

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.HELTZELAIA.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

DocuSigned by:

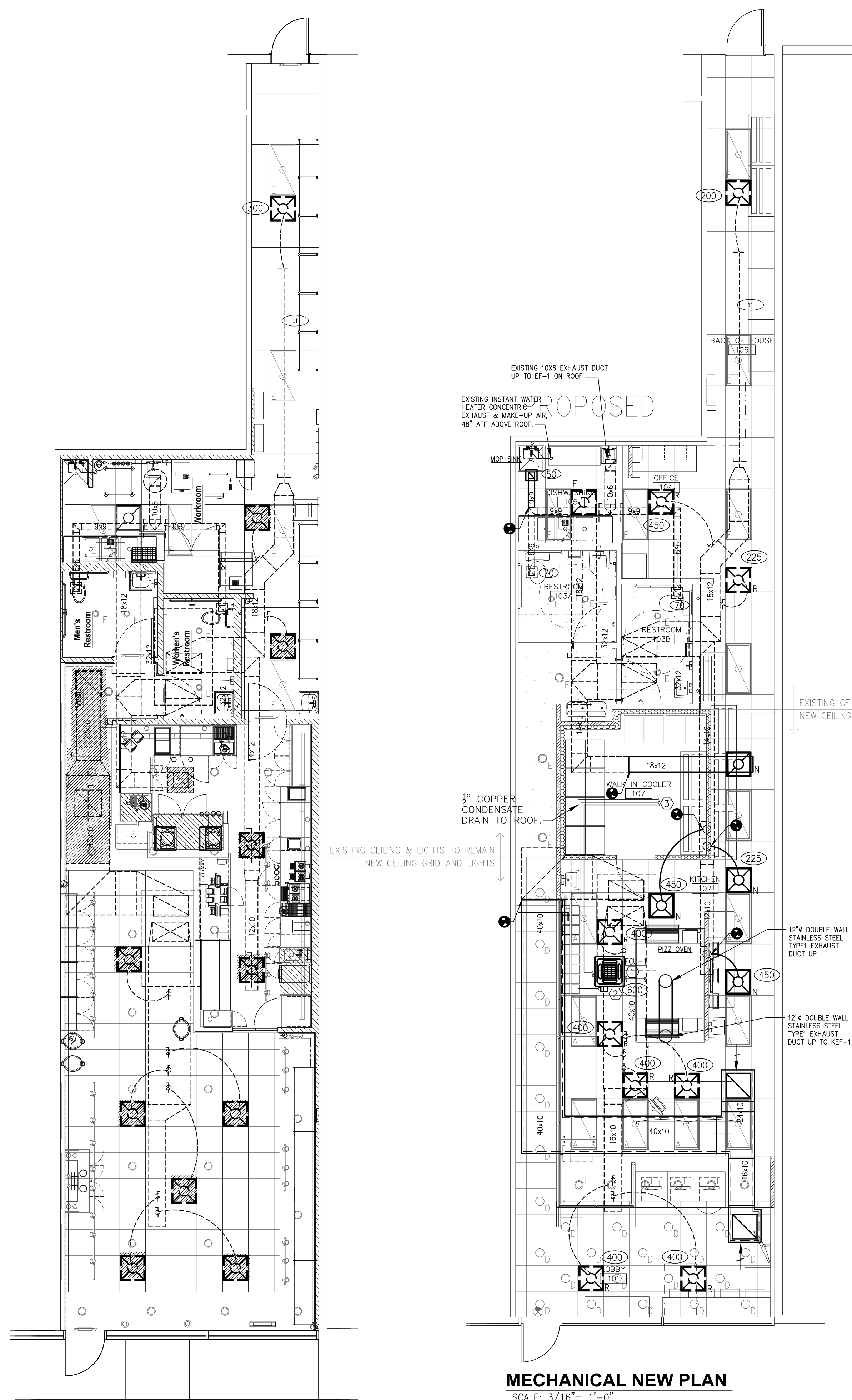


DATE:	11/21/2019 ISSUE FOR PERMIT
-------	--------------------------------

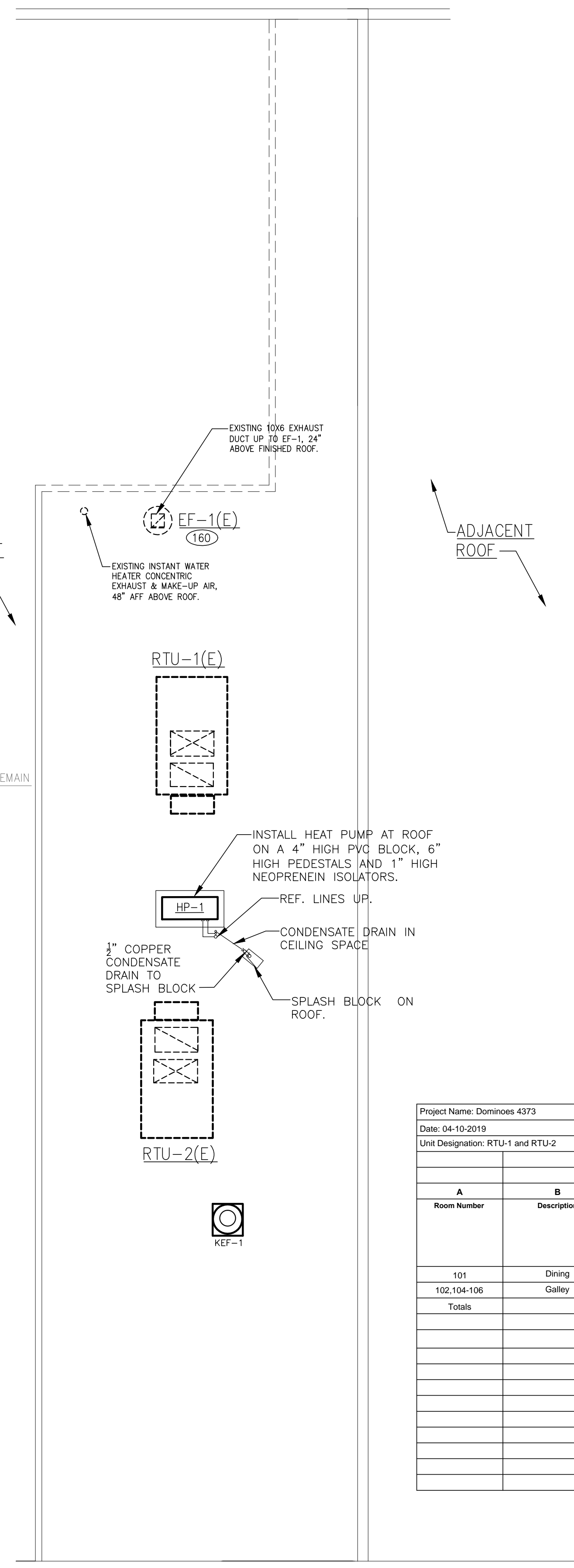
SHEET

M002

219033.00



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



MECHANICAL ROOF PLAN

Project Name: Dominos 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) (Az)	Area Outdoor Air Rate per VMC Table 463.3 (Ra)	Area Outdoor Air (RaAz)	Occupant Load Rate per VMC Table 463.3 (Phoor)/ 1000 ft²)	Occupancy C x Ft¹⁰⁰⁰ (Pz)	Occupant Outdoor Air Rate per VMC Table 463.3 (Rp)	Occupant Outdoor Air (RpPt)	Breathing Zone Outdoor Air (Vbz = RpPt + RaAz)	Zone Air Distribution Effectiveness (Ez)	Zone Outdoor Air (Voz = Vbz / Ez)	Supply Air Design (Vpz)	Secondary Recirculated Air	Outdoor Air Fraction (Zp = Voz / Vpz)	
101	Dining	336	0.18	60	70	24	7.5	180	240	0.8	300	2600	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	
														Ev	
Occupant Diversity D = Pz/∑all zones Pz										Total Required Outdoor Air					1,000
1.000										318					
Uncorrected O.A. Vou = D ∑all zones RpPz + ∑all zones RaZ															
318										7%					IMC Chart

MECHANICAL DEMOLITION PLAN