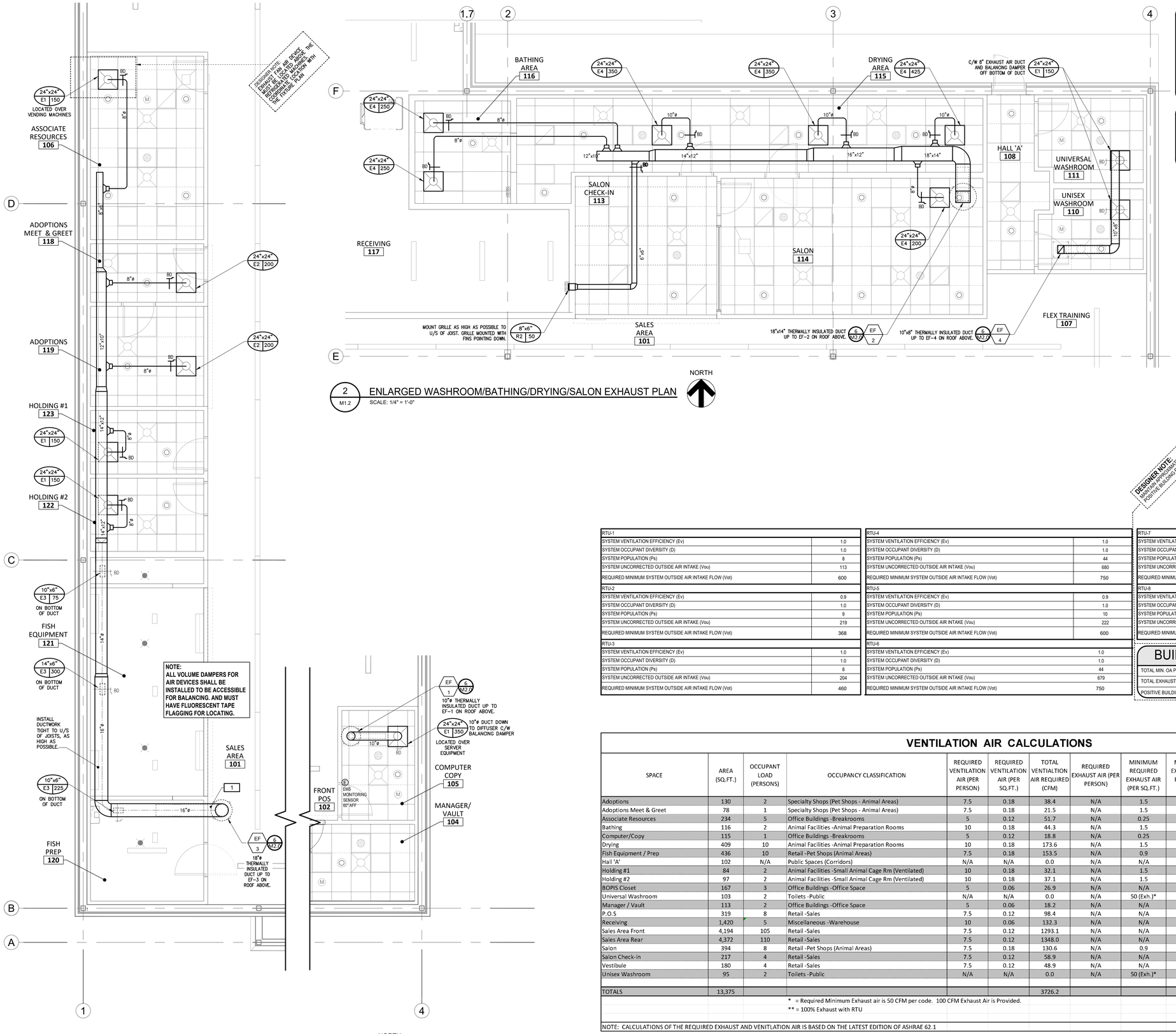

2 M1.2 ENLARGED WASHROOM/BATHING/DRYING/SALON EXHAUST PLAN
SCALE: 1/4" = 1'-0"

1 M1.2 ENLARGED VESTIBULE/OFFICES/STAFF/FISH/ADOPTIONS EXHAUST PLAN
SCALE: 1/4" = 1'-0"

NOTES TYPICAL FOR ALL DUCTWORK:

A. ALL VOLUME DAMPERS FOR AIR DEVICES SHALL BE INSTALLED TO BE ACCESSIBLE FOR BALANCING.

B. ALL DAMPERS MUST HAVE FLUORESCENT TAPE FLAGGING FOR LOCATING.

C. **ALL EQUIPMENT, WATER LINES, CEILING GRID, HVAC DUCTWORK, ROOF LEADER PIPING, CONDUITS, LIGHT FIXTURES, AND FIRE SPRINKLER LINES MUST BE SUSPENDED FROM THE JOISTS ONLY. DO NOT LAY ALONG THE BOTTOM CHORD OF JOISTS OR SUSPEND FROM THE ROOF DECK.**

HVAC KEY NOTES:

#	
1	RUN DUCTWORK TIGHT TO U/S OF JOISTS.

DESIGNER NOTE: MAKE-UP AIR VOLUME: 2,000 CFM POSITIVE BUILDING PRESSURE.

RTU-1	
SYSTEM VENTILATION EFFICIENCY (Ev)	1.0
SYSTEM OCCUPANT DIVERSITY (D)	1.0
SYSTEM POPULATION (Ps)	8
SYSTEM UNCORRECTED OUTSIDE AIR INTAKE (Vou)	113
REQUIRED MINIMUM SYSTEM OUTSIDE AIR INTAKE FLOW (Vot)	600

RTU-2	
SYSTEM VENTILATION EFFICIENCY (Ev)	0.9
SYSTEM OCCUPANT DIVERSITY (D)	1.0
SYSTEM POPULATION (Ps)	9
SYSTEM UNCORRECTED OUTSIDE AIR INTAKE (Vou)	219
REQUIRED MINIMUM SYSTEM OUTSIDE AIR INTAKE FLOW (Vot)	368

RTU-3	
SYSTEM VENTILATION EFFICIENCY (Ev)	1.0
SYSTEM OCCUPANT DIVERSITY (D)	1.0
SYSTEM POPULATION (Ps)	8
SYSTEM UNCORRECTED OUTSIDE AIR INTAKE (Vou)	204
REQUIRED MINIMUM SYSTEM OUTSIDE AIR INTAKE FLOW (Vot)	460

RTU-4	
SYSTEM VENTILATION EFFICIENCY (Ev)	1.0
SYSTEM OCCUPANT DIVERSITY (D)	1.0
SYSTEM POPULATION (Ps)	44
SYSTEM UNCORRECTED OUTSIDE AIR INTAKE (Vou)	680
REQUIRED MINIMUM SYSTEM OUTSIDE AIR INTAKE FLOW (Vot)	750

RTU-5	
SYSTEM VENTILATION EFFICIENCY (Ev)	0.9
SYSTEM OCCUPANT DIVERSITY (D)	1.0
SYSTEM POPULATION (Ps)	10
SYSTEM UNCORRECTED OUTSIDE AIR INTAKE (Vou)	222
REQUIRED MINIMUM SYSTEM OUTSIDE AIR INTAKE FLOW (Vot)	600

RTU-6	
SYSTEM VENTILATION EFFICIENCY (Ev)	1.0
SYSTEM OCCUPANT DIVERSITY (D)	1.0
SYSTEM POPULATION (Ps)	44
SYSTEM UNCORRECTED OUTSIDE AIR INTAKE (Vou)	679
REQUIRED MINIMUM SYSTEM OUTSIDE AIR INTAKE FLOW (Vot)	750

RTU-7	
SYSTEM VENTILATION EFFICIENCY (Ev)	1.0
SYSTEM OCCUPANT DIVERSITY (D)	1.0
SYSTEM POPULATION (Ps)	44
SYSTEM UNCORRECTED OUTSIDE AIR INTAKE (Vou)	681
REQUIRED MINIMUM SYSTEM OUTSIDE AIR INTAKE FLOW (Vot)	750

RTU-8	
SYSTEM VENTILATION EFFICIENCY (Ev)	1.0
SYSTEM OCCUPANT DIVERSITY (D)	1.0
SYSTEM POPULATION (Ps)	0
SYSTEM UNCORRECTED OUTSIDE AIR INTAKE (Vou)	217
REQUIRED MINIMUM SYSTEM OUTSIDE AIR INTAKE FLOW (Vot)	460

BUILDING AIR BALANCE CALCULATIONS

TOTAL MIN. OA PROVIDED (RTU1- THRU RTU-8)	4738 CFM
TOTAL EXHAUST (EF-1 THRU EF-4)	3975 CFM
POSITIVE BUILDING PRESSURE CFM	763 CFM

VENTILATION AIR CALCULATIONS

SPACE	AREA (SQ.FT.)	OCCUPANT LOAD (PERSONS)	OCCUPANCY CLASSIFICATION	REQUIRED VENTILATION AIR (PER PERSON)	REQUIRED VENTILATION AIR (PER SQ.FT.)	TOTAL VENTIALTION AIR REQUIRED (CFM)	REQUIRED EXHAUST AIR (PER PERSON)	MINIMUM REQUIRED EXHAUST AIR (PER SQ.FT.)	MINIMUM EXHAUST AIR REQUIRED (CFM)	TOTAL EXHAUST AIR PROVIDED (CFM)	TOTAL SUPPLY AIR PROVIDED (CFM)	TOTAL VENTILATION AIR PROVIDED (CFM)	SYSTEM(S) PROVIDING OUTDOOR AIR (UNIT MARK)
Adoptions	130	2	Specialty Shops (Pet Shops - Animal Areas)	7.5	0.18	38.4	N/A	1.5	195.0	200	150	47	RTU-5 AND EF-3
Adoptions Meet & Greet	78	1	Specialty Shops (Pet Shops - Animal Areas)	7.5	0.18	21.5	N/A	1.5	117.0	200	150	30	RTU-5 AND EF-3
Associate Resources	234	5	Office Buildings -Breakrooms	5	0.12	51.7	N/A	0.25	58.5	150	600	89	RTU-5 AND EF-3
Bathing	116	2	Animal Facilities -Animal Preparation Rooms	10	0.18	44.3	N/A	1.5	174.0	500	375	58	RTU-3 AND EF-2
Computer/Copy	115	1	Office Buildings -Breakrooms	5	0.12	18.8	N/A	0.25	28.8	350	200	30	RTU-1 AND EF-1
Drying	109	10	Animal Facilities -Animal Preparation Rooms	10	0.18	173.6	N/A	1.5	613.5	1125	1125	190	RTU-3 AND EF-2
Fish Equipment / Prep	436	10	Retail -Pet Shops (Animal Areas)	7.5	0.18	153.5	N/A	0.9	392.4	600	1250	206	RTU-5 AND EF-3
Hall 'A'	102	N/A	Public Spaces (Corridors)	N/A	N/A	0.0	N/A	N/A	0.0	0	150	40	RTU-3
Holding #1	84	2	Animal Facilities -Small Animal Cage Rm (Ventilated)	10	0.18	32.1	N/A	1.5	126.0	150	125	41	RTU-5 AND EF-3
Holding #2	97	2	Animal Facilities -Small Animal Cage Rm (Ventilated)	10	0.18	37.1	N/A	1.5	145.5	150	125	42	RTU-5 AND EF-3
BOPIS Closet	167	3	Office Buildings -Office Space	5	0.06	26.9	N/A	N/A	0.0	0	300	30	RTU-1
Universal Washroom	103	2	Toilets -Public	N/A	N/A	0.0	N/A	50 (Exh.)*	50.0	150	100	20	RTU-3 AND EF-4
Manager / Vault	113	2	Office Buildings -Office Space	5	0.06	18.2	N/A	N/A	0.0	0	200	29	RTU-1
P.O.S	319	8	Retail -Sales	7.5	0.12	98.4	N/A	N/A	0.0	0	500	68	RTU-4
Receiving	1,420	5	Miscellaneous -Warehouse	10	0.06	132.3	N/A	N/A	0.0	50	2000	190	RTU-8
Sales Area Front	4,194	105	Retail -Sales	7.5	0.12	1293.1	N/A	N/A	0.0	0	3300	1235	RTU-4 AND RTU-1
Sales Area Rear	4,372	110	Retail -Sales	7.5	0.12	1348.0	N/A	N/A	0.0	0	6000	2013	RTU-6 AND RTU-7
Salon	394	8	Retail -Pet Shops (Animal Areas)	7.5	0.18	130.6	N/A	0.9	354.6	200	1300	150	RTU-2
Salon Check-in	217	4	Retail -Sales	7.5	0.12	58.9	N/A	N/A	0.0	0	300	108	RTU-2
Vestibule	180	4	Retail -Sales	7.5	0.12	48.9	N/A	N/A	0.0	0	900	103	RTU-1
Unisex Washroom	95	2	Toilets -Public	N/A	N/A	0.0	N/A	50 (Exh.)*	50.0	150	100	20	RTU-3 AND EF-4
TOTALS	13,375					3726.2			2305.3	3975	19250	4738	

* = Required Minimum Exhaust air is 50 CFM per code. 100 CFM Exhaust Air is Provided.
** = 100% Exhaust with RTU

NOTE: CALCULATIONS OF THE REQUIRED EXHAUST AND VENITLATION AIR IS BASED ON THE LATEST EDITION OF ASHRAE 62.1

CLIENT:
PETSMART
19601 North 27th Avenue
Phoenix, Arizona 85027 - (623) 580-6100

CLIENT REF #: 1234

PROJECT:
14K 2026 CANADIAN INSTRUCTION SET

AUGUST 05, 2026

CONSULTANT:

ARCHITECT:

SEAL:

CITY SEAL:

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THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR:

NUMBER	ISSUE	DATE

PROJECT NO: CA0073426.0987
DATE: 05.08.26
ORIGINAL SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:
PAGE #: 38 OF: 54
IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE. 1"

DISCIPLINE: MECHANICAL

TITLE:
ENLARGED EXHAUST AIR FLOOR PLANS

SHEET NUMBER:
M1.2