REVISIONS					
REV.	EN NO.	DATE	DESCRIPTION	DRAWN BY	APPROVED
A		03/25/25	INITIAL RELEASE	LAA	

NOTES:

1. TEMPERATURE SENSORS MUST BE LOCATED IN THE CORRECT TANK LOCATION. TOTAL TANK VOLUME AND SENSOR LOCATION MUST BE DETERMINED SO THAT MINIMUM HOT WATER STORAGE VOLUME IS SUFFICIENT FOR PEAK LOADS AND THE DISTANCE BETWEEN THE "ON" AND "OFF" SENSORS MUST GIVE SUFFICIENT CYCLING VOLUME TO PROVIDE A MINIMUM TEN (10) MINUTES OF RUN TIME PER HEAT PUMP MODULE INSTALLED. UP TO SIX (6) SENSORS MAY BE REQUIRED TO MEET ALL DEMAND REQUIREMENTS. REFERENCE THE SIMCOE CONTROLS INSTALLATION AND OPERATION MANUAL FOR FULL DETAILS.

2. TO MAXIMIZE STRATIFICATION EFFECT, TANKS MUST HAVE A HEIGHT/DIAMETER ASPECT RATIO OF AT LEAST 3:1 AND UTILIZE HORIZONTAL INLETS AND OUTLETS WITH LOW VELOCITY <0.25 FT/S [7.6 CM/S].

3. BACK FLOW PREVENTER, VACUUM BREAKER & THERMAL EXPANSION TANK MAY BE REQUIRED, CHECK LOCAL CODES.

4. CAUTION: MEASURE WATER HARDNESS AND PH AT JOB SITE. WATER QUALITY PARAMETERS MUST BE MAINTAINED.

5. HOT WATER TANKS SHOULD BE EQUIPPED WITH A COMBINATION TEMPERATURE & PRESSURE RELIEF VALVE. VALVE SHALL DISCHARGE TO A SAFE POINT OF DISCHARGE. REFER TO LOCAL CODES.

6. WATER PIPING EXPOSED TO FREEZING CONDITIONS, BETWEEN HEAT PUMP AND INTERIOR BUILDING, MUST BE INSULATED AND HEAT TRACE FULLY APPLIED.

7. CONDENSATE PIPING MUST BE INSULATED & HEAT TRACED AND PROPERLY PITCHED TO A SAFE POINT OF DISCHARGE. REFER TO LOCAL CODES FOR PROPER PITCH REQUIREMENTS.

8. COMMON PIPING MUST BE SIZED FOR MAXIMUM COMBINED SYSTEM FLOW.

9. A THERMOSTATIC MIXING VALVE MAY BE REQUIRED AT OUTLET OF THE SWING TANK IN ORDER TO LIMIT THE MIXED WATER TO A DESIRABLE TEMPERATURE HELPING TO PREVENT SCALDING AND INJURY. CONSULT LOCAL CODES.

10. THE BACK UP/SWING TANK MUST PROVIDE ADEQUATE HEAT TO MEET THE DEMAND OF THE RECIRC HEAT LOSS AND PROVIDE FULL BACK UP RESISTIVE HEAT AS DESIGNED.

NOTICE: THESE DRAWINGS SHOW SUGGESTED PIPING CONFIGURATION AND ARE A DIAGRAMMATIC REPRESENTATION OF A TYPICAL PIPING STYLE. ADDITIONAL VALVING MAY BE REQUIRED. CHECK LOCAL CODES AND ORDINANCES FOR SPECIFIC REQUIREMENTS.

THIRD ANGLE PROJECTION

DRAWING DESCRIPTION: PIPING, SIMCOE HPWH SYSTEM - NOTES

DRAWN BY: LAA	DATE: 03/25/25	DIVISION: TRANSOM
CHECKED BY	DATE	PRODUCT: N/A
APPROVED BY	DATE	PART NUMBER: N/A

TOLERANCES UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES DO NOT SCALE DRAWING

.X = ± .030 X/X DIMS ≤ 12 = ± 1/32
.XX = ± .010 X/X DIMS > 12 = ± 1/16
.XXX = ± .005 CAST DIMS ≤ 12 = ± 1/32
.XXXX = ± .0010 CAST DIMS > 12 = ± 1/16

ANGLE = ±.5°
BREAK ALL EDGES = ±.005/.015

DRAWING NUMBER: TIOM-0010
PROTOTYPE PART NUMBER: N/A

SHEET	SHEET SIZE	SCALE	REVISION
1 OF 1	B	1:10	A