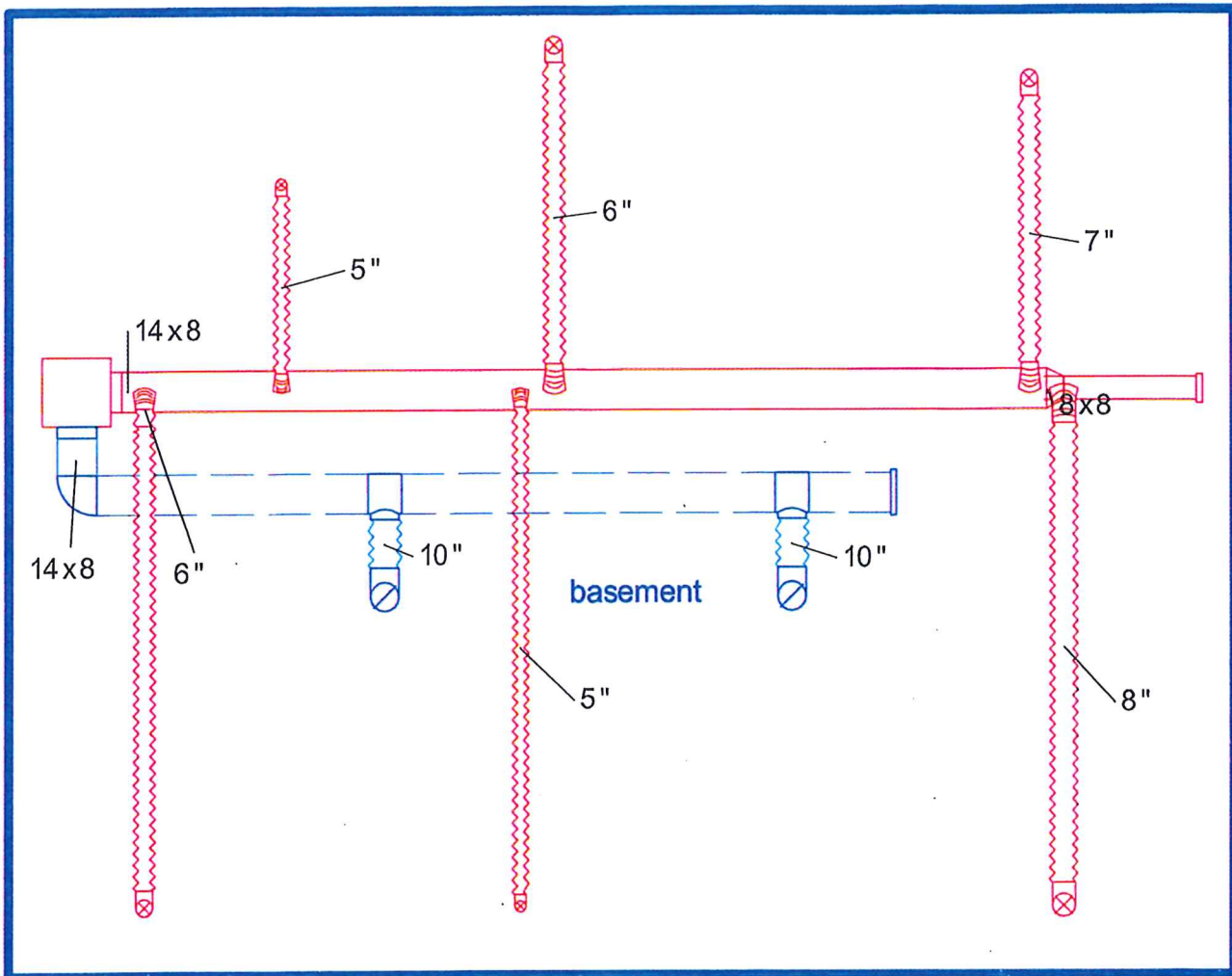




basement



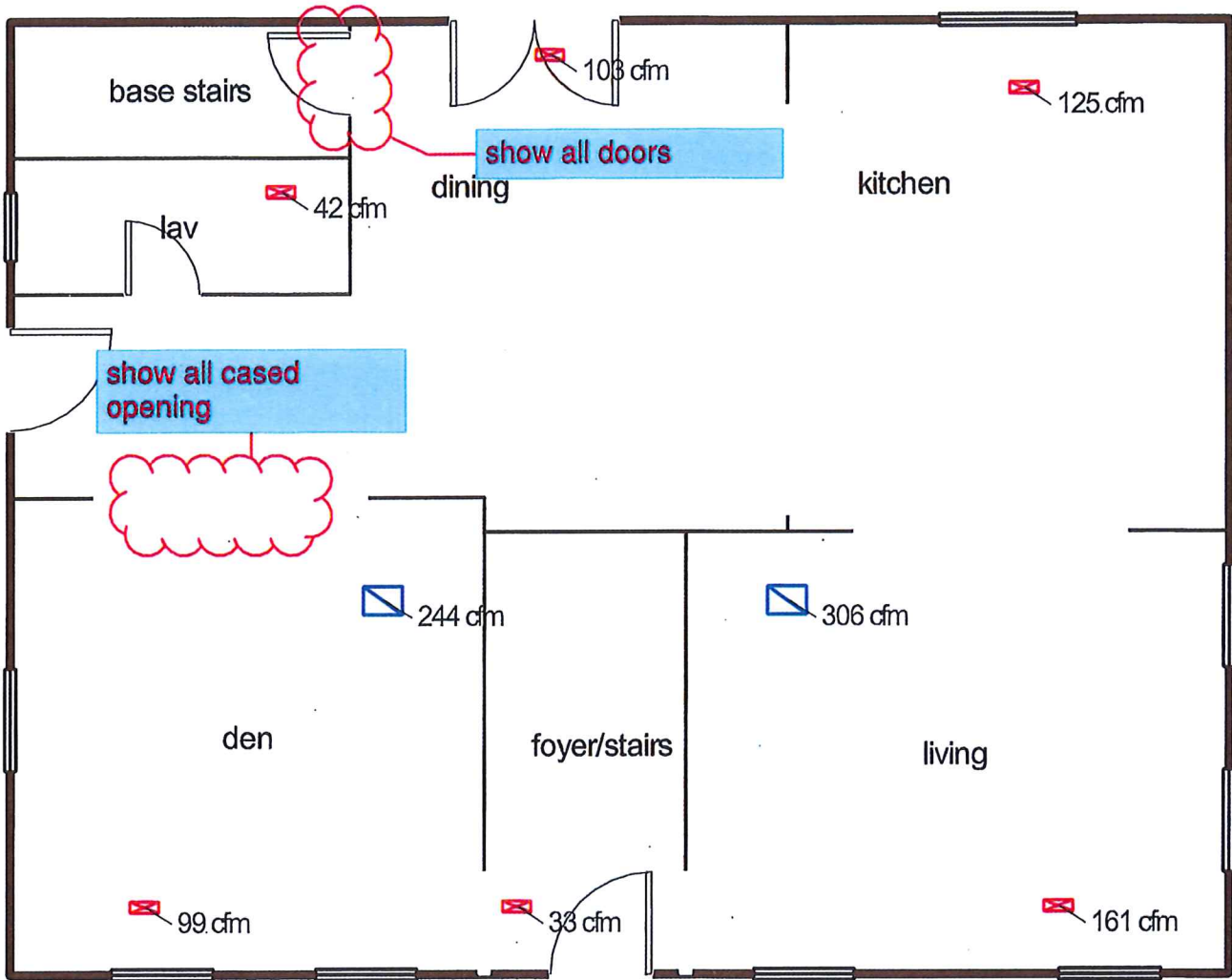
Job #: 1234
Performed by mb for:
contractor name
123 main st
town you are working in, ma 12345
Phone: must have contact#

company name
company address
town your company is in

Scale: 1 : 63
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RightSuite@Universal 2018
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1st floor



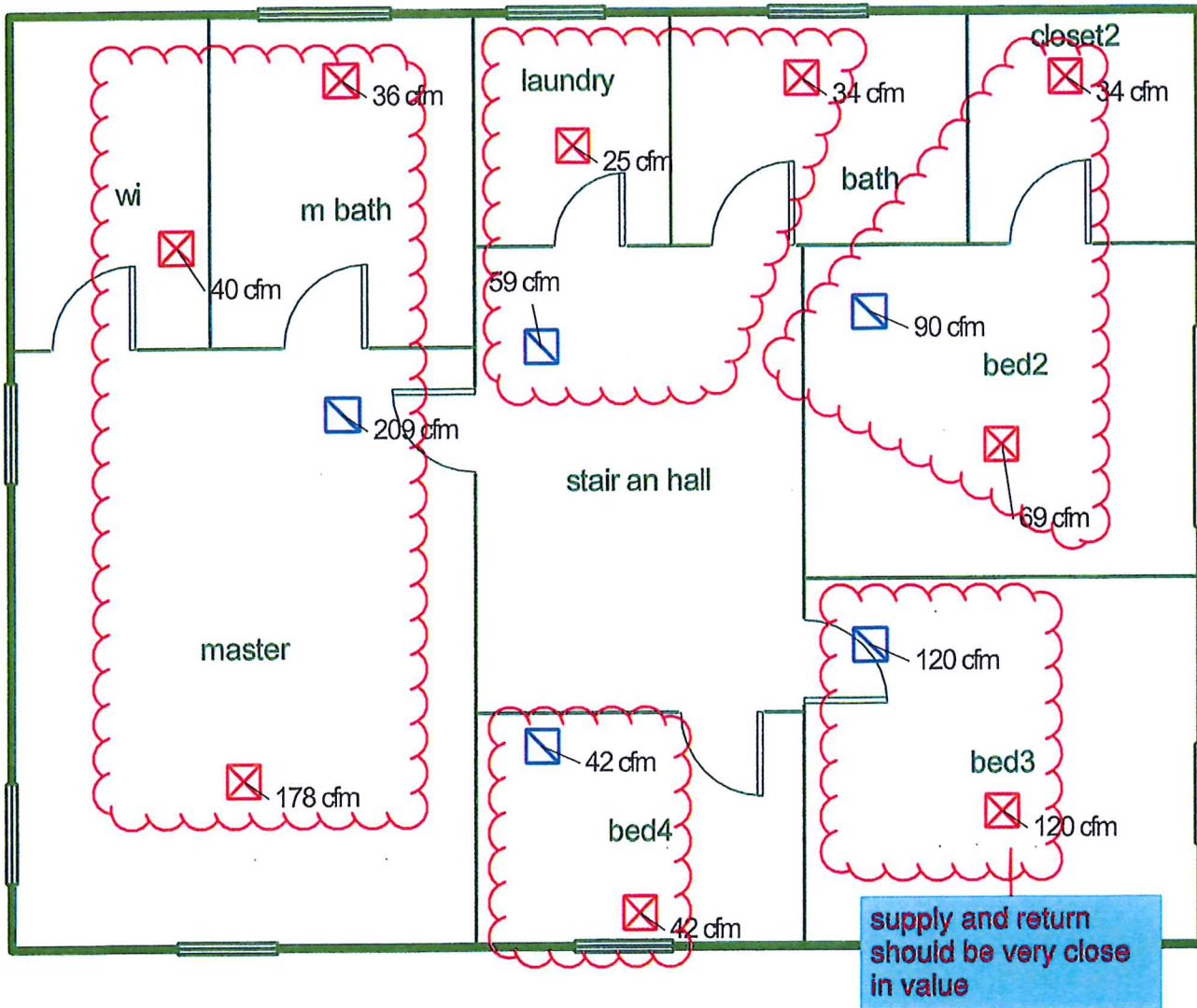
Job #: 1234
Performed by mb for:
contractor name
123 main st
town you are working in, ma 12345
Phone: must have contact#

company name
company address
town your company is in

Scale: 1 : 63
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2nd floor



Job #: 1234
Performed by mb for:
contractor name
123 main st
town you are working in, ma 12345
Phone: must have contact#

company name

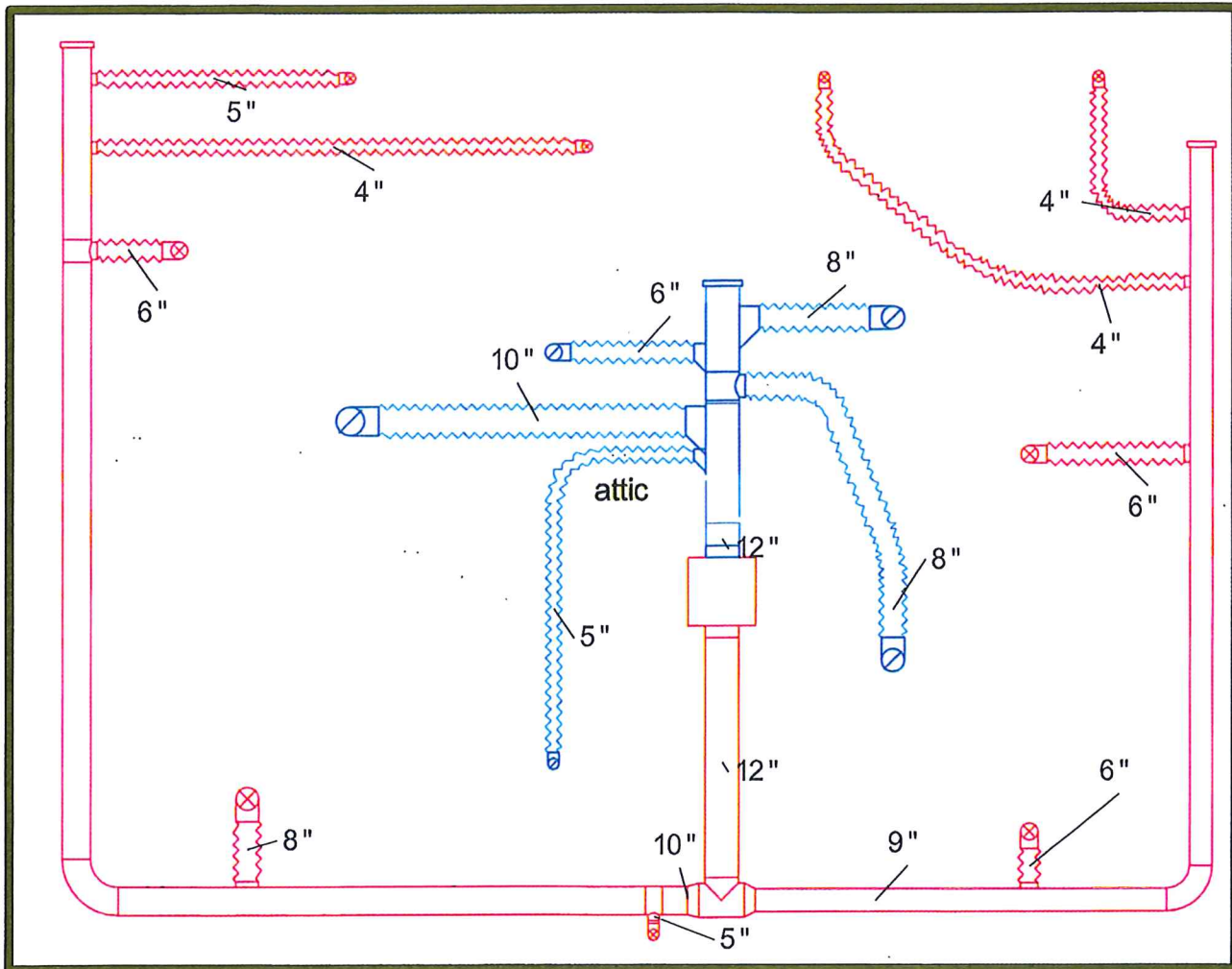
company address
town your company is in

Scale: 1 : 63

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attic



Job #: 1234
Performed by mb for:
contractor name
123 main st
town you are working in, ma 12345
Phone: must have contact#

company name
company address
town your company is in

Scale: 1 : 63
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Duct System Summary

1stfl

company name

Job: 1234
Date: Dec. 30th 2018
By: mb

company address, town your company is in License: **must have lic. type and #**

Project Information

For: contractor name, your co name
123 main st, town you are working in, ma 12345
Phone: must have contact #

	Heating	Cooling
External static pressure	0.70 in H2O	0.70 in H2O
Pressure losses	0.36 in H2O	0.36 in H2O
Available static pressure	0.34 in H2O	0.34 in H2O
Supply / return available pressure	0.148 / 0.192 in H2O	0.148 / 0.192 in H2O
Lowest friction rate	0.065 in/100ft	0.065 in/100ft
Actual air flow	473 cfm	473 cfm
Total effective length (TEL)	524 ft	

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Fig.Eqv Ln (ft)	Trunk
den	h 4211	99	83	0.072	6.0	0x0	VIFx	16.0	190.0	st2
dining	h 4388	103	53	0.075	6.0	0x0	VIFx	23.0	175.0	st2
foyer/stairs	h 1389	33	20	0.071	5.0	0x0	VIFx	27.0	180.0	st2
kitchen	c 2382	89	125	0.074	7.0	0x0	VIFx	36.0	165.0	st2
lav	h 1802	42	32	0.075	5.0	0x0	VIFx	11.0	185.0	st2
living	c 3060	107	161	0.065	8.0	0x0	VIFx	43.0	185.0	st2A

flex

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st2	PeakAVF	473	473	0.065	608	11.4	8 x 14	ShtMetl	st2
st2A	PeakAVF	107	161	0.065	362	7.6	8 x 8	ShtMetl	

try to keep under 700 fpm

metal

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb23	0x0	244	167	179.0	0.107	448	10.0	0x 0		VIFx	rt2
rb24	0x0	229	306	296.0	0.065	561	10.0	0x 0		VIFx	rt2

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rt2	PeakAVF	473	473	0.065	608	11.4	8 x 14	ShtMetl	



Duct System Summary
2nd fl
company name

Job: 1234
Date: Dec. 30th 2018
By: mb

company address, town your company is in License: **must have lic. type and #**

Project Information

For: contractor name, your co name
123 main st, town you are working in, ma 12345
Phone: must have contact #

	Heating	Cooling
External static pressure	0.70 in H2O	0.70 in H2O
Pressure losses	0.34 in H2O	0.34 in H2O
Available static pressure	0.36 in H2O	0.36 in H2O
Supply / return available pressure	0.199 / 0.161 in H2O	0.199 / 0.161 in H2O
Lowest friction rate	0.060 in/100ft	0.060 in/100ft
Actual air flow	470 cfm	470 cfm
Total effective length (TEL)	596 ft	

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
bath	h 1612	34	16	0.066	4.0	0x0	VIFx	54.5	245.0	st3
bed2	c 1413	56	69	0.070	6.0	0x0	VIFx	40.0	245.0	st3
bed3	c 2463	77	120	0.081	6.0	0x0	VIFx	19.0	225.0	st3
bed4	h 2029	42	32	0.072	5.0	0x0	VIFx	11.0	265.0	st4
closet2	h 1638	34	11	0.071	4.0	0x0	VIFx	49.0	230.0	st3
laundry	h 1217	25	13	0.064	4.0	0x0	VIFx	64.0	245.0	st4
m bath	h 1712	36	18	0.068	5.0	0x0	VIFx	59.0	235.0	st4
master	c 3642	125	178	0.078	8.0	0x0	VIFx	25.0	230.0	st4
wi	h 1909	40	14	0.060	6.0	0x0	VIFx	49.0	280.0	st4

overridden values are ok as long as not to many than design is after thought

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st4	Peak AVF	269	254	0.060	493	10.0	0 x 0	ShtMetl	st1
st3	Peak AVF	201	216	0.066	490	9.0	0 x 0	ShtMetl	st1
st1	Peak AVF	470	470	0.060	598	12.0	0 x 0	ShtMetl	

will only display if values have been overridden may be turned off thou

Bold/italic values have been manually overridden

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x0	201	209	135.0	0.119	384	10.0	0x 0		VIFx	rt1
rb25	0x0	59	28	201.0	0.080	302	6.0	0x 0		VIFx	rt1
rb2	0x0	77	120	196.4	0.082	345	8.0	0x 0		VIFx	rt1
rb5	0x0	42	32	102.0	0.158	312	5.0	0x 0		VIFx	rt1
rb3	0x0	90	81	267.0	0.060	257	8.0	0x 0		VIFx	rt1

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rt1	PeakAVF	470	470	0.060	598	12.0	0 x 0	ShtMetl	

Bold/italic values have been manually overridden



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...smike\Dropbox\HVAC\shrewbury town temple.rup Calc = MJ8 Front Door faces: SW

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company address, town your company is in License: **must have lic. type and #**

Project Information

For: contractor name, your co name
123 main st, town you are working in, ma 12345
Phone: must have contact #

Available Static Pressure

	Heating (in H ₂ O)	Cooling (in H ₂ O)	
External static pressure	0.70	0.70	should not be over .80 to start
Pressure losses			
Coil	0.12	0.12	
Heat exchanger	0	0	
Supply diffusers	0.03	0.03	
Return grilles	0.03	0.03	
Filter	0.15	0.15	all filters have diff. values
Humidifier	0	0	
Balancing damper	0.03	0.03	
Other device	0	0	
Available static pressure	0.34	0.34	

Total Effective Length

	Supply (ft)	Return (ft)
Measured length of run-out	15	3
Measured length of trunk	28	23
Equivalent length of fittings	185	270
Total length	228	296
Total effective length		524

Friction Rate

	Heating (in/100ft)	Cooling (in/100ft)
Supply Ducts	0.065	0.065
Return Ducts	0.065	0.065

Fitting Equivalent Length Details

Supply	4G=80, 2K0=50, 12H1=20, 1C=35: TotalEL=185
Return	6M=20, 6C6=115, 8B7=65, 6CB=25, 5H1=45: TotalEL=270

must say ok



Static Pressure and Friction Rate

2nd fl
company name

Job: 1234
Date: Dec. 30th 2018
By: mb

company address, town your company is in License: **must have lic. type and #**

Project Information

For: contractor name, your co name
123 main st, town you are working in, ma 12345
Phone: must have contact #

Available Static Pressure

	Heating (in H2O)	Cooling (in H2O)
External static pressure	0.70	0.70
Pressure losses		
Coil	0.10	0.10
Heat exchanger	0	0
Supply diffusers	0.03	0.03
Return grilles	0.03	0.03
Filter	0.15	0.15
Humidifier	0	0
Balancing damper	0.03	0.03
Other device	0	0
Available static pressure	0.36	0.36

diff coils will have diff values

all highlighted values are constant

Total Effective Length

	Supply (ft)	Return (ft)
Measured length of run-out	3	5
Measured length of trunk	46	7
Equivalent length of fittings	280	255
Total length	329	267
Total effective length		596

Friction Rate

	Heating (in/100ft)	Cooling (in/100ft)
Supply Ducts	0.060	0.060
Return Ducts	0.060	0.060

OK OK

OK OK

Fitting Equivalent Length Details

Supply	4AD=60, 9I1=85, 8AE=10, 9I2=5, 9I1=85, 1A=35: TotalEL=280
Return	6M=20, 6A6=75, 6AA=10, 10G=75, 6AB=25, 6AA=10, 5D=40: TotalEL=255

below
.60
fails