

**DRAWING REFERENCE NOTES**

- ① CEILING SEMI-RECESS MOUNTED COOLING ONLY CASSETTE UNIT.
- ② CONDENSATE PUMP ABOVE CEILING. PROVIDE COPPER DRAIN PIPE TO ROOF.
- ③ REFRIGERANT CONDENSATE LINES UP TO ROOF.

**25**  
years of design

**John F. Heltzel**  
AIA

9389 FORESTWOOD LANE  
MANASSAS, VIRGINIA 20110  
PHONE 703-330-6170  
FAX 703-361-8671  
WWW.HELTELAI.AIA.COM

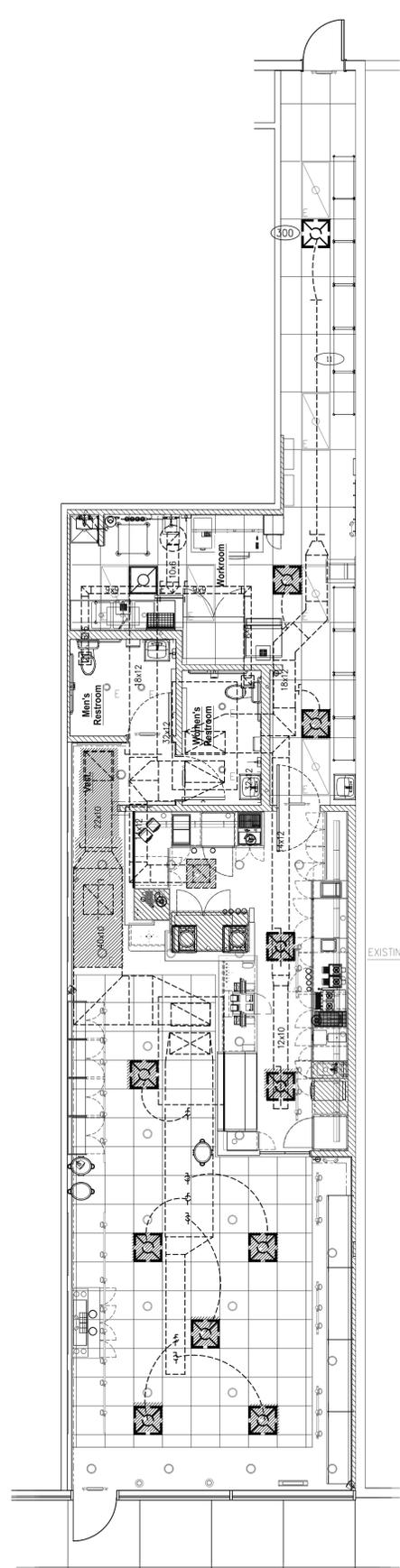
**CETECH ENGINEERS INC.**  
Consulting Engineers

**Mechanical Electrical Fire Protection**

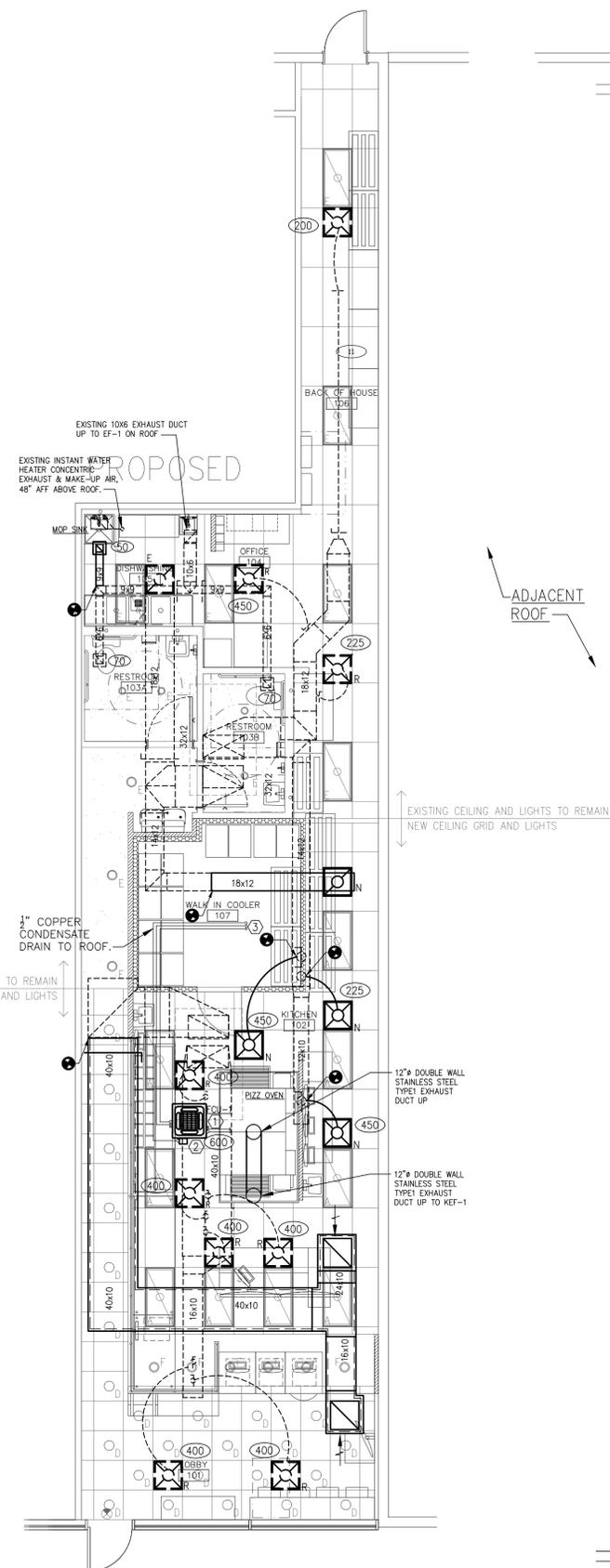
9990 FAIRFAX BLVD.  
SUITE 510  
FAIRFAX, VA. 22030  
VOICE: 703-385-2558  
FAX: 703-385-2557  
EMAIL: JAS@CETECHENGINEERS.COM

**DOMINIO'S STORE #4373**  
8068 ROLLING RD  
SPRINGFIELD, VA 22153

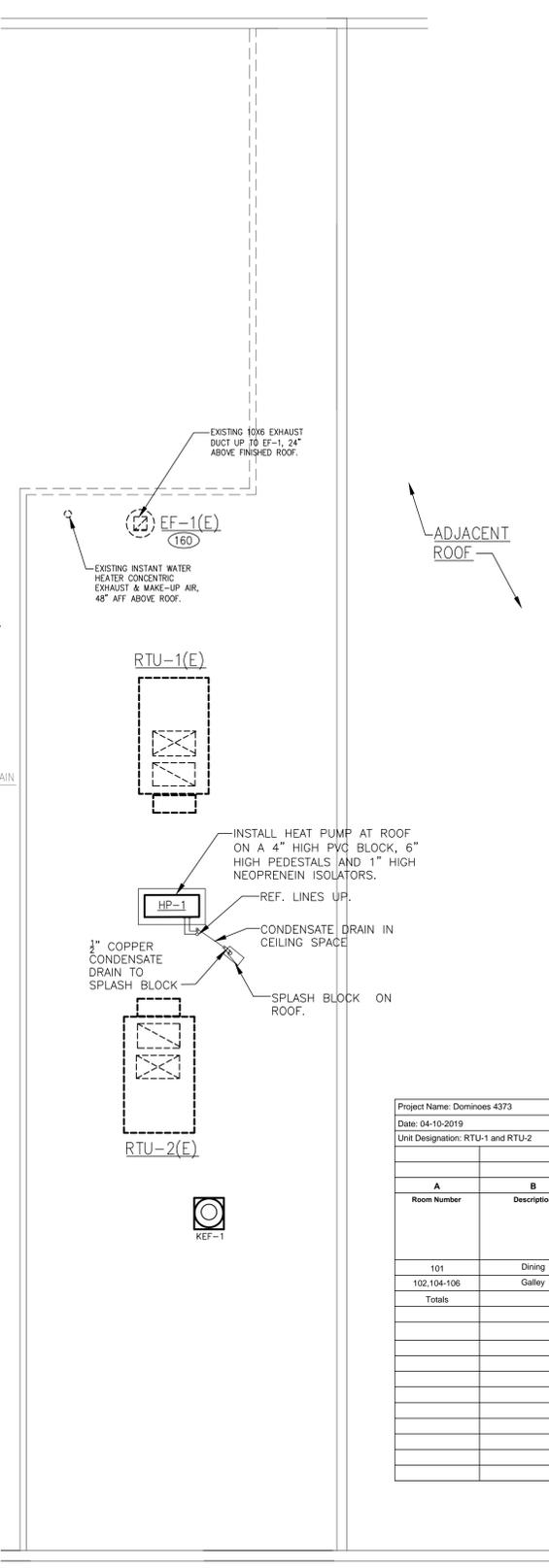
**MECHANICAL PLANS**



**MECHANICAL DEMOLITION PLAN**  
SCALE: 3/16" = 1'-0"

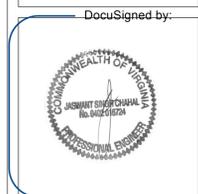


**MECHANICAL NEW PLAN**  
SCALE: 3/16" = 1'-0"



**MECHANICAL ROOF PLAN**  
SCALE: 3/16" = 1'-0"

Project Name: Dominio's 4373		Units Total Supply Air: 4400 CFM													
Date: 04-10-2019		Units Total Outdoor Air: 1450 CFM													
Unit Designation: RTU-1 and RTU-2		Outdoor Air Req: 318 CFM (7%)													
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
Room Number	Description	Area (ft²) (Aa)	Area Outdoor Air Rate per VMC Table 403.3 (Ra)	Area Outdoor Air (RaA)	Occupant Load Rate per VMC Table 403.3 (People/1000 ft²) (Rp)	Occupancy C x P/1000 (Pc)	Occupant Outdoor Air Rate per VMC Table 403.3 (Rp)	Occupant Outdoor Air (RpA)	Breathing Zone Outdoor Air (Vbz = RpPz + RaA)	Zone Air Distribution Effectiveness (Ez)	Zone Outdoor Air (Voz = Vbz / Ez)	Supply Air Design (Vsz)	Secondary Recirculated Air	Outdoor Air Fraction (Zp = Voz / Vpz)	
101	Dining	336	0.18	60	70	24	7.5	180	240	0.8	300	3600	0	0.083	
102,104-106	Galley	884	0.06	53	5	5	5	25	78	0.8	98	800	0	0.123	
Totals		1220		113		29		205	318		398	4400	0	0.123	
Occupant Diversity D = Ps/Σall zones Pz									Total Required Outdoor Air						Ev
1.000									318						1.000
Unconnected O.A. Vou = D Σall zones RpPz + Σall zones RaAz									Percentage of Outdoor Air						Method
318									7%						IMC Chart



DATE: 11/21/2019  
ISSUE FOR PERMIT

SHEET  
**M002**  
219033.00