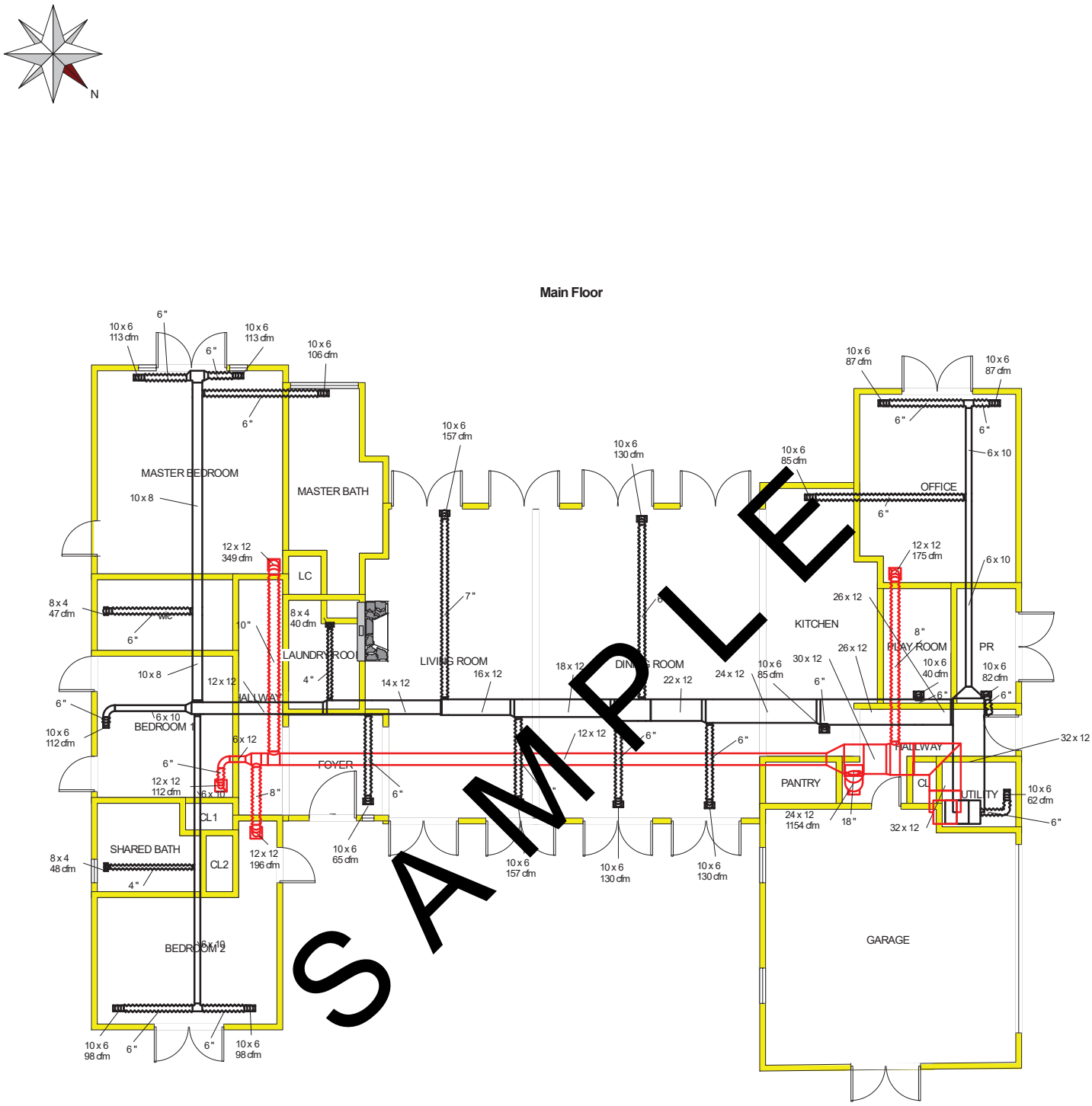

Job #: 33 Zeek
Performed by Craig C Brooks for:
Manny Jr. Lourenco
113 Jefferson Syreet
Newark, NJ 07105
Phone: 973-583-8900 Fax: N/A
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Scale: 1 : 149

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Duct System Summary
Entire House
WebREPS, LLC

Job: 33 Zeek
Date: March 25th, 2024
By: Craig C Brooks
Plan: 33 Zeek

1880 82nd Avenue Suite # 203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com Web: www.acductdesign.com License: CAC054709

Project Information

For: Manny Jr. Lourenco, Lourence Mechanical LLC
113 Jefferson Syreet, Newark, NJ 07105
Phone: 973-583-8900 Fax: N/A
Email: manny.l.jr@gmail.com

	Heating	Cooling
External static pressure	0.60 in H2O	0.60 in H2O
Pressure losses	0.24 in H2O	0.24 in H2O
Available static pressure	0.36 in H2O	0.36 in H2O
Supply / return available pressure	0.193 / 0.167 in H2O	0.193 / 0.167 in H2O
Lowest friction rate	0.043 in/100ft	0.043 in/100ft
Actual air flow	1883 cfm	1883 cfm
Total effective length (TEL)	831 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
BEDROOM 1	h	4105	112	88	0.054	6.0	0x 0	VIFx	83.0	277.0	st6
BEDROOM 2	h	3579	98	75	0.045	6.0	0x 0	VIFx	106.3	325.0	st5A
BEDROOM 2-A	h	3579	98	75	0.045	6.0	0x 0	VIFx	104.0	325.0	st5A
DINING ROOM	c	2530	121	130	0.087	6.0	0x 0	VIFx	46.3	175.0	st3C
DINING ROOM-A	c	2530	121	130	0.100	6.0	0x 0	VIFx	38.5	155.0	st3B
DINING ROOM-B	c	2530	121	130	0.087	6.0	0x 0	VIFx	52.5	185.0	st3C
FOYER	h	2361	65	53	0.062	6.0	0x 0	VIFx	67.5	245.0	st3F
KITCHEN	c	1652	65	85	0.125	6.0	0x 0	VIFx	40.3	115.0	st2
KITCHEN-A	c	1652	65	85	0.123	6.0	0x 0	VIFx	22.3	135.0	st3A
LAUNDRY ROOM	c	772	32	40	0.063	4.0	0x 0	VIFx	69.8	235.0	st3F
LIVING ROOM	c	3067	120	157	0.068	7.0	0x 0	VIFx	69.5	215.0	st3E
LIVING ROOM-A	c	3067	120	157	0.077	7.0	0x 0	VIFx	54.8	195.0	st3D
MASTER BATH	c	207	100	106	0.043	6.0	0x 0	VIFx	111.5	335.0	st4A
MASTER BEDROOM	c	219	10	113	0.045	6.0	0x 0	VIFx	105.8	325.0	st4A
MASTER BEDROOM-A	c	2194	11	113	0.045	6.0	0x 0	VIFx	107.3	325.0	st4A
OFFICE	h	3189	87	72	0.106	6.0	0x 0	VIFx	42.0	140.0	st2A
OFFICE-A	h	3189	87	72	0.109	6.0	0x 0	VIFx	37.0	140.0	st2A
PLAY ROOM	h	1463	40	16	0.150	6.0	0x 0	VIFx	14.3	115.0	st3
PR	c	1599	72	82	0.200	6.0	0x 0	VIFx	11.8	85.0	st1
SHARED BATH	h	1760	48	30	0.048	4.0	0x 0	VIFx	95.3	305.0	st5
UTILITY	h	2251	62	59	0.353	6.0	0x 0	VIFx	4.8	50.0	
wic	h	1704	47	15	0.049	6.0	0x 0	VIFx	90.0	305.0	st4

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	349	347	0.043	629	11.0	8 x 10	ShtMetl	st3G
st4A	Peak AVF	303	332	0.043	597	10.8	8 x 10	ShtMetl	st4
st5	Peak AVF	244	180	0.045	586	9.6	10 x 6	ShtMetl	st3G
st5A	Peak AVF	196	150	0.045	470	8.8	10 x 6	ShtMetl	st5
st6	Peak AVF	112	88	0.054	270	6.9	10 x 6	ShtMetl	st3G
st3G	Peak AVF	706	615	0.043	706	14.3	12 x 12	ShtMetl	st3F
st3F	Peak AVF	803	707	0.043	688	15.0	12 x 14	ShtMetl	st3E
st3E	Peak AVF	923	865	0.043	692	15.8	12 x 16	ShtMetl	st3D
st3D	Peak AVF	1042	1022	0.043	695	16.5	12 x 18	ShtMetl	st3C
st3C	Peak AVF	1284	1282	0.043	700	17.9	12 x 22	ShtMetl	st3B
st3B	Peak AVF	1405	1412	0.043	706	18.5	12 x 24	ShtMetl	st3A
st3A	Peak AVF	1470	1497	0.043	691	18.9	12 x 26	ShtMetl	st3
st2	Peak AVF	239	229	0.106	575	8.0	10 x 6	ShtMetl	st1
st2A	Peak AVF	175	144	0.106	419	7.1	10 x 6	ShtMetl	st2
st3	Peak AVF	1510	1513	0.043	698	19.0	12 x 26	ShtMetl	st1
st1	Peak AVF	1821	1824	0.043	684	20.4	12 x 32	ShtMetl	

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
rb4	0x 0	112	88	360.3	0.046	572	6.0	0x 0		VlFx	rt1C
rb5	0x 0	196	150	384.3	0.043	561	8.0	0x 0		VlFx	rt1B
rb3	0x 0	349	347	368.0	0.045	64	10.0	0x 0		VlFx	rt1B
rb2	0x 0	175	144	184.5	0.0	500	8.0	0x 0		VlFx	rt1
rb1	0x 0	1051	1154	284.3	0.05	653	18.0	0x 0		VlFx	rt1A

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rt1C	Peak AVF	112	88	0.046	225	7.1	12 x 6	ShtMetl	rt1B
rt1B	Peak AVF	[illegible]	585	0.043	658	13.9	12 x 12	ShtMetl	rt1A
rt1	Peak AVF	1883	1883	0.043	706	20.6	12 x 32	ShtMetl	
rt1A	Peak AVF	1708	1739	0.043	695	20.0	12 x 30	ShtMetl	rt1