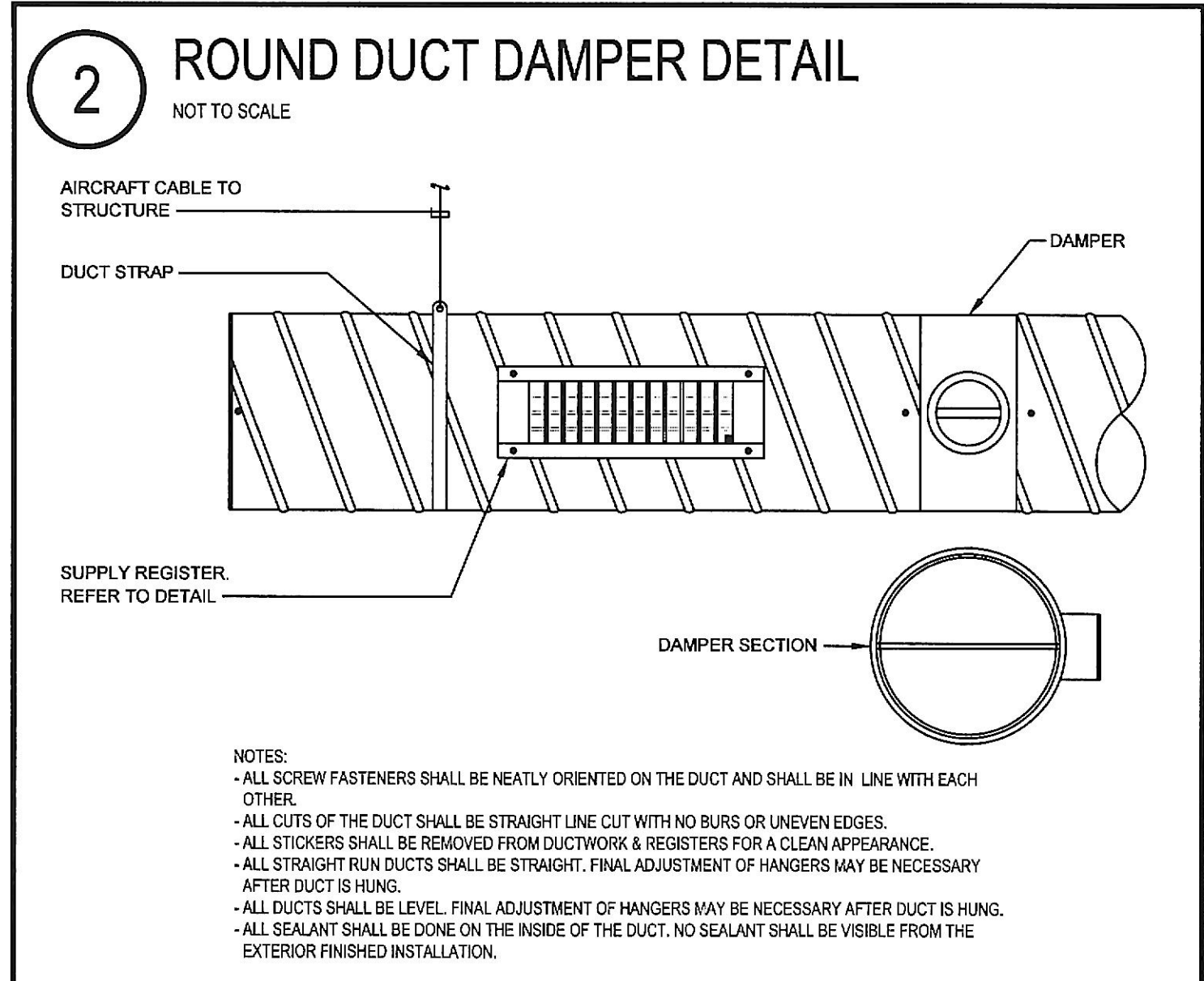
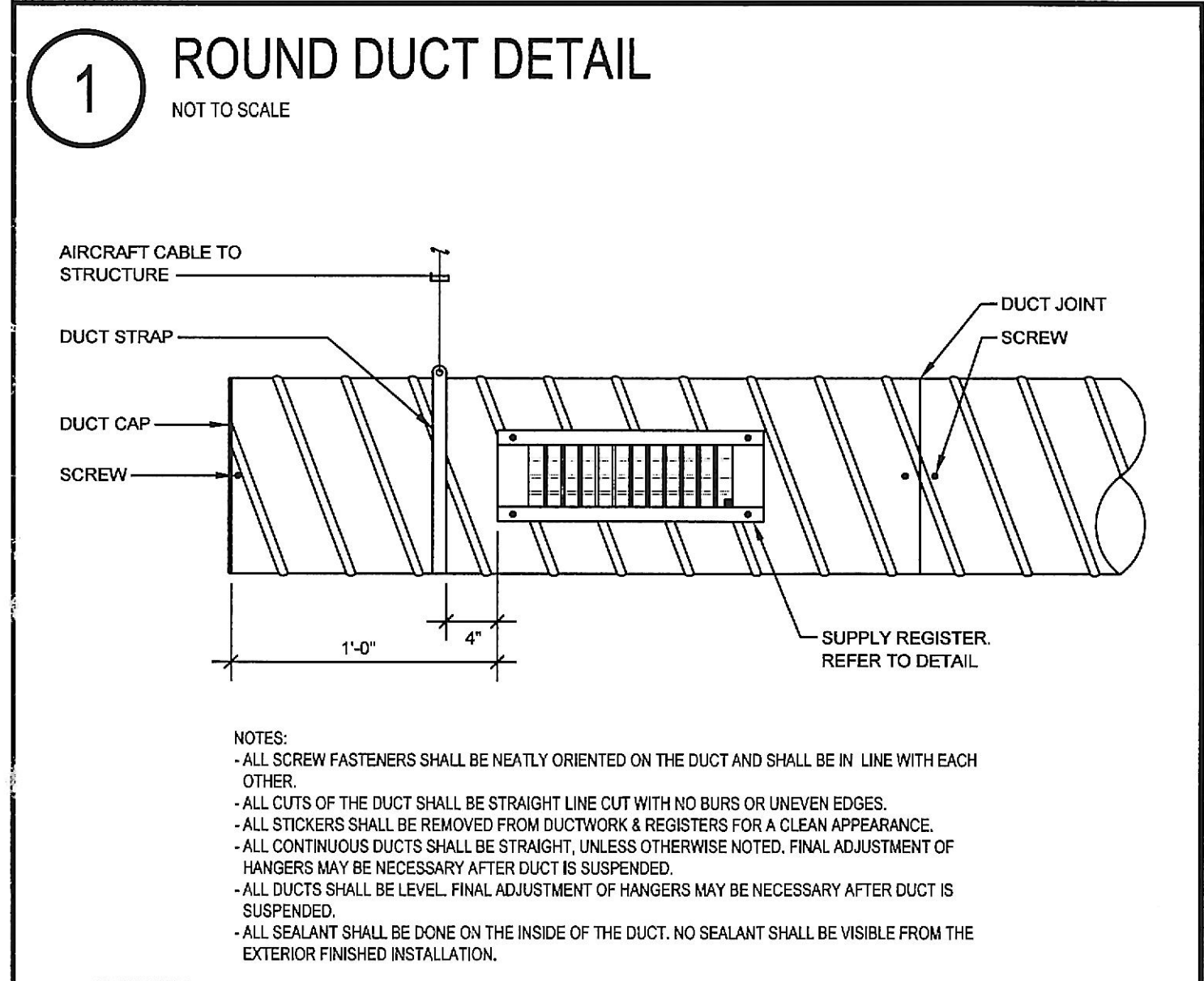


EX.AHU-1 & 2 VENTILATION CALCULATIONS												
IMC 2012												
Project Name: MICA												
Arium Project #: MILV-3F16												
Air Handling Unit #: AHU1-2												
Room	Area (ft ²) AZ	Area Outdoor Air Rate Per IMC Table 403.3 RA	Area Outdoor RaAz (CFM)	Occupant Load Rate Per IMC Table 403.3 (People/ft2)	Occupancy C*/F/1000 PZ	Occupant Outdoor Air Rate Per Table 403.3 Rp	Occupant Outdoor Air RpPz (CFM)	Breathing Zone Outdoor Air Vbz=RpPz+RaAz (CFM)	Zone Air Distribution Effectiveness Ez	Zone Outdoor Air Voz=Vbz/Ez (CFM)	Supply Air Design Vpz	Outdoor Air Fraction Zp=Voz/Vpz
301 Open Office	930	0.06	55.8	5	4.65	5	23.3	79.05	0.8	98.8	3,070	0.03
302 Office	200	0.06	12	5	1	5	5.0	17	0.8	21.3	330	0.06
304 Copy Room	65	0.06	3.9	4	0.26	5	1.3	5.2	0.8	6.5	200	0.03
305 Office	115	0.06	6.9	5	0.575	5	2.9	9.775	0.8	12.2	200	0.06
Totals								Vou = 111.0			3,800	Max Zp = 0.06
* Ventilation provide via operable windows.					Required Design Information: Total Req'd Outdoor Air (Vot = Vou/Ev) 111.0 CFM Percentage of Outdoor Air: 2.9%			Actual Design Information: AHU1-2 3800 Supply Air CFM * Ventilation CFM			Ev = 1.0	



REV. NO.	DATE	DESCRIPTION

STRUCTURAL:
SKARDA AND ASSOCIATES
 203 NORTH CHARLES STREET
 BALTIMORE, MARYLAND 21201
 410-398-9361

PROJECT MANAGER:
M.I.C.A.
 1000 MOUNT ROYAL AVENUE
 BALTIMORE, MARYLAND 21201
 410-462-7801

5827 TOWN HILLS ROAD
 SUITE 405
 BALTIMORE, MARYLAND 21206
 410-528-2900
 www.ariumae.com

ARIUM | AE

PROJECT:
M.I.C.A. ANNEX BLDG
 THIRD FLOOR
 1000 MOUNT ROYAL STREET
 BALTIMORE, MARYLAND

TITLE: DETAILS AND SCHEDULES - MECHANICAL
 PROJECT FILE NAME: MILV-3F16
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LATEST REVISION: 5/20/16
 DESIGNED BY: PMS
 CHECKED BY: PMS
 DRAWN BY: PMS

DWG NO. **M3**

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A duly LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NUMBER: 31832 EXP. DATE: 9/14/2017