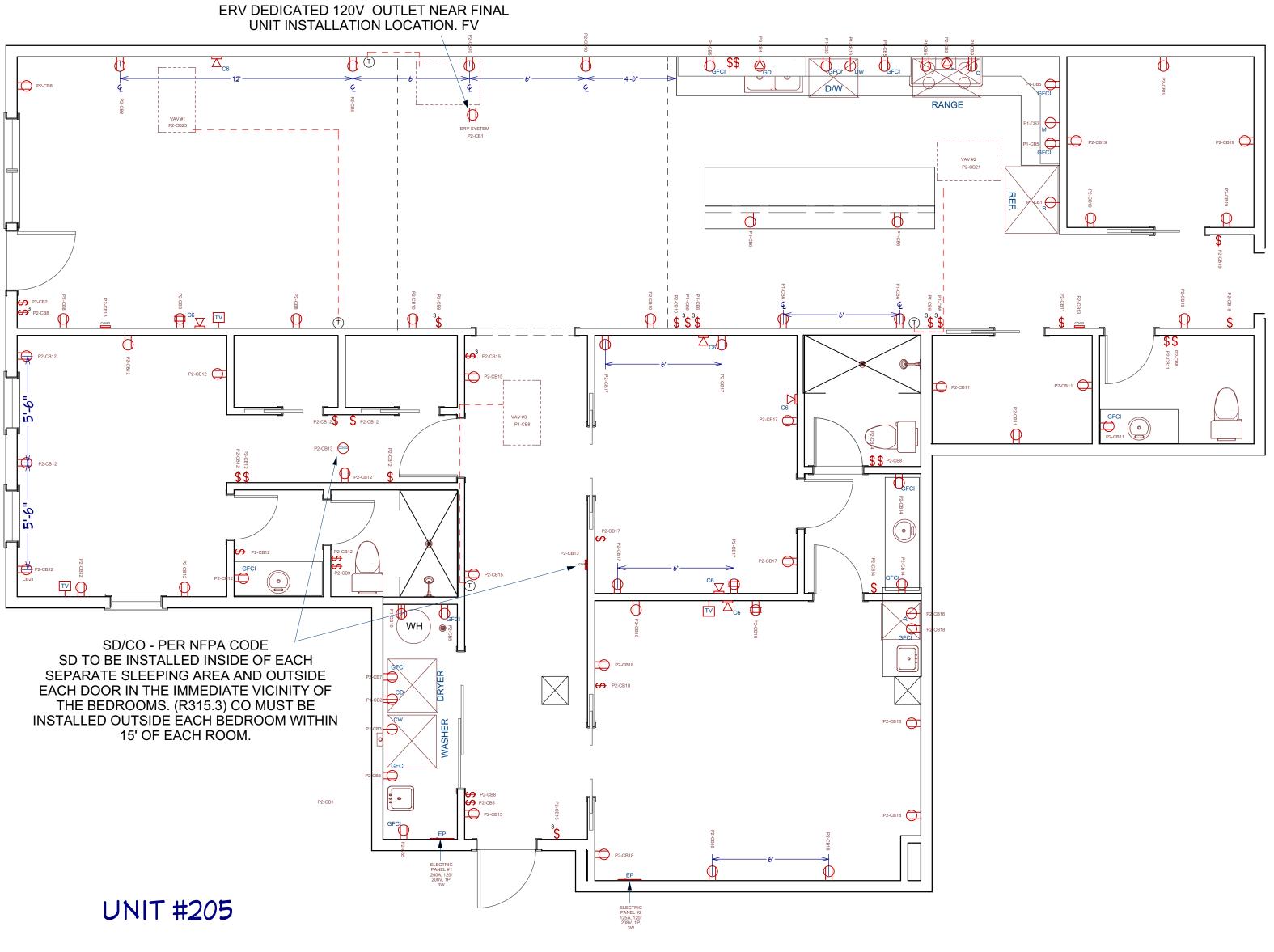


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PENDANT LIGHTING (STYLE/HEIGHT TO TBD) -

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ENGINEERS NOTE:

1. ELECTRICAL DESIGN DONE WITH ALL EXISTING AVAILABLE INFORMATION FOR THE PROPERTY. CERTIFIED ELECTRICIAN TO VERIFY PANEL CONNECTIONS, SIZING AND LAYOUT.

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2. CERTIFIED ELECTRICIAN TO INSTALL PER NEC 2020 CODE.

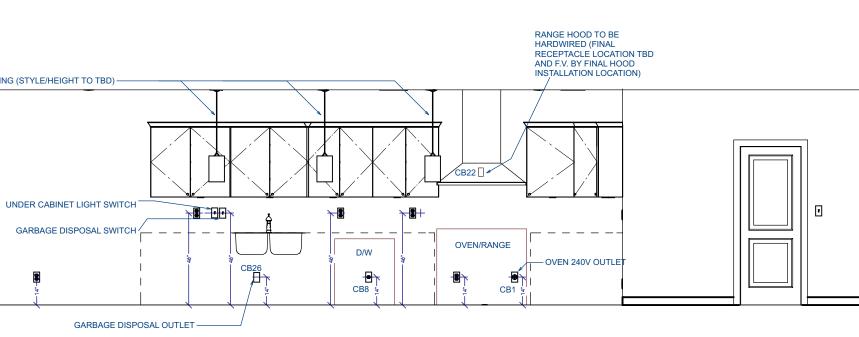
Α

3. CERTIFIED ELECTRICIAN TO NOTIFY ENGINEER W/ ANY CHANGES.

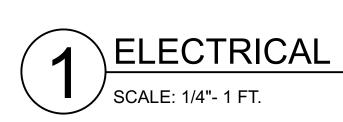
ALL DRAWINGS ARE SCHEMATIC ONLY. FIELD VERIFY ALL INSTALL LOCATIONS OF FIXTURES, SWITCHES, APPLIANCES, LIGHTS AND OUTLETS. COORDINATE WITH OTHER TRADES AS REQ.

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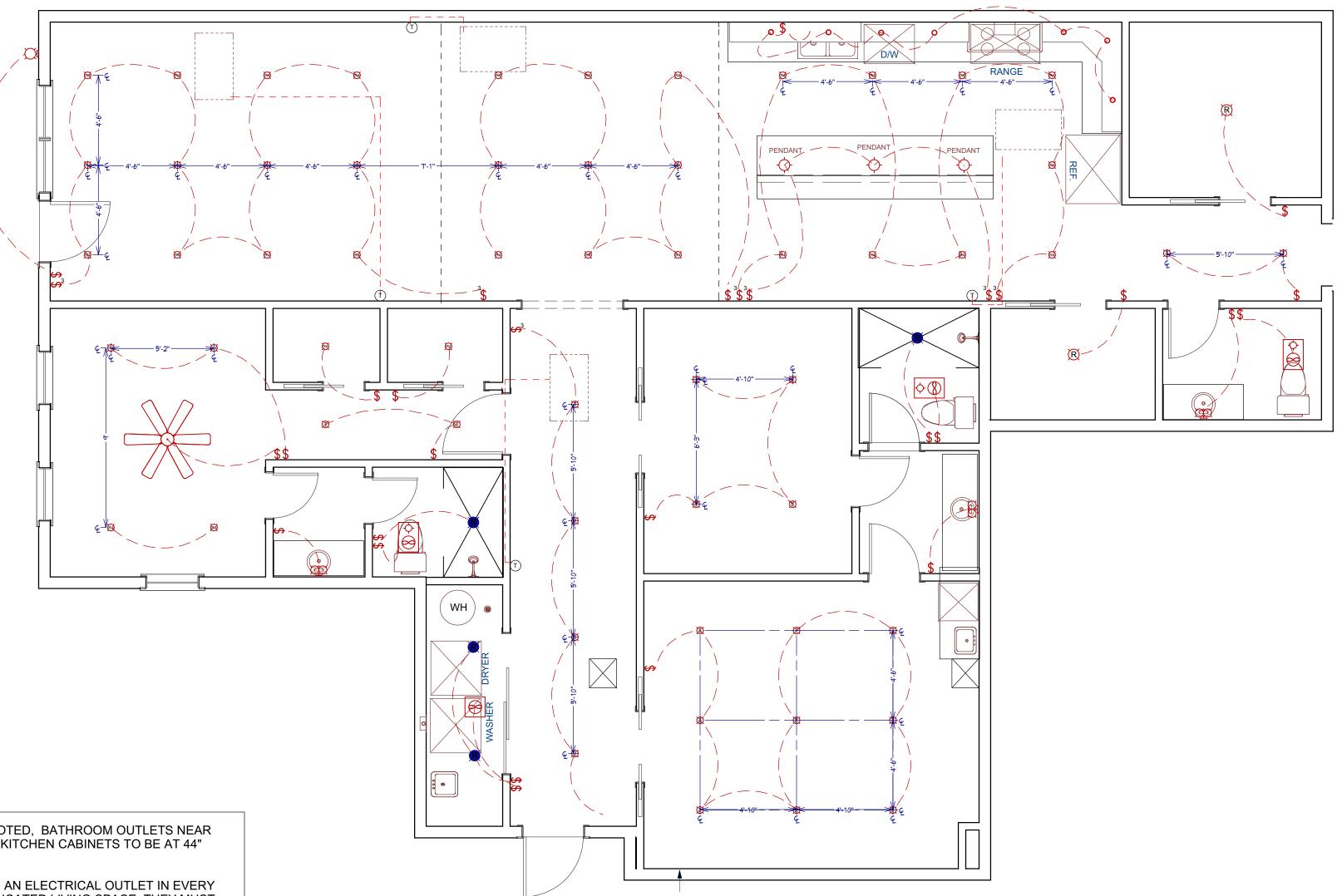
	DULE	OTY
	COMMENTS BRAND T.B.D.	<u>атү</u> 1
CLOTHES DRYER	BRAND T.B.D.	1
CLOTHES MASHER	BRAND T.B.D.	1
240V OVEN	BRAND T.B.D.	1
DISHWASHER	BRAND T.B.D.	1
REFRIGERATOR	BRAND T.B.D.	2
GARBAGE DISPOSAL	BRAND T.B.D.	1
HOOD WI VENT		1
MICROWAVE		1
DUPLEX		46
QUADRUPLEX		З
DUPLEX, CEILING MOUNTED		1
240V HM HEATER HARD MIRED		1
GFCI		14
EXT. LIGHT		1
PENDANT LIGHT		З
RECESSED DOWN LIGHT 4	LED	57
RECESSED DOWN LIGHT 6	LED	2
RECESSED VAPOR LIGHT	LED	4
VANITY LIGHT		З
SINGLE POLE SWITCH		21
THREE WAY		8
EXHAUST FAN WILIGHT		з
EXHAUST FAN		1
CAT6		6
TELEVISION JACK		3
SINGLE POLE		З
JNDER CABINET LIGHTING	LED	٦
THERMOSTAT		З
COISMOKE DETECTOR		4
ERV CONTROL		1
ELECTRICAL PANEL	EXISTING PANEL	2

V	ERADYN EN WADSWOR LAKEWOO	NVER DBA IGINEERING TH BLVD, S DD, CO 802 612.7553	UITE 206 26	
	Review Code Con 02/02/	npliance		-
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- ALL FLOOR OUTLETS TO BE AT 12" TO BTTM. (14" OC), FROM F.F. UNLESS OTHERWISE NOTED, BATHROOM OUTLETS NEAR THE SINK(S) WHICH ARE TO BE 48" TO BTTM. (50" O.C.) FROM F.F. & RECEPTACLES ABOVE KITCHEN CABINETS TO BE AT 44" TO BTTM. (46 O.C.) FROM F.F.

- THE US NATIONAL ELECTRICAL CODE, SECTION 210.52, STATES THAT THERE SHOULD BE AN ELECTRICAL OUTLET IN EVERY KITCHEN, BEDROOM, LIVING ROOM, FAMILY ROOM, AND ANY OTHER ROOM THAT HAS DEDICATED LIVING SPACE. THEY MUST BE POSITIONED AT LEAST EVERY SIX FEET MEASURED ALONG THE FLOOR LINE & INSTALLED IN EACH WALL SPACE 2 FT. OR MORE IN LENGTH.

- ALL LIGHT SWITCHES TO BE AT 48" TO BTTM. (50" O.C.) UNLESS OTHERWISE NOTED. *KITCHEN SWITCHES ABOVE CABINETS TO BE @ 46" O.C.

CLOSETS:

- DISTANCES BETWEEN FIXTURES AND STORAGE ITEMS: FOR SURFACE-MOUNTED INCANDESCENT OR LED LIGHT FIXTURES, THERE MUST BE A MINIMUM DISTANCE OF 12 INCHES BETWEEN THE FIXTURE AND ANY ITEMS STORED IN THE CLOSET. FOR RECESSED INCANDESCENT OR LED LIGHT FIXTURES, THIS DISTANCE MUST BE AT LEAST 6 INCHES. FOR FLUORESCENT LIGHT FIXTURES, THE MINIMUM DISTANCE IS 6 INCHES.

- NO BARE BULBS ALLOWED. EXPOSED OR PARTIALLY EXPOSED INCANDESCENT OR LED LAMPS (BULBS) ARE NOT ALLOWED IN CLOSETS. WHILE UTILITY LIGHT FIXTURES WITH BARE BULBS IN A SOCKET WERE ONCE COMMON IN CLOSETS AND OTHER STORAGE AREAS, THESE ARE NO LONGER ALLOWED. ALL LIGHT BULBS MUST BE FULLY ENCLOSED IN A GLOBE OR OTHER HOUSING.

REF 2020 NEC CODE FOR ELECTRICAL (STATE OF CO)

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- GFCI PROTECTION

REF. NEC, 210.8(A): DWELLING UNITS. ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES INSTALLED IN THE LOCATIONS SPECIFIED IN 210.8(A)(1) THROUGH (A)(11) AND SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL.

(1) BATHROOMS - MIN. 1 GFCI OUTLET AND WITHIN 3 FT. OF SINK.

(2) KITCHENS — WHERE THE RECEPTACLES ARE INSTALLED TO SERVE THE COUNTERTOP SURFACES

(3) SINKS — WHERE RECEPTACLES ARE INSTALLED WITHIN 1.8 M (6 FT) FROM THE TOP INSIDE EDGE OF THE BOWL OF THE SINK

(4) BATHTUBS OR SHOWER STALLS — WHERE RECEPTACLES ARE INSTALLED WITHIN 1.8 M (6 FT) OF THE OUTSIDE EDGE OF THE BATHTUB OR SHOWER STALL

(5) LAUNDRY AREAS

Δ

EXCEPTION TO (1) THROUGH (3), (5) THROUGH (8), AND (10): LISTED LOCKING SUPPORT AND MOUNTING RECEPTACLES UTILIZED IN COMBINATION WITH COMPATIBLE ATTACHMENT FITTINGS INSTALLED FOR THE PURPOSE OF SERVING A CEILING LUMINAIRE OR CEILING FAN SHALL NOT BE REQUIRED TO BE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTED. IF A GENERAL-PURPOSE CONVENIENCE RECEPTACLE IS INTEGRAL TO THE CEILING LUMINAIRE OR CEILING FAN, GFCI PROTECTION SHALL BE PROVIDED. (6) INDOOR DAMP AND WET LOCATIONS SD/CO - PER NFPA CODE SD TO BE INSTALLED INSIDE OF EACH SEPARATE SLEEPING AREA AND OUTSIDE EACH DOOR IN THE IMMEDIATE VICINITY OF THE BEDROOMS. (R315.3) CO MUST BE INSTALLED OUTSIDE EACH BEDROOM WITHIN 15' OF EACH ROOM. LAUNDRY AREAS REQUIRE A 20 AMP BRANCH CIRCUIT TO SUPPLY THE LAUNDRY RECEPTACLE OUTLET. THIS CIRCUIT SHALL SERVE ONLY RECEPTACLE OUTLETS LOCATED IN LAUNDRY AREA. ** *ARC FAULT CIRCUIT INTERRUPTERS (AFCI), PER NEC, REQUIRED IN ALL LIVING AREAS**

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ALL DRAWINGS ARE SCHEMATIC ONLY. FIELD VERIFY ALL INSTALL LOCATIONS OF FIXTURES, SWITCHES, APPLIANCES, LIGHTS AND OUTLETS. COORDINATE WITH OTHER TRADES AS REQ.

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ENGINEERS NOTE:

- 1. ELECTRICAL DESIGN DONE WITH ALL EXISTING AVAILABLE INFORMATION FOR THE PROPERTY. CERTIFIED ELECTRICIAN TO VERIFY PANEL CONNECTIONS, SIZING AND LAYOUT.
- 2. CERTIFIED ELECTRICIAN TO INSTALL PER NEC 2020 CODE.
- 3. CERTIFIED ELECTRICIAN TO NOTIFY ENGINEER W/ ANY CHANGES.



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SCALE: 1/4"- 1 FT.

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LECTRICAL SCHEDU CEILING FAN BRAND T.B.D. CLOTHES DRYER BRAND T.B.D. LOTHES WASHER BRAND T.B.D. CW BRAND T.B.D. 240V OVEN 0 BRAND T.B.D. SHWASHER DW BRAND T.B.D. REFRIGERATOR GARBAGE DISPOSAL BRAND T.B.D. HOOD W VENT \leftarrow MICROMAVE DUPLEX \bigcirc QUADRUPLEX DUPLEX, CEILING MOUNTED 240V HW HEATER HARD WIRED GFCI EXT. LIGHT PENDANT LIGHT (R4) RECESSED DOWN LIGHT 4 LED R ECESSED DOWN LIGHT 6 LED RECESSED VAPOR LIGHT VANITY LIGHT NGLE POLE SWITCH HREE MAY 100 HAUST FAN W/LIGHT EXHAUST FAN **C**6 ELEVISION JACK TV NGLE POLE UNDER CABINET LIGHTING LED Τ THERMOSTAT CO/SD CO/SMOKE DETECTOR T ERY CONTROL EXISTING PANEL ELECTRICAL PANEL EP

ENGINEERING STUDIO DENVER ESDENVER DBA VERADYN ENGINEERING, LLC 441 WADSWORTH BLVD, SUITE 206 LAKEWOOD, CO 80226 720.612.7553 DUSTIN@ESDENVER.COM Reviewed for Code Compliance 02/02/2022 #205 s, CO \square 345 Lincoln Ave., #2 Steamboat Springs, 80487 Ш MAT DRAWN BY: J.F. CHECKED BY: D.R. <u>REVIȘIONS:</u> DATE No. DESCRIPTION ISSUE RECORD: DATE No. DESCRIPTION SCALE: SHEET CONTENTS: PROJECT NO.: 9923 DATE: 11/30/2021 DRAWING NO.: E1.1

				#205 - PANE	,	<u> </u>					DA		11/30/20	
		Moun ⁻ SURF	ting Method	Panel Status RELOCATED NEW				Volt: Phas		208/120 1	Panel Information Bus Rating Main Breaker:	200 MCB	A	
		FLU	ACE SH I	EXISTING		✓ ✓	j	Wire		3	AIC Rating:		10,000	
	Copper Feeder Size (AWG)	Code	Description PANEL #1	Load VA	Bkr		Ph A	Ph P B		Load VA	Description	Code	Copper Feeder Size (AWG)	C
	**Arc fault cir	cuit inte	rrupters (AFCI) per NEC required in	all living areas	MA		(A	JIT BREA MP)	KER	*:	*Arc fault circuit interrupters (AFCI) p	er NEC require	d in all living areas	
							2	200						
	12		Kitchen Ref	1200	20	1	•	2	40		Clothes dryer	7	8	
	10 12		Clothes Washer Kitchen-1	<u> </u>	30 20	1		• 1	20		Clothes dryer Kitchen-2	7	8 12	
	12		Microwave	1200	20	1	•	• 1	20		VAV unit - 3	6	12	
	8		Electric range/oven	5000	40	2	•	2			Water Heater	2	8	-
	8		Electric range/oven			1		• 1		0000	Water Heater	2	8	-
	12		Dishwasher	1500	20	1	•	1	20				12	
	12		Refrigerator	1200	20	1		• 1	20				12	-
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_		Code	Description		Doro						Load Summary			
		Code 1	Description SMALL APPLIANCE	Load VA	Dem 35%				Per	Phase	Load Summary			
			Lighting/Outlets up to 3000	3000.0					Per Ph A	12600	V۵			
			LIGHTING/OUTIETS UP to 3000						Ph A Ph B	12600				
			APPLIANCE W/MOTOR	5600.0	35% 75%				rn B	12600	V M			
			LARGEST MOTOR	1500.0										
			APPLIANCE W/O MOTOR	1000.0	100%				Conne	cted	252	00.00 VA		
			KITCHEN EQUIPMENT	8900.0						Demand		55.00 VA		
			AC/HEAT	0300.0	100%				Coule			69.95 Amps		
			ELECTRIC DRYER	5000.0						Demand		48.45 Amps		
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		Mour	nting Method	Panel Status							
		SURI FLU	FACE	RELOCATED NEW EXISTING		 		F	'olt: 'has Vire	e	
kt ¥	Copper Feeder Size (AWG)	Code	Description PANEL #2	Load VA	Bkr	Ρ	Ph A	Ph B	Р	Bkr	Ī
					MAI	N C	IRCU	IT BR	EA	KER	T
	**Arc fault ci	rcuit inte	errupters (AFCI) per NEC required in all	living areas			•	MP)			╞
							1:	25			
1	12	3	ERV System	600	20	1	•		1	20	┝
3	12	5	Range hood	600	20	1		•	1	20	t
5	12	2	Laundry Room	1200	20	1	•		1	20	T
7	12	2	Laundry Cricuit	1500	20	1		•	1	20	t
9	12	3	Exhaust fans baths x 4	600	20	1	•		1	20	t
1	12	2	Pantry/Powder	1200	20	1	-	•	1	20	+
3	12	1	Smoke/CO2 Sensor Circuit	500	20	1	•	-	1	20	+
5	12	2	Hallway Circuit	1200	20	1	•	-	1	20	+
7								•			+
	12	2	Patio	1200	20	1	•		1	20	+
9	12	2	Entry/Mudrooms	1200	20	1		•	1	20	+
1	12	6	VAV Unit -2	1200	20	1	•		1	20	+
3	12				20	1		•	1	20	
5	12	6	VAV Unit -1	1200	20	1	•		1	20	
7	12				20	1		•	1	20	
9	12				20	1	•		1	20	
1	12				20	1		•	1	20	
3	12				20	1	•		1	20	
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		Code	Description	Load VA	Dem						
		1	SMALL APPLIANCE		35%					Per	ſ
				2000 0							•
		2	Lighting/Outlets up to 3000	3000.0	100%					Ph A	
			LOAD OVER 3000	15200.0	35%					Ph B	
		3	APPLIANCE W/MOTOR	600.0	75%						
			LARGEST MOTOR	600.0	125%						
		4	APPLIANCE W/O MOTOR		100%					Connec	:te
		5	KITCHEN EQUIPMENT	2800.0	80%					Code	ſ
		6	AC/HEAT	1200.0	100%					Connec	
		7		1200.0							
		1	ELECTRIC DRYER		100%					Code	L
	Min Feeder Si	-	2 AWG				000			TRODE	

ENGINEERS NOTE:

ELECTRICAL - PANEL LAYOUT

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SCALE: NO SCALE

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		DATE:		11/30/20	21
		Panel Information			
	208/120 1 3	Bus Rating Main Breaker: AIC Rating:	125 MCB	A 10,000	
	Load VA	Description	Code	Copper Feeder Size (AWG)	Ckt #
	1200 1600 1200	*Arc fault circuit interrupters (AFCI) per NE Porch Garbage Disposal Living Room	25	12 12 12 12 12	2 4 6 8 10
	1200 1200 600 1200 1200 1500	Dining Room Master BR/MASTER BATH/Clsts Bath 2/Vanity Mini-Refrigerator Den / Office Appliance circuit - I Appliance circuit - II	2 2 5 2 2 2 2 2	12 12 12 12 12 12 12 12 12 12	12 14 16 18 20 22 24
				12 12 12 12 12 12	26 28 30 32
	Phase 12800 11800	VA			
	ted Demand ted Demand) VA 3 Amps Amps	2 AWG	
-		8 AWG	•	ZAWG	

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DUS	ATE: 11/30/2021	Panel Inform	#205 - PANEL # Panel Status	NAME:9990_345 Lincoln Av Mounting Method	DATE: 11/30/2021	Panel I	#205 - PANEL #1 Panel Status	NAME:9990_345 Lincoln Ave Mounting Method
	125 A MCB 10,000	Volt: 208/120 Bus Rating Phase 1 Main Breaker: Wire 3 AIC Rating:	RELOCATED NEW EXISTING	SURFACE	200 A MCB 10,000	Volt: 208/120 Bus Rating Phase 1 Main Breaker: Wire 3 AIC Rating:	RELOCATED NEW EXISTING	SURFACE FLUSH
F Co	Code Copper Feeder Size (AWG) Ckt # I) per NEC required in all living areas	Ph Ph P Bkr Load Description A B VA VA IRCUIT BREAKER (AMP) **Arc fault circuit interrupters	VA MA	Ckt Copper Feeder Code Description # Size (AWG) PANEL #2 **Arc fault circuit interrupters (AFCI) per NEC required	rupters (AFCI) per NEC required in all living areas	UIT BREAKER	VA A A MAIN CIRC	t Copper Feeder Code Description Size (AWG) PANEL #1 **Arc fault circuit interrupters (AFCI) per NEC required in
	2 12 2 5 12 4	125 1 20 1200 Porch ● 1 20 1600 Garbage Disposal	600 20 600 20	1123ERV System3125Range hood	7 <u>8</u> 2 78 <u>4</u>	200 2 40 5000 Clothes dryer • 1 / Clothes dryer	<u>1200</u> 201● 1500301	122Kitchen Ref103Clothes Washer
	12 6 2 12 8 2 12 10 ′Clsts 2 12 12	• 1 20 Living Room • 1 20 1200 Living Room • 1 20 1200 Dining Room • 1 20 1200 Master BR/MASTER B	600 20 600 20 1200 20 1500 20 600 20 1200 20 1200 20 1200 20 1200 20	5122Laundry Room7122Laundry Cricuit9123Exhaust fans baths x 411122Pantry/Powder13121Smoke/CO2 Sensor Circuit	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 20 1200 Kitchen-2 ● 1 20 1200 VAV unit - 3	1200 20 1 1200 20 1 5000 40 2	122Kitchen-1125Microwave85Electric range/oven85Electric range/oven
	2 12 14 5 12 16 2 12 18 2 12 20	• 1 20 1200 Bath 2/Vanity	1200 20 500 20 1200 20 1200 20 1200 20 1200 20 1200 20 1200 20 1200 20 1200 20	15122Hallway Circuit17122Patio19122Entry/Mudrooms	12 16 12 18 12 20	1 20 1 20 1 20 1 20 1 20	1500 20 1 1200 20 1 20 1 20 1 20 1	125Dishwasher125Refrigerator1212
	2 12 22 12 24 12 26 12 28	• 1 20 1500 Appliance circuit - II • 1 20	1200 20 20 20 1200 20 20 20	21 12 6 VAV Unit -2 23 12 - 25 12 6 VAV Unit -1 27 12 -	12 22 12 24 12 26 12 28	1 20 1 20 1 20 1 20 1 20	20 1 • 20 1 20 1 • 20 1 • 20 1	12 12 12 12 12
	12 30 12 32 12 12	• 1 20 1500 Appliance circuit - if • 1 20	20 20 20 20	29 12 31 12 33 12 35	12 30 12 32 12 12	1 20 1 20 1 20 1 20 1 20	20 1 20 1 20 1 20 1 20 1	12 12 12 12
		• 1 20 • 1 20	20	37		1 20 1 20 1 20 -	20 1 • 20 1 20 1 • 20 1 •	
		Image: Sector of the sector						
			-					
DRAWN BY								
		Load Summary Per Phase	Load VA Dem 35%	Code Description 1 SMALL APPLIANCE		Load Summary Per Phase	Load VA Dem 35%	Code Description 1 SMALL APPLIANCE
No. DES		Ph A 12800 VA Ph B 11800 VA	3000.0 100% 15200.0 35% 600.0 75% 600.0 125%	2 Lighting/Outlets up to 3000 LOAD OVER 3000 3 APPLIANCE W/MOTOR LARGEST MOTOR		Ph A 12600 VA Ph B 12600 VA	3000.0 100% 5600.0 35% 75% 1500.0 125%	2 Lighting/Outlets up to 3000 LOAD OVER 3000 3 APPLIANCE W/MOTOR LARGEST MOTOR
	4600.00 VA 2360.00 VA 68.28 Amps	Connected Code Demand Connected	100% 2800.0 80% 1200.0 100%	4 APPLIANCE W/O MOTOR5 KITCHEN EQUIPMENT6 AC/HEAT	25200.00 VA 17455.00 VA 69.95 Amps 48.45 Amps	Connected Code Demand Connected Code Demand	100% 8900.0 80% 100% 5000.0 100%	 4 APPLIANCE W/O MOTOR 5 KITCHEN EQUIPMENT 6 AC/HEAT 7 ELECTRIC DRYER
ISSUE RECO No. DES	34.31 Amps 8 AWG 2 AWG	Code Demand GROUND ELECTRODE	100%	7 ELECTRIC DRYER Min Feeder Size 2 AWG	4 AWG 2/0 AWG	OUND ELECTRODE		Min Feeder Size 2/0 AWG
SCALE:				RS NOTE:	ENGIN			
				XISTING AVAILABLE INFORMATION FOR AN TO VERIFY PANEL CONNECTIONS,	HE PROPERTY. CERTIFIED ELECTR	TF		
PROJECT I DATE:				R NEC 2020 CODE.	IZING AND LAYOUT. ERTIFIED ELECTRICIAN TO INSTALI			
DRAWING				GINEER W/ ANY CHANGES.	ERTIFIED ELECTRICIAN TO NOTIFY	3. CE		
NO.:								

Director	y Panel - NEC		NEC
	DESCRIPTION		
	Electric range/oven		 The cord's length must be between 450 mm (18 in.) and 1.2 m. (4 ft). Receptacles are placed to prevent the flexible cable against physical damage. The receptacle is fed by a separate branch circuit. The receptacle shall be accessible.
	Electric range/oven	<i>422.16(B)(4)</i>	5. The flexible cord must have a grounding conductor and also be terminated with a grounding-type attachment connector. Exception: A listed appliance distinctly marked to identify it as protected by a system of double insulation shall not be required to be terminated with a grounding-type attachment plug.
	Clothes dryer Clothes dryer	210.8(A)	1. Requires GFCI protection if it's in laundry Area
			1. For a service rated 100 through 400 A, the service conductors supplying the entire load associated with a one-family dwelling, or the service conductors supplying the entire
	Water heater	310.15(B)(7)	load associated with an individual dwelling unit in a two-family or multifamily dwelling, shall be permitted to have an ampacity not less than 83 percent of the service rating. 2. For a feeder rated 100 through 400 A, the feeder conductors supplying the entire load associated with a one-family dwelling, or the feeder conductors supplying the entire load associated with an individual dwelling, unit in a two-family or multifamily dwelling, shall be permitted to have an ampacity not less than 83 percent of the feeder rating.
	Water heater		
			1. Requires GFCI protection if it's in laundry Area
	Clothes washer	210.8(A)(10)	
	Dishwasher	422.16(B)(2) 210.8(D)	 If BUILT IN : The flexible cord shall be terminated with a grounding-type attachment plug. Exception: A listed dishwasher or trash compactor distinctly marked to identify it as protected by a system of double insulation shall not be required to be terminated with a grounding-type attachment plug. For a trash compactor, the length of the cord shall be 0.9 m to 1.2 m (3 ft to 4 ft) measured from the face of the attachment plug to the plane of the rear of the appliance. For a built-in dishwasher, the length of the cord shall be 0.9 m to 2.0 m (3 ft to 6.5 ft) measured from the face of the attachment plug to the plane of the rear of the appliance. Receptacles shall be located to protect against physical damage to the flexible cord. The receptacle for a trash compactor shall be located in the space occupied by the appliance or adjacent thereto.
			6. The receptacle for a built-in dishwasher shall be located in the space adjacent to the space occupied by the dishwasher.7. The receptacle shall be accessible.
			IF Not: <u>GECL protection shall be provided for outlets that supply dishwashers installed in dwelling unit locations</u> Microwave ovens often demand dedicated circuitry, but this isn't always a necessity.
	Microwave FRV System		
	ERV System VAV unit - 1		Power Rating Calculated According to NEC
	VAV unit - 2 VAV unit - 3		Power Rating Calculated According to NEC Power Rating Calculated According to NEC
	Refrigerator Mini-refrigerator		
	Laundry circuit Appliance circuit - 1	210.8(A)(10)	All 125-volt, single-phase, 15- and 20-ampere receptacles installed in the locations specified in 210.8(A)(1) through (10) shall have ground-fault circuit-interrupter protection for personnel.
	Exhaust fans baths x 4 Appliance circuit - 2		
	Master BR/MASTER BATH/Clsts	210.11(C)(3) 210.52(D)	In addition to the number of branch circuits required by other parts of this section, one or more 120-volt, 20-ampere branch circuit shall be provided to supply bathroom(s) receptacle outlet(s) All receptacles must be AFCI and GFCI-protected, either by circuit breakers or individual receptacles that offer AFCI and GFCI protection. required by 210.52(D) and any countertop and similar work surface receptacle outlets. Such circuits shall have no other outlets.
	Hallway/Den	210.52(H)	While Article 210.52(H) requires at least one receptacle in hallways that are 10 feet (or more) in length, the NEC doesn't clearly define what a hallway is. A new subsection was added to require ground-fault circuit-interrupter protection (GFCI protection), for 125-volt, single-phase, 15- and 20-ampere receptacles installed within 6 ft. of a bathtub or shower stall.
	Master BR/MASTER BATH/Clsts	210.8(A)	If a hazard exists and GFCI protection is required for 125-volt, single-phase, 15- and 20-ampere receptacles installed within 6 ft. of any dwelling unit sink, then the same hazard exists within 6 ft. of bathtub or shower stall. Now GFCI protection is required for any 125-volt, single-phase, 15- or 20-ampere receptacle installed within 6 ft. of a dwelling bathtub or shower stall. All 125-volt, single-phase, 15- or 20-ampere receptacles installed in a bathroom must have GFCI protection even if a bathroom receptacle is 100 ft. from any sink, tub or shower. Section 210.8(A)(requires GFCI protection for these receptacles any time they are within the envelope of the bathroom, regardless of distance to the sink, tub or shower. Outside the bathroom, possibly in a hallway, or bedroom, if there are any 125-volt, single-phase, 15- or 20-ampere receptacles within 6 ft. of the shower or bathtub, they now require GFCI protection is required for any sink, the one of the bathroom.
	Range hood	422.16(B)(4)	 The length of the cord is not less than 450 mm (18 in.) and not over 1.2 m (4 ft). Receptacles are located to protect against physical damage to the flexible cord. The receptacle is supplied by an individual branch circuit. The receptacle shall be accessible. The flexible cord shall have an equipment grounding conductor and be terminated with a grounding-type attachment plug. Exception: A listed appliance distinctly marked to identify it as protected by a system of double insulation shall not be required to be terminated with a grounding-type attachment plug.
	Range hood Entry/Mudrooms	422.16(B)(4) 210.52(A)	 The length of the cord is not less than 450 mm (18 in.) and not over 1.2 m (4 ft). Receptacles are located to protect against physical damage to the flexible cord. The receptacle is supplied by an individual branch circuit. The receptacle shall be accessible. The flexible cord shall have an equipment grounding conductor and be terminated with a grounding-type attachment plug.
			 1. The length of the cord is not less than 450 mm (18 in.) and not over 1.2 m (4 ft). 2. Receptacles are located to protect against physical damage to the flexible cord. 3. The receptacle is supplied by an individual branch circuit. 4. The receptacle shall be accessible. 5. The flexible cord shall have an equipment grounding conductor and be terminated with a grounding-type attachment plug. Exception: A listed appliance distinctly marked to identify it as protected by a system of double insulation shall not be required to be terminated with a grounding-type attachment plug. 210.52(A) General Provisions. In every kitchen, family room, dining room, living room, parlor, library, den, sunroom, bedroom, recreation room, or similar room or area of dwelling units, receptacle outlets shall be installed in accordance with the general provisions specified in 210.52(A)(1) through (A)(3). 210.52(E)(1) Balconies, Decks, and Porches. Balconies, decks, and porches that are attached to the dwelling unit and are accessible from inside the dwelling unit shall have at least one receptacle outlet accessible from the balcony, deck, or porch. The receptacle outlet shall not be located more than 2.0 m (6 ½ ft) above the balcony, deck, or porch walking surface. If the electrician feeds only a single bathroom with the one 20-amp branch circuit required in 210.11(C)(3), then the electrician may feed loads other than countertop and work surface receptacles in that bathroom. The NEC offers no restrictions for the types of additional loads that can be served in this case. Assuming the electrician is complying with all manufacturer's specifications for the equipment installed in the bathroom, it is fair to say that all 120-Volt receptacles and loads, including lighting, can be served by this branch circuit when it is dedicated to a single bathroom.
	Entry/Mudrooms Patio	210.52(A) 210.52(E)(3) 210.70(B) 210.11(C)(3) '210.11(C)(3)	 The length of the cord is not less than 450 mm (18 in.) and not over 1.2 m (4 ft). Receptacles are located to protect against physical damage to the flexible cord. The receptacle is supplied by an individual branch circuit. The receptacle shall be accessible. The flexible cord shall have an equipment grounding conductor and be terminated with a grounding-type attachment plug. Exception: A listed appliance distinctly marked to identify it as protected by a system of double insulation shall not be required to be terminated with a grounding-type attachment plug. 210.52(A) General Provisions. In every kitchen, family room, dining room, living room, parlor, library, den, sunroom, bedroom, recreation room, or similar room or area of dwelling units, receptacle outlets shall be installed in accordance with the general provisions specified in 210.52(A)(1) through (A)(3). 210.52(E)(1) Balconies, Decks, and Porches. Balconies, decks, and porches that are attached to the dwelling unit and are accessible from inside the dwelling unit shall have at least one receptacle outlet accessible from the balcony, deck, or porch. The receptacle outlet shall not be located more than 2.0 m (6 ½ ft) above the balcony, deck, or porch walking surface. If the electrician feeds only a single bathroom with the one 20-amp branch circuit required in 210.11(C)(3), then the electrician may feed loads other than countertop and work surface receptacles in that bathroom. The NEC offers no restrictions for the types of additional loads that can be served in this case. Assuming the electrician is complying with all manufacturer's specifications for the equipment installed in the bathroom, it is fair to say that all 120-Volt receptacles and loads, including lighting, can be served by this branch circuit when it is dedicated to a single bathroom.
	Entry/Mudrooms Patio	210.52(A) 210.52(E)(3) 210.70(B) 210.11(C)(3) '210.11(C)(3)	 The length of the cord is not less than 450 mm (18 in.) and not over 1.2 m (4 ft). Receptacles are located to protect against physical damage to the flexible cord. The receptacle shall be accessible. The receptacle shall be accessible. The flexible cord shall have an equipment grounding conductor and be terminated with a grounding-type attachment plug. Exception: A listed appliance distinctly marked to identify it as protected by a system of double insulation shall not be required to be terminated with a grounding-type attachment plug. Exception: A listed appliance distinctly marked to identify it as protected by a system of double insulation shall not be required to be terminated with a grounding-type attachment plug. 210.52(A) General Provisions. In every kitchen, family room, dining room, living room, parlor, library, den, sunroom, bedroom, recreation room, or similar room or area of dwelling units, receptacle outlets shall be installed in accordance with the general provisions specified in 210.52(A)(1) through (A)(3). 210.52(E)(1) Balconies, Decks, and Porches. Balconies, decks, on porchs. The receptacle outlet shall not be located more than 2.0 m (6 ½ ft) above the balcony, deck, or porch. The receptacle outlet accessible from inside the dwelling unit shall have at least one receptacle outlet accessible from the balcony, deck, or porch. The receptacle outlet and that can be served in this case. Assuming the electricain is complying with all manufacturer's specifications for the equipment installed in the bathroom, it is fair to say that all 120-Volt receptacles and loads, including lighting, can be served by this branch circuit when it is dedicated to a single bathroom. It is always permissible to pull more than one 20-amp branch circuit for feeding the bathrooms in a dwelling. One branch circuit is simply the minimum permitted for a dwelling regardless of the number of bathroom
	Entry/Mudrooms Patio Office/Vanity/Bath	210.52(A) 210.52(E)(3) 210.70(B) 210.11(C)(3) '210.11(C)(3)	 The length of the cord is not less than 450 mm (18 in.) and not over 1.2 m (4 ft). Receptacles are located to protect against physical damage to the flexible cord. The receptacle is supplied by an individual branch circuit. The receptacle shall be accessible. The receptacle shall be accessible. The flexible cord shall have an equipment grounding conductor and be terminated with a grounding-type attachment plug. Exception: A listed appliance distinctly marked to identify it as protected by a system of double insulation shall not be required to be terminated with a grounding-type attachment plug. 210.52(A) General Provisions. In every kitchen, family room, diming room, living room, parlor, library, den, sunroom, bedroom, recreation room, or similar room or area of dwelling units, receptacle outlets shall be installed in accordance with the general provisions specified in 210.52(A)(1) through (A)(3). 210.52(E)(1) Balconies, Decks, and Porches. Balconies, decks, and porches that are attached to the dwelling unit and are accessible from inside the dwelling unit shall have at least one receptacle outlet accessible from the balcony, deck, or porch. The receptacle outlet shall not be located more than 2.0 m (6 ½ ft) above the balcony, deck, or porch. Walking surface. If the electrician feeds only a single bathroom with the one 20-amp branch circuit required in 210.11(C)(3), then the electrician may feed loads other than countertop and work surface receptacles in that bathroom. The NEC Offers no restrictions for the types of additional loads that can be served in this case. Assuming the electrician is complying with all manufacturer's specifications for the equipment installed in the bathroom, it is fair to say that all 120-Volt receptacles and loads, including lighting, can be served by this branch circuit when it is decicated to a single bathroom. It is always permissible to pu
	Entry/Mudrooms Patio Office/Vanity/Bath Garbage Disposal Kitchen-1	210.52(A) 210.52(E)(3) 210.70(B) 210.11(C)(3) '210.11(C)(3)	 The length of the cord is not less than 450 rm (18 in.) and not over 1.2 m (4 ft). Receptacles are located to protect against physical damage to the flexible cord. The receptacle is supplied by an individual branch circuit. The receptacle shall be accessible. The flexible cord shall have an equipment grounding conductor and be terminated with a grounding-type attachment plug. Exception: A listed appliance distinctly marked to identify it as protected by a system of doable insulation shall not be required to be terminated with a grounding-type attachment plug. 210.52(A) General Provisions. In every kitchen, family room, diming room, living room, parlor, library, den, sunroom, bedroom, recreation room, or similar room or area of dwelling units, receptacle outlets shall be installed in accordance with the general provisions specified in 210.52(A)(1) through (A)(3). 210.52(E)(1) Balconies, Decks, and Porches. Balconies, decks, and porches that are attached to the dwelling unit and are accessible from inside the balcony, deck, or porch. The receptacle outlet shall not be located more than 2.0 m (6 ½ ft) above the balcony, deck, or porch walking surface. If the electrician feeds only a single bathroom with the one 20-amp branch circuit required in 210.11(C)(3), then the electrician may feed loads other than countertop and work surface receptacles in that bathroom. The NEC offers no restrictions for the explored in stall all to baltrooms, in a dwelling. One branch circuit is simply the minimum permitted for a dwelling regardless of the number of bathrooms. It is always permissible to pull more than one 20-amp branch circuit for feeding the bathrooms in a dwelling. One branch circuit is simply the minimum permitted for a dwelling regardless of the number of bathrooms. It is always permissible to pull more than one 20-amp branch circuit for feeding the bathrooms in a dwelling. On

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SIZE (AWG)	AMP (60 DEG)	AMP (75 DEG)	AMP (90)
18		-	8
16	-	-	11
14	16	21	15
12	21	26	21
10	31	36	31
8	41	51	56
6	56	66	76
4	71	86	96
3	86	101	116
2	96	116	131
1	111	131	146

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	PANEL FEEDER S	IZE (CU)	
	NEC TABLE 310.15(B)(7)		
SERVICE AMPERAGE	SIZE	GROUND (250.66)	
100	4 AWG	8 AWG	
110	3 AWG	8 AWG	
125	2 AWG	8 AWG	
150	1 AWG	6 AWG	
175	1/0 AWG	6 AWG	
200	2/0 AWG	4 AWG	
225	3/0 AWG	4 AWG	
250	4/0 AWG	2 AWG	
300	250 KCMIL	2 AWG	
350	350 KCMIL	2 AWG	
400	400 KCMIL	170 AWG	

Dwelling Units:

All 120-volt, single-phase, 15- and 20-ampere branch circuits supplying outlets or devices installed in dwelling unit kitchens, family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, laundry areas, or similar rooms or areas shall be protected by any of the means described in 210.12(A)(1) through (6):

1 A listed combination-type arc-fault circuit interrupter installed to provide protection of the entire branch circuit

2 A listed branch/feeder-type AFCI installed at the origin of the branch-circuit in combination with a listed outlet branch-circuit-type arc-fault circuit interrupter installed at the first outlet box on the branch circuit. The first outlet box in the branch circuit shall be marked to indicate that it is the first outlet of the circuit.

3 A listed supplemental arc protection circuit breaker installed at the origin of the branch circuit in combination with a listed outlet branch-circuit-type arc-fault circuit interrupter installed at the first outlet box on the branch circuit where all of the following conditions are met: 1 The branch-circuit wiring shall be continuous from the branch-circuit overcurrent device to the outlet branch-circuit arc-fault circuit interrupter. 2 The maximum length of the branch-circuit wiring from the branch-circuit overcurrent device to the first outlet shall not exceed 15.2 m (50 ft) for a 14 AWG conductor or 21.3 m (70 ft) for a 12 AWG conductor. 3 The first outlet box in the branch circuit shall be marked to indicate that it is the first outlet of the circuit.

4 A listed outlet branch-circuit-type arc-fault circuit interrupter installed at the first outlet on the branch circuit in combination with a listed branch-circuit overcurrent protective device where all of the following conditions are met:

1 The branch-circuit wiring shall be continuous from the branch-circuit overcurrent device to the outlet branch-circuit arc-fault circuit interrupter. 2 The maximum length of the branch-circuit wiring from the branch-circuit overcurrent device to the first outlet shall not exceed 15.2 m (50 ft) for a 14 AWG conductor or 21.3 m (70 ft) for a 12 AWG conductor. 3 The first outlet box in the branch circuit shall be marked to indicate that it is the first outlet of the circuit.

4 The combination of the branch-circuit overcurrent device and outlet branch-circuit AFCI shall be identified as meeting the requirements for a system combination-type AFCI and shall be listed as such.

5 If metal raceway, metal wireways, metal auxiliary gutters, or Type MC, or Type AC cable meeting the applicable requirements of 250.118, with metal boxes, metal conduit bodies, and metal enclosures are installed for the portion of the branch circuit between the branch-circuit overcurrent device and the first outlet, it shall be permitted to install a listed outlet branch-circuit-type AFCI at the first outlet to provide protection for the remaining portion of the branch circuit.

6 Where a listed metal or nonmetallic conduit or tubing or Type MC cable is encased in not less than 50 mm (2 in.) of concrete for the portion of the branch circuit between the branch-circuit overcurrent device and the first outlet, it shall be permitted to install a listed outlet branch-circuit-type AFCI at the first outlet to provide protection for the remaining portion of the branch circuit.

Exception: AFCI protection shall not be required for an individual branch circuit supplying a fire alarm system installed in accordance with 760.41(B) or 760.121(B). The branch circuit shall be installed in a metal raceway, metal auxiliary gutter, steel-armored cable, Type MC or Type AC, meeting the applicable requirements of 250.118, with metal boxes, conduit bodies, and enclosures.

Informational Note No. 1: For information on combination-type and branch/feeder-type arc-fault circuit interrupters, see UL 1699-2011, Standard for Arc-Fault Circuit Interrupters. For information on outlet branchcircuit type arc-fault circuit interrupters, see UL Subject 1699A, Outline of Investigation for Outlet Branch Circuit Arc-Fault Circuit-Interrupters. For information on system combination AFCIs, see UL Subject 1699C, Outline of Investigation for System Combination Arc-Fault Circuit Interrupters.

Informational Note No. 2: See 29.6.3(5) of NFPA 72-2013, National Fire Alarm and Signaling Code, for information related to secondary power-supply requirements for smoke alarms installed in dwelling units. Informational Note No. 3: See 760.41(B) and 760.121(B) for power-supply requirements for fire alarm systems.

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ELECTRICAL - PANEL NOTES

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SCALE: NO SCALE

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KEYED NOTES

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1. PROVIDE 120 VOLT CONNECTION TO IN-SINK GARAGE DISPOSAL. COORDINATE FINAL CONNECTION WITH KITCHEN EQUIPMENT INSTALLER.

2. PROVIDE 120 VOLT RECEPTACLE TO UNDER COUNTER DISHWASHER. COORDINATE FINAL CONNECTION WITH KITCHEN EQUIPMENT INSTALLER.

3. PROVIDE 120 VOLT CONNECTION TO HOOD CONTROL SYSTEM. COORDINATE CONNECTION WITH SYSTEM INSTALLER

4. PROVIDE 220 VOLT, SINGLE PHASE RECEPTACLE TO ELECTRIC DRYER LOCATION. COORDINATE CONNECTION WITH SYSTEM INSTALLER

5. PROVIDE 120 VOLT RECEPTACLE FOR LAUNDRY CLOTHES WASHER. COORDINATE FINAL LOCATION OF RECEPTACLE WITH INSTALLER.

6. PROVIDE 120 VOLT RECEPTACLE FOR KITCHEN REFRIGERATOR. COORDINATE FINAL LOCATION OF RECEPTACLE WITH INSTALLER.

7. PROVIDE 120 VOLT RECEPTACLE FOR UNDER COUNTER BAR REFRIGERATOR. COORDINATE FINAL LOCATION OF RECEPTACLE WITH INSTALLER.

8. PROVIDE 120 VOLT RECEPTACLE FOR KITCHEN MICROWAVE. COORDINATE FINAL LOCATION OF RECEPTACLE WITH INSTALLER.

9. PROVIDE 240 VOLT RECEPTACLE FOR KITCHEN ELECTRIC RANGE. COORDINATE FINAL LOCATION OF RECEPTACLE WITH INSTALLER.

10. PROVIDE 240 VOLT CONNECTION FOR ELECTRIC HOT WATER HEATER

GENERAL NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR CONTINUED CONSTRUCTION AND SCOPE DOCUMENTATION, DIMENSIONS AND LOCATIONS OF NEW DEVICES, APPLIANCE OPENING SIZES. IF ANY CONFLICTS BETWEEN DRAWINGS OCCUR, PLEASE CONTACT THE ENGINEER OR ARCHITECT FOR CLARIFICATION.

2. CONTRACTOR TO COORDINATE FINAL KITCHEN APPLIANCES WITH KITCHEN EQUIPMENT

PROVIDER, CUSTOMER AND DESIGN TEAM PRIOR TO FINAL INSTALL AND ROUGH IN. FINAL LAYOUTS OF APPLIANCES MAY CHANGE AND COORDINATION WILL BE REQUIRED WITH DESIGN TEAM AND CONTRACTORS FOR ANY MADE CHANGES.

3. ARC FAULT CIRCUIT INTERRUPTERS (AFCI), PER NEC, REQUIRED IN ALL LIVING AREAS

ESDENVER VERADYN ENGIN 441 WADSWORTH E LAKEWOOD, 0 720.612.1 DUSTIN@ESDE	EERING, LLC 8LVD, SUITE 206 CO 80226 7553	1
Reviewed f Code Complia 02/02/202	ance	2
	345 Lincoln Ave., #205 Steamboat Springs, CO 80487	3
MAT	345 Lin Steamb	4
DRAWN BY: J.F. CHECKED BY: D.R. REVISIONS: No. DESCRIPTION	DATE	5
Image: Constraint of the second se		6
SHEET CONTENTS: PROJECT NO.: 9923 DATE: 11/30 DRAWING NO.: E2.	0/2021	7
COLORADO L/C COLOISTIN RVICTOR DISTIN RVICTOR DISTIN RVICTOR DISTIN RVICTOR DISTIN RVICTOR DISTIN RVICTOR		8

PENDANT LIGHTING (STYLE/HEIGHT TO TBD)

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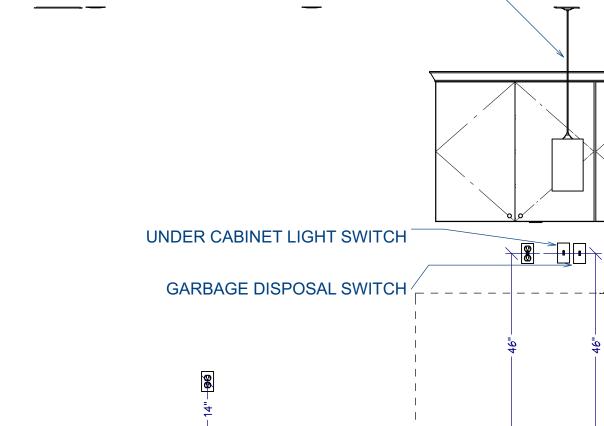
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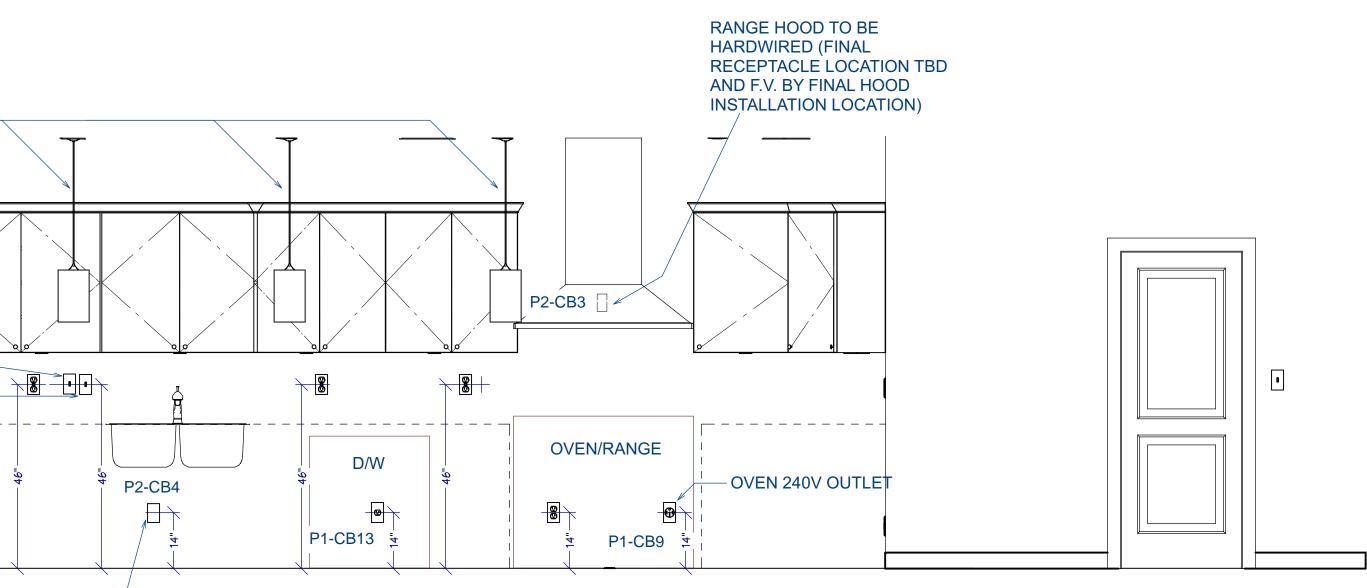
GARBAGE DISPOSAL OUTLET

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WASHER HOOKUP BOX -

WASHER DRAIN STANDPIPE (MIN. 18", MAX 48") -



F

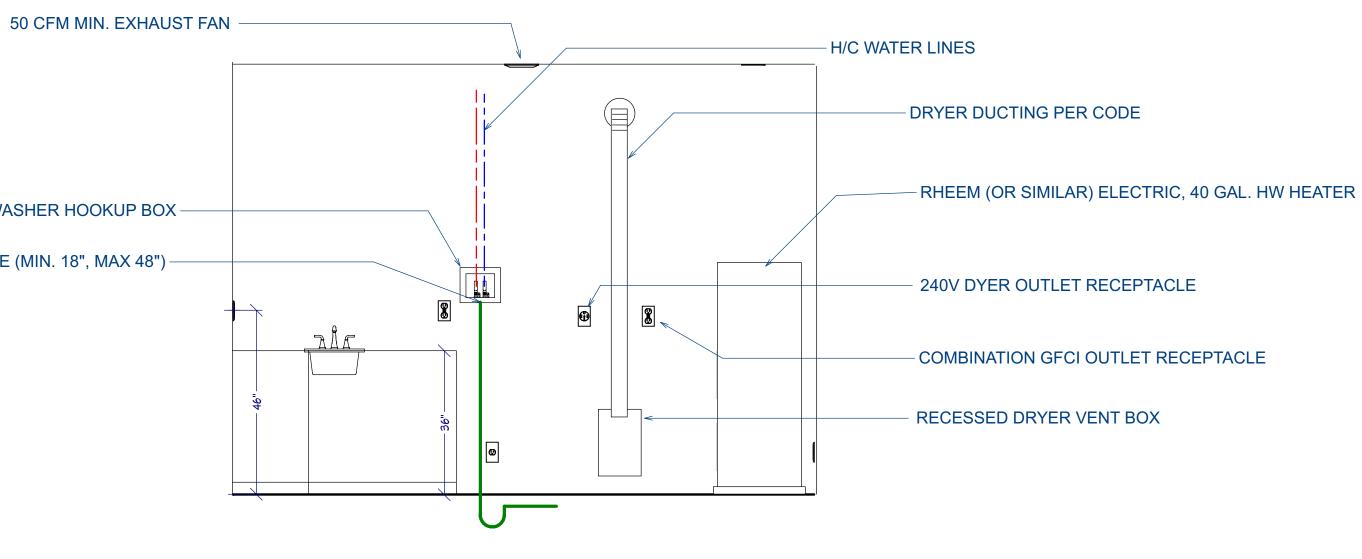
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Elevation 1



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Elevation 2

CROSS SECTIONS

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SCALE: 1/2" = 1 FT.

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