

TOTAL HEAT GAIN BTU/H:

41540

SITE NAME:	ROUNDE	L HO	MES IN	IC.													P.4	ATE: May	-24			14011-	- D 114 -														
BUILDER:								TYPE:	TERR/	ACOTA 3			G	FA: 3	1496			O# 9074						URAL AIR URAL AIR					HEAT				_		A-F280		
ROOM USE	T	T		MBR			ENS			WIC		В	ED-2	77.		ED-3		BEI		T	ENS-2/		KINAI	FLEX	CHANG	WIC			HEAT ENS-4	GAIN	۱۳.	13	5	B-12 PA	CKAGE	A1	
EXP. WALL				35			29	- 1	ĺ	7			31	- 1		34		1:			0		1	11		10			=143-4	Rick	mono	Hill		ity of	Rick	hmo	nd Hill
CLG. HT.				9			9	ļ	ĺ	9			9			9		9			9			9		9			,	un	monu		_ `	_			
	FACTOR	_				1		- 1	l					- 1											-	•								В	uildir	ng Di	ivision
GRS.WALL AREA	LOSS C	AIN		315	1		261	- 1	l	63	- 1	:	279		;	306		11	7		0			99	ı	90)		5 📗				- ⊥			-1	
GLAZING				LOSS				GAIN	1 '	LOSS G	AIN	LC	OSS G	AIN	LC	OSS G	AIN	LOS	S GAIN		LOSS	GAIN		LOSS GA	IN	LO	S GAIN		LOSS	g Ail	Α		₹₩	VIE	-W	/⊞I	
NORTH		16.0	0	0	0	14	305	224	0	0	0			0				0 0		0	0	0	0	0 () 0	0	0	0	q -	0			ìТ				
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WEST		24.9 41.6	32	0 697	0 1330	0 14	0 305	582	0	0	١	-	0	0	0	-		11 24		0	0	0	11	240 27		0		7	152	174				P)	(V		
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NET EXPOSED WALL		0.8	283	1293	213	233	1064	175	63	288	47	-	-	174	-	-	- 1	06 48	_	١٥	0	0	88	402 6		26	-	47	215	0 35						-	
NET EXPOSED BSMT WALL ABOVE GR	3.7	0.6	0	0	0	0	0	0	0	0	0			0				0 0		0	0	0	0	0 (0	0 43	0	0	0							
EXPOSED CLG	1.3	0.6	305	401	179	188	247	110	140	184	82	284 3	373 1	167	222	292 1	30 2	78 36	5 163	66	87	39	210	276 12		-	-	50	66	29							
NO ATTIC EXPOSED CLG	1	1.3	0	0	0	0	0	0	0	0	0	0	0	0	30	84	38	0 0	0	0	0	0	0	0 (0	0	0						İ	
EXPOSED FLOOR	2.6	0.4	0	0	0	0	0	0	0	0	0	284	741 1	122	35	91	15	0 0	0	66	172	28	0	0 (52	13	6 22	0	0	0							
BASEMENT/CRAWL HEAT LOSS	1			0	1		0	- 1	1	0			0	- 1		0		0			0			0		0			0								
SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS				0	1	1	0	1	ĺ	0	l		0	- 1		0		0			0			0		0			0								
SUB TOTAL HT LOSS	1	ŀ		2391	1722	1	1921	1091	İ	472	130	3	198	446	3	3208	,,,	108			259			918		119			433								
LEVEL FACTOR / MULTIPLIER			0.20	0.28	1722	0.20		1091	0.20			0.20 0).28	416	0.20 0		238	.20 0.2	517	0.20	0.00	67		46			1474	1		239							
AIR CHANGE HEAT LOSS			0.20	667		"	536	1	0.20	132	- 1		392	- 1		895	"	.20 0.2		0.20	0.28 72		0.20	0.28 256	0.20	0.2 33		0.20	0.28 121								
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HEAT GAIN PEOPLE	240		2		480	0		0	0		0	1	2	240	1	2	40	1	240	0		0	0	(- 1		0	0		0							
HEAT GAIN APPLIANCES/LIGHTS					375	1		375	l		375		3	375		3	75		375			375		37	75		375	l		375							
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TOTAL HT LOSS BTU/H				3058	3494			1997			666			558			809	135	1515	ļ	364	638		11/4	29	100	2780		554	818							
1				3058 LV/DN				1997			666			558			809	WIC	1515	<u></u>		638		11	29	100	-	<u> </u>	554	818		WOD		R/	ıs		
TOTAL HT GAIN x 1.3 BTU/H								1997			666	ı	4:	558	L	5	809		1515 -G		764 FOY	638			29		-	<u> </u>	554	818		WOD 47		B/			
TOTAL HT GAIN x 1.3 BTU/H				LV/DN			FAM	1997		KIT	666	I	4! LIB	558	L	5 AUN	809	Wic	1515 :-G		FOY	638		MUD 11	29		-		554	818			<u> </u>	B/ 18	8		
TOTAL HT GAIN x 1.3 BTU/H ROOM USE EXP. WALL CLG. HT.	FACTORS			LV/DN 50 10			FAM 35 10	1997		KIT 39 10	666	I	4! LIB 11	558	L	AUN 9 9	809	WIC 13	1515 :-G 3		FOY 17 10	638		MUD 23	29		-		554	818		47		18	8		
TOTAL HT GAIN x 1.3 BTU/H ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA				LV/DN 50 10 500			FAM 35 10			KIT 39 10		I	4! LIB 11 10		L	AUN 9 9		WIC 1: 10	1515 :-G 3		FOY 17 10			MUD 23 11 253		100	-		554	818		47		18	8		
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TOTAL HT GAIN x 1.3 BTU/H ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED CLG BASEMENT/CRAWL HEAT LOSS	21.8 21.8 21.8 21.8 21.8 21.8 21.8 21.8	AIN 16.0 11.6 24.9 11.6 01.5 4.3 0.8 0.6 0.6	0 0 36 0 0 464 0	LV/DN 50 10 500 LOSS 0 0 784 0 0 0 2120 0 0 0 0 0 0	GAIN 0 0 896 0 0 349 0	0 0 0 48 0 0 302 0	FAM 35 10 350 LOSS 0 0 1046 0 0 1380 0 0 0 0 0 0 0	GAIN 0 0 0 1994 0 0 227 0	0 0 9 74 0 0 307 0	KIT 39 10 390 LOSS G 0 0 196 2 1612 3 0 0 1403 2 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 2224 3075 0 0 231	18 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	44- LIB 11 10 COSS G, 00 0 0 0 0 120 0 0 0 0 0 0 0 0 0 0 0 0	AIN 288 0 0 0 0 0 0 0 0 0	Ld 7 1 0 0 0 0 0 0 74 3 0 150 1	55 AUN 9 9 81 OSS G 152 0 0 0 0 3338 0 1197 0 73 0	AIN 12 0 0 0 0 0 0 0 0 0 88 0	Wice 13 10 11 11 11 11 11 11 11 11 11 11 11 11	1515 3 0 0 SS GAIN 0 7 623 0 0 0 0 5 86 0 0 0	14 6 0 0 40 110 0	FOY 17 10 170 LOSS 305 131 0 0 0 1034 503 0 0 0	GAIN 224 249 0 0 170 83 0	0 0 0 0 0 20 233 0 0	111 MUD 23 11 253 LOSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SIN () () () () () () () () () () () () ()	100	-			818	0 0 7 0 0 0 275	47 8 376 OSS G 0 0 152 2 0 0 0 1013 1	0 0 291 0 0 0 167	10 LO 4 8 0 (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	88 88 88 88 88 88 88 88 88 88 88 88 88	4))))) 5 5))	
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ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE	21.8 4 21.8 2 21.8 2 21.8 3 38.1 1 25.8 4.6 3.7 1.3 2.8 2.6	AIN 16.0 11.6 24.9 11.6 01.5 4.3 0.8 0.6 0.6 1.3 0.4	0 0 36 0 0 0 464 0 0	LLV/IDN 50 10 500 LOSS 0 0 784 0 0 2120 0 0 0 2904 0.48 1400	GAIN 0 0 0 896 0 0 0 349 0 0 0 1245 81 0 0 0	0 0 0 0 48 0 0 302 0 0 0	FAM 350 10 350 10 00 0 0 1380 0 0 0 0 2425 0.48 1169	GAIN 0 0 1994 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 9 74 0 0 307 0 0 0	KIT 39 10 390 LOSS G 0 0 196 : 1612 3 0 0 1403 : 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1548 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 2224 3075 0 0 0 2331 0 0 0 0 2229 0 0 0	11 LA 11 LA 12 LA	41	AIN 288 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Li Li C 7 1 1 0 0 0 0 0 0 0 1 50 1 1 50 1 1 50 2 8 7 7 7 2 8 8 7 7 7 8 7 8 7 8 7 8 7 8	5 5 AUN 9 9 9 8 8 1 OSS G 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AIN 12 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Wicz 11: 11: 11: 11: 11: 11: 11: 11: 11: 11	1515 G-G G-G G-G G-G G-G G-G G-G G-G G-G G-	14 6 0 0 40 110 0 0	FOY 17 10 170 LOSS 305 131 0 0 0 1034 503 0 0 0 1972 0.48 951	GAIN 224 249 0 0 0 170 83 0 0 0 0 726 47 0 0 0	0 0 0 0 20 233 0 0	MUD 23 11 253 LOSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	100	-		Per:maddy.toalaalejandro	818	0 0 7 0 0 0 275	47 8 376 COSS G 0 0 0 0 152 2 2 2 0 0 0 1616 6 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 291 0 0 0 0 167 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 LO LO CO	881 SSS GAA 199 O	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS	21.8 4 21.8 2 21.8 2 21.8 3 38.1 1 25.8 4.6 3.7 1.3 2.8 2.6	AIN 16.0 11.6 24.9 11.6 01.5 4.3 0.8 0.6 0.6 1.3 0.4	0 0 36 0 0 0 464 0 0	LLV/IDN 50 10 500 LOSS 0 0 784 0 0 2120 0 0 0 2904 0.48 1400	GAIN 0 0 0 896 0 0 0 349 0 0 0 1245 81 0 0 0	0 0 0 48 0 0 302 0 0 0	FAM 35 10 350 LOSS 0 0 1046 0 0 0 1380 0 0 0 0 2425 0 48 1169 0 0	GAIN 0 0 1994 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 9 74 0 0 307 0 0 0 0	KIT 39 10 390 LOSS G 0 0 196 2 1612 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 2224 3075 0 0 0 2331 0 0 0 0 2229 0 0 0	1 LC 1 1 LC 1 1 LC 1 1 LC 1 LC 1 LC 1 L	41	AIN 288 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Li Li C 7 1 1 0 0 0 0 0 0 0 1 1 5 0 1 1 5 0 0	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	AIN 12 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Wicz 1: 11	1515 G-G 3 3 0 0 SSS GAIN 0 7 623 0 0 0 0 5 86 0 0 0 0 7 11 46 46 0 0 0 0	14 6 0 0 40 110 0 0	FOY 17 10 170 LOSS 305 131 0 0 0 1034 503 0 0 0 1972 0.48 951	GAIN 224 249 0 0 0 170 83 0 0 0 0 726 47 0 0 0	0 0 0 0 0 20 233 0 0 0	MUD 23 11 253 LOSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	100	-			818	0 0 7 0 0 0 275 0 1 0	47 8 376 COSS G 0 0 0 152 2 1 1666 4	0 0 0 291 0 0 0 0 167 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 LO LO LO LO LO LO LO LO LO LO LO LO LO	88 88 88 88 88 88 88 88 88 88 88 88 88	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

STRUCTURAL HEAT LOSS: 62829

TOTAL COMBINED HEAT LOSS BTU/H: 64499

Michael Offante.

LOSS DUE TO VENTILATION LOAD BTU/H: 1670

TONS: 3.46



		: ROUNDE						TYPE:	TERRAC	OTA 3			DATE:	May-21			GFA:	3496	LO#	90749				
HEATING CFM TOTAL HEAT LOS <mark>S</mark> AIR FLOW RATE CFM	1504 62,829 23.94		TOTAL F	DLING CFM HEAT GAIN RATE CFM	41,266 36.45		а	furn a/c coil vailable p	pressure ace filter pressure pressure s/a & r/a	0.6 0.05 0.2 0.35						Ó		804CNA SPEED LOW	GOODM. 80 868	AN	INPU' OUTPU'	AFUE : T (BTU/H) : T (BTU/H) <mark>:</mark>	= 96 % = 80,000 = 76,800	
RUN COUNT S/A R/A	4th 0 0	3rd 0 0	2nd 17 6	1st 10 3	Bas 5 1				ssure s/a ess. loss	0.18 0.02	r/s	r/a grille pre	pressure	0.17 0.02			٨	DLOW MEDIUM M HIGH	978 1112 1504		DES	GIGN CFM : CFM @	= 1504 2.6 " E.S.P.	-
All S/A diffusers 4"x10" unle						1		usted pre		0.16		usted pre		0.15			WILDIO	HIGH	1615	7	EMPERA	TURE RISE	≣ 47	°F
All S/A runs 5"Ø unless not																								_
RUN#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
ROOM NAME RM LOSS MBH.	MBR 1.53	ENS 1.23	WIC 0.60	BED-2 2.25	BED-3 1.50	BED-4 1.39	ENS-2/3 0.18	FLEX 1.17	WIC-3 1.69	MBR 1.53	ENS-4 0.55	LV/DN 2.15	FAM	KIT	KIT	LIB	LAUN	WIC-G	FOY	MUD	BAS	BAS	BAS	BAS
CFM PER RUN HEAT	37	29	14	54	36	33	4	28	40	37	13	52	1.80 43	2.38 57	2.38 57	1.20 29	1.07 26	1.26 30	2.92 70	2.34 56	4.21 101	4.21 101	4.21 101	4.21 101
RM GAIN MBH.	1.75	1.00	0.67	2.28	1.94	1.51	0.32	1.13	2.78	1.75	0.82	1,11	1.78	2.69	2.69	0.98	0.94	0.98	1.00	0.85	0.39	0.39	0.39	0.39
CFM PER RUN COOLING	64	36	24	83	71	55	12	41	101	64	30	40	65	98	98	36	34	36	37	31	14	14	14	14
ADJUSTED PRESSURE	0.17	0.17	0.17	0.16	0.17	0.17	0.17	0.17	0.16	0.17	0.17	0.17	0.17	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16
ACTUAL DUCT LGH.	37	35	22	65	67	49	44	34	56	26	45	35	26	31	24	19	49	53	46	23	15	22	33	33
EQUIVALENT LENGTH	120	150	160	150	200	190	170	150	160	140	180	120	110	140	130	100	180	140	130	120	140	120	120	180
TOTAL EFFECTIVE LENGTH	157	185	182	215	267	239	214	184	216	166	225	155	136	171	154	119	229	193	176	143	155	142	153	213
ADJUSTED PRESSURE	0.11	0.09	0.09	0.08	0.06	0.07	0.08	0.09	0.08	0.1	0.08	0.11	0.13	0.09	0.11	0.14	0.08	0.09	0.1	0.12	0.1	0.11	0.11	0.08
ROUND DUCT SIZE HEATING VELOCITY (ft/min)	5 272	4 333	4 161	6 275	6 184	6 168	4 46	6 143	6 204	5 272	4 149	4 597	5	6 291	6	4	4	4	5	5	6	6	6	6
COOLING VELOCITY (ft/min)	470	413	275	423	362	280	138	209	515	470	344	459	316 477	500	291 500	333 413	298 390	344 413	514 272	411 228	515 71	515 71	515 71	515 71
OUTLET GRILL SIZE	3X10	3X10	3X10	4X10	4X10	4X10	3X10	4X10	4X10	3X10	3X10	3X10	3X10	4X10	4X10	3X10	3X10	3X10	3X10	3X10	4X10	4X10	4X10	4X10
TRUNK	D	F	F	C	Α	C	В	C	В	D	C	В	F	D	D	F	C	A	A	F	F	D	C	A
RUN#	25	26	27	28	29	30	31	32																
ROOM NAME RM LOSS MBH.	BED-2 2.25	BED-3 1.50	ENS 1.23	ENS-2/3 0.18	FAM 1.80	LV/DN	BAS	BED-3			-	D. 1	6	0.4	(D: 1									İ
					1.80	2.15	4.21	1.50				Kichmon	d Hill	City	of Rich	mond	Hill							ŀ
CEM DED DIN HEAT							101	36				Cocinion		'										
CFM PER RUN HEAT	54	36	29	4	43	52	101 0.39	36 1 94				/		-										
CFM PER RUN HEAT RM GAIN MBH. CFM PER RUN COOLING				4 0.32			101 0.39 14	36 1.94 71				/			Buildin	g Divis								
RM GAIN MBH.	54 2.28	36 1.94	29 1.00	4	43 1.78	52 1.11	0.39	1.94				/			Buildin	g Divis								
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH.	54 2.28 83 0.16 60	36 1.94 71 0.17 74	29 1.00 36 0.17 30	4 0.32 12 0.17 40	43 1.78 65 0.17 14	52 1.11 40 0.17 49	0.39 14 0.16 46	1.94 71 0.17 70				/	C R		Buildin	g Divis								
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH	54 2.28 83 0.16 60 180	36 1.94 71 0.17 74 200	29 1.00 36 0.17 30 120	4 0.32 12 0.17 40 180	43 1.78 65 0.17 14 150	52 1.11 40 0.17 49 170	0.39 14 0.16 46 160	1.94 71 0.17 70 200				/			Buildin	g Divis								
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH	54 2.28 83 0.16 60 180 240	36 1.94 71 0.17 74 200 274	29 1.00 36 0.17 30 120 150	4 0.32 12 0.17 40 180 220	43 1.78 65 0.17 14 150 164	52 1.11 40 0.17 49 170 219	0.39 14 0.16 46 160 206	1.94 71 0.17 70 200 270				/		EVI	Buildin EW	g Divis								
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE	54 2.28 83 0.16 60 180 240 0.07	36 1.94 71 0.17 74 200 274 0.06	29 1.00 36 0.17 30 120 150 0.11	4 0.32 12 0.17 40 180 220 0.08	43 1.78 65 0.17 14 150 164 0.1	52 1.11 40 0.17 49 170 219 0.08	0.39 14 0.16 46 160 206 0.08	1.94 71 0.17 70 200 270 0.06			ŀ	HVA	C R	EVI	Buildin	g Divis								
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE	54 2.28 83 0.16 60 180 240 0.07 6	36 1.94 71 0.17 74 200 274 0.06 6	29 1.00 36 0.17 30 120 150 0.11 4	4 0.32 12 0.17 40 180 220 0.08 4	43 1.78 65 0.17 14 150 164 0.1 5	52 1.11 40 0.17 49 170 219 0.08 5	0.39 14 0.16 46 160 206 0.08 6	1.94 71 0.17 70 200 270 0.06 6			ŀ	/	C R	EVI	Buildin EW	g Divis								
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min)	54 2.28 83 0.16 60 180 240 0.07 6 275	36 1.94 71 0.17 74 200 274 0.06 6 184	29 1.00 36 0.17 30 120 150 0.11 4 333	4 0.32 12 0.17 40 180 220 0.08 4 46	43 1.78 65 0.17 14 150 164 0.1 5 316	52 1.11 40 0.17 49 170 219 0.08 5 382	0.39 14 0.16 46 160 206 0.08 6 515	1.94 71 0.17 70 200 270 0.06 6 184			ŀ	HVA	C R	EVI	Buildin EW	g Divis								
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min)	54 2.28 83 0.16 60 180 240 0.07 6 275 423	36 1.94 71 0.17 74 200 274 0.06 6 184 362	29 1.00 36 0.17 30 120 150 0.11 4 333 413	4 0.32 12 0.17 40 180 220 0.08 4 46 138	43 1.78 65 0.17 14 150 164 0.1 5 316 477	52 1.11 40 0.17 49 170 219 0.08 5 382 294	0.39 14 0.16 46 160 206 0.08 6 515 71	1.94 71 0.17 70 200 270 0.06 6 184 362			ŀ	HVA	C R	EVI	Buildin EW	g Divis								
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min)	54 2.28 83 0.16 60 180 240 0.07 6 275	36 1.94 71 0.17 74 200 274 0.06 6 184	29 1.00 36 0.17 30 120 150 0.11 4 333	4 0.32 12 0.17 40 180 220 0.08 4 46	43 1.78 65 0.17 14 150 164 0.1 5 316	52 1.11 40 0.17 49 170 219 0.08 5 382	0.39 14 0.16 46 160 206 0.08 6 515	1.94 71 0.17 70 200 270 0.06 6 184			ŀ	HVA	C R	EVI	Buildin EW	g Divis								
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK	54 2.28 83 0.16 60 180 240 0.07 6 275 423 4X10	36 1.94 71 0.17 74 200 274 0.06 6 184 362 4X10	29 1.00 36 0.17 30 120 150 0.11 4 333 413 3X10	4 0.32 12 0.17 40 180 220 0.08 4 46 138 3X10	43 1.78 65 0.17 14 150 164 0.1 5 316 477 3X10	52 1.11 40 0.17 49 170 219 0.08 5 382 294 3X10	0.39 14 0.16 46 160 206 0.08 6 515 71 4X10	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10			ŀ	HVA	C R	EVI	Buildin EW	g Divis	ion						0	
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ffmin) COOLING VELOCITY (ffmin) OUTLET GRILL SIZE	54 2.28 83 0.16 60 180 240 0.07 6 275 423 4X10 B	36 1.94 71 0.17 74 200 274 0.06 6 184 362 4X10 A	29 1.00 36 0.17 30 120 150 0.11 4 333 413 3X10 F	4 0.32 12 0.17 40 180 220 0.08 4 46 138 3X10 B	43 1.78 65 0.17 14 150 164 0.1 5 316 477 3X10	52 1.11 40 0.17 49 170 219 0.08 5 382 294 3X10	0.39 14 0.16 46 160 206 0.08 6 515 71 4X10 A	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10			ŀ	HVA Initia	C R	EVI	Buildin EW	g Divis				Pe			Ħ	
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK	54 2.28 83 0.16 60 180 240 0.07 6 275 423 4X10 B	36 1.94 71 0.17 74 200 274 0.06 6 184 362 4X10 A	29 1.00 36 0.17 30 120 150 0.11 4 333 413 3X10 F	4 0.32 12 0.17 40 180 220 0.08 4 46 138 3X10 B	43 1.78 65 0.17 14 150 164 0.1 5 316 477 3X10	52 1.11 40 0.17 49 170 219 0.08 5 382 294 3X10	0.39 14 0.16 46 160 206 0.08 6 515 71 4X10 A	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10		TRUNK	STATIC	HVA Initia	C R	EVI	Buildin EW	ED VELOCITY	ion	TRUNK	STATIC	ROUND	RECT	0	dITY BI	VELOCITY
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK SUPPLY AIR TRUNK SIZE	54 2.28 83 0.16 60 180 240 0.07 6 275 423 4X10 B	36 1.94 71 0.17 74 200 274 0.06 6 184 362 4X10 A	29 1.00 36 0.17 30 120 150 0.11 4 333 413 3X10 F	4 0.32 12 0.17 40 180 220 0.08 4 46 138 3X10 B	43 1.78 65 0.17 14 150 164 0.1 5 316 477 3X10 F	52 1.11 40 0.17 49 170 219 0.08 5 382 294 3X10 A	0.39 14 0.16 46 160 206 0.08 6 515 71 4X10 A	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10	TRUNK G	CFM	STATIC PRESS.	HVA Initia	C R	EVI	Buildin PXV	g Divis	RETURN A	TRUNK CFM	STATIC PRESS.	DUCT	DUCT	90	ВП	(ft/min)
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK SUPPLY AIR TRUNK SIZE	54 2.28 83 0.16 60 180 240 0.07 6 275 423 4X10 B	36 1.94 71 0.17 74 200 274 0.06 6 184 362 4X10 A	29 1.00 36 0.17 30 120 150 0.11 4 333 413 3X10 F	4 0.32 12 0.17 40 180 220 0.08 4 6 138 3X10 B	43 1.78 65 0.17 14 150 164 0.1 5 316 477 3X10 F	52 1.11 40 0.17 49 170 219 0.08 5 382 294 3X10 A	0.39 14 0.16 46 160 206 0.08 6 515 71 4X10 A	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10	TRUNK G	CFM O	STATIC PRESS. 0.00	HVA Initia	C R	EVI	Buildin EW PXV	ED VELOCITY (ft/min) 0	RETURN A	TRUNK CFM 0	STATIC PRESS. 0.05	DUCT 0	DUCT	097	BUIL BY OF	(ft/min) O
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK SUPPLY AIR TRUNK SIZE	54 2.28 83 0.16 60 180 240 0.07 6 275 423 4X10 B	36 1.94 71 0.17 74 200 274 0.06 6 184 362 4X10 A	29 1.00 36 0.17 30 120 150 0.11 4 333 413 3X10 F	4 0.32 12 0.17 40 180 220 0.08 4 46 138 3X10 B	43 1.78 65 0.17 14 150 164 0.1 5 316 477 3X10 F	52 1.11 40 0.17 49 170 219 0.08 5 382 294 3X10 A	0.39 14 0.16 46 160 206 0.08 6 515 71 4X10 A	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10	TRUNK G TRUNK H TRUNK I	CFM	STATIC PRESS.	HVA Initia	RECT DUCT 0	EVI	Buildin PXV	g Divis	RETURN A	TRUNK CFM	STATIC PRESS.	DUCT	DUCT	×	BUILDII	(ft/min) 0 0
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (Mmin) COOLING VELOCITY (Mmin) OUTLET GRILL SIZE TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B	54 2.28 83 0.16 60 180 240 0.07 6 275 423 4X10 B	36 1.94 71 0.17 74 200 6 6 184 362 4X10 A static PRESS. 0.06 0.06	29 1.00 36 0.17 30 120 150 0.11 4 333 413 3X10 F	4 0.32 12 0.17 40 180 220 0.08 4 46 138 3X10 B	43 1.78 65 0.17 14 150 164 0.1 5 316 477 3X10 F	52 1.11 40 0.17 49 170 0.08 5 382 294 3X10 A	0.39 14 0.16 46 160 206 0.08 6 515 71 4X10 A	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10	TRUNK H	0 0	STATIC PRESS. 0.00 0.00	HVA Initia	RECT DUCT 0	EVI	Buildin PXV	ED VELOCITY (ft/min) 0	RETURN A TRUNK O TRUNK P	TRUNK CFM 0 0	STATIC PRESS. 0.05 0.05	and do	DUCT P	_	BUILDII	(ft/min) O
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ff/min) COOLING VELOCITY (ff/min) OUTLET GRILL SIZE TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK D TRUNK C	54 2.28 83 0.16 60 180 0.07 6 275 423 4X10 B TRUNK cFM 462 616 871 289 1160	36 1.94 71 0.17 74 200 6 6 184 362 4X10 A STATIC PRESS. 0.06 0.06 0.06 0.09 0.06	29 1.00 36 0.17 30 120 0.11 4 333 413 3X10 F ROUND DUCT 11.3 12.6 14.3 8.6 15.9	4 0.32 12 0.17 40 180 0.08 4 46 138 3X10 B	43 1.78 65 0.17 14 150 0.1 5 316 477 3X10 F	52 1.11 40 0.17 49 170 0.08 5 382 294 3X10 A	0.39 14 0.16 46 160 206 0.08 6 515 71 4X10 A VELOCITY (tt/min) 594 616 653 650 696	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10	TRUNK H TRUNK I TRUNK J TRUNK K	0 0 0 0 0	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 0 0 0 0 0 0 0	RECT DUCT 0 0 0 0 0 0	EVI	Buildin PXV	VELOCITY (ft/min) 0 0 0 0 0	RETURN A TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S	TRUNK CFM 0 0 0 0	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05	and do	DUCT P	×	HTY GE EE&	(ft/min) 0 0 0 0 0
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK SUPPLY AIR TRUNK SIZE TRUNK B TRUNK C TRUNK D	54 2.28 83 0.16 60 180 240 0.07 6 275 423 4X10 B TRUNK CFM 462 616 871 289	36 1.94 71 0.17 74 200 274 0.06 6 184 362 4X10 A STATIC PRESS. 0.06 0.06 0.06 0.06 0.09	29 1.00 36 0.17 30 120 150 0.11 4 333 413 3X10 F	4 0.32 12 0.17 40 180 220 0.08 4 66 138 3X10 B	43 1.78 65 0.17 14 150 164 0.1 5 316 477 3X10 F	52 1.11 40 0.17 49 170 219 0.08 5 382 294 3X10 A	0.39 14 0.16 46 160 206 0.08 6 515 71 4X10 VELOCITY (ftrnin) 594 616 653 650	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10	TRUNK H TRUNK I TRUNK J	0 0 0 0	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 0 0 0 0 0	RECT DUCT 0 0 0 0	EVI F	Buildin PXV	VELOCITY ((ff/min) 0 0 0 0	RETURN A TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK S	TRUNK CFM 0 0 0 0 0 0	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05	anaddy.foa	DUCT CO	×	BUILDING D	(ft/min) 0 0 0 0 0 0
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ff/min) COOLING VELOCITY (ff/min) OUTLET GRILL SIZE TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK D TRUNK C	54 2.28 83 0.16 60 180 0.07 6 275 423 4X10 B TRUNK cFM 462 616 871 289 1160	36 1.94 71 0.17 74 200 6 6 184 362 4X10 A STATIC PRESS. 0.06 0.06 0.06 0.09 0.06	29 1.00 36 0.17 30 120 0.11 4 333 413 3X10 F ROUND DUCT 11.3 12.6 14.3 8.6 15.9	4 0.32 12 0.17 40 180 0.08 4 46 138 3X10 B	43 1.78 65 0.17 14 150 0.1 5 316 477 3X10 F	52 1.11 40 0.17 49 170 0.08 5 382 294 3X10 A	0.39 14 0.16 46 160 206 0.08 6 515 71 4X10 A VELOCITY (tt/min) 594 616 653 650 696	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10	TRUNK H TRUNK I TRUNK J TRUNK K	0 0 0 0 0	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 0 0 0 0 0 0 0	RECT DUCT 0 0 0 0 0 0	EVI x x x x	Buildin PXV	VELOCITY (ft/min) 0 0 0 0 0	RETURN A TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK T TRUNK U	TRUNK CFM 0 0 0 0 0 0 0	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05	anaddy. toala	RECEN	12272	BUILDING D	(ft/min) 0 0 0 0 0 0
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ff/min) COOLING VELOCITY (ff/min) OUTLET GRILL SIZE TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK D TRUNK C	54 2.28 83 0.16 60 180 0.07 6 275 423 4X10 B TRUNK cFM 462 616 871 289 1160	36 1.94 71 0.17 74 200 6 6 184 362 4X10 A STATIC PRESS. 0.06 0.06 0.06 0.09 0.06	29 1.00 36 0.17 30 120 0.11 4 333 413 3X10 F ROUND DUCT 11.3 12.6 14.3 8.6 15.9	4 0.32 12 0.17 40 180 0.08 4 46 138 3X10 B	43 1.78 65 0.17 14 150 0.1 5 316 477 3X10 F	52 1.11 40 0.17 49 170 0.08 5 382 294 3X10 A	0.39 14 0.16 46 160 206 0.08 6 515 71 4X10 A VELOCITY (tt/min) 594 616 653 650 696	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10	TRUNK H TRUNK I TRUNK J TRUNK K	0 0 0 0 0	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 0 0 0 0 0 0 0	RECT DUCT 0 0 0 0 0 0	EVI x x x x	Buildin PXV	VELOCITY (ft/min) 0 0 0 0 0	RETURN A TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK S	TRUNK CFM 0 0 0 0 0 0	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05	9 10 10 10 10 10 10 10 10 10 10 10 10 10	RECEN	×	BUILDING D	(ft/min) 0 0 0 0 0 0 0 0 0 527
RM GAIN MBH. CFM PER RIN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK C TRUNK C TRUNK F	54 2.28 83 0.16 60 180 0.07 6 275 423 4X10 B TRUNK CFM 462 616 871 289 1160 344	36 1.94 71 0.17 74 200 274 0.06 6 184 362 4X10 A STATIC PRESS. 0.06 0.06 0.09 0.06 0.09	29 1.00 36 0.17 30 120 0.11 4 333 413 3X10 F ROUND DUCT 11.3 8.6 15.9 9.1	4 0.32 12 0.17 40 180 220 0.08 4 46 138 3X10 B	43 1.78 65 0.17 14 150 164 0.1 5 316 477 3X10 F	52 1.11 40 0.17 49 170 219 0.08 5 382 294 3X10 A	0.39 14 0.16 46 160 206 6 515 71 4X10 A VELOCITY (ft/min) 594 616 653 650 696 619	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10 A	TRUNK H TRUNK J TRUNK K TRUNK L	O O O O	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RECT DUCT 0 0 0 0 0 0	EVI F	Buildin PXV	VELOCITY (ft/min) 0 0 0 0	TRUNK O TRUNK O TRUNK Q TRUNK R TRUNK S TRUNK T TRUNK U TRUNK U TRUNK U	TRUNK CFM 0 0 0 0 0 0 0 585	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05	anaddy. toala	DUCT CO	12272	BUILDING DIVISIO	(ft/min) 0 0 0 0 0 0
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK C TRUNK C TRUNK F RETURN AIR # AIR VOLUME	54 2.28 83 0.16 60 180 0.07 6 275 423 4X10 B TRUNK cFM 462 616 871 289 1160 344	36 1.94 71 0.17 74 200 274 0.06 6 184 362 4X10 A STATIC PRESS. 0.06 0.06 0.09 0.06 0.09 0.06 0.09	29 1.00 36 0.17 30 120 0.11 4 333 413 3X10 F ROUND DUCT 11.3 12.6 14.3 8.6 15.9 9.1	4 0.32 12 0.17 40 180 220 0.08 4 6 138 3X10 B RECT DUCT 14 18 24 8 30 10 115	43 1.78 65 0.17 14 150 0.1 5 316 477 3X10 F	52 1.11 40 0.17 49 170 219 0.08 5 382 294 3X10 A	0.39 14 0.16 46 160 206 6 515 71 4X10 A VELOCITY (ft/min) 594 616 653 650 696 619	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10 A	TRUNK H TRUNK I TRUNK J TRUNK K TRUNK L 9 0 135	O O O O	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 0 0 0 0 0 0 0 0 0	RECT DUCT 0 0 0 0 0 0 0	EVI F	Buildin PXV	VELOCITY (ff/min) 0 0 0 0 BR 234	TRUNK O TRUNK P TRUNK P TRUNK Q TRUNK T TRUNK U TRUNK V TRUNK V TRUNK W TRUNK X TRUNK Y	TRUNK CFM 0 0 0 0 0 0 585 150 919 685	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	9000 y . 1000 12.9 15.3 13.7	RECEIVO 20 28 22	/22/20	BUILDING DIVISION	(ft/min) 0 0 0 0 0 0 0 0 527 338 591 560
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ffmin) COOLING VELOCITY (ffmin) OUTLET GRILL SIZE TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK C TRUNK C TRUNK F RETURN AIR # AIR VOLUME PLENUM PRESSURE	54 2.28 83 0.16 60 180 0.07 6 275 423 4X10 B TRUNK CFM 462 616 871 1289 1160 344	36 1.94 71 0.17 74 200 274 0.06 6 184 362 4X10 A STATIC PRESS. 0.06 0.06 0.06 0.09 0.06 0.09 0.06 0.09	29 1.00 36 0.17 30 120 0.11 4 333 413 3X10 F ROUND DUCT 11.3 12.6 14.3 8.6 15.9 9.1 3 0 135 0.15	4 0.32 12 0.17 40 180 0.08 4 46 138 3X10 B	43 1.78 65 0.17 14 150 0.1 5 316 477 3X10 F x x x x x x 5 0.15	52 1.11 40 0.17 49 170 0.08 5 382 294 3X10 A 8 8 8 8 8 8 8	0.39 14 0.16 46 160 206 6 515 71 4X10 A VELOCITY (ttrmin) 594 616 653 650 696 619	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10 A	TRUNK H TRUNK J TRUNK K TRUNK L 9 0 135 0.15	OFM O O O O O O O O O O O O O O O O O O	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RECT DUCT 0 0 0 0 0 0 0 0 0 15	* X X X X X X X X X X X X X X X X X X X	Buildin PXV 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0 0 0 BR 234 0.15	TRUNK O TRUNK O TRUNK O TRUNK T TRUNK S TRUNK T TRUNK V TRUNK W TRUNK W TRUNK X TRUNK X TRUNK Z	TRUNK CFM 0 0 0 0 0 0 585 150 919 685 535	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	9. 103 143.7 12.5	RO CO CO CO CO CO CO CO CO CO CO CO CO CO	122/2022	BUILDING DIVISION	(ft/min) 0 0 0 0 0 0 0 527 338 591 560 535
RM GAIN MBH. CFM PER RIN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (f/min) COOLING VELOCITY (f/min) OUTLET GRILL SIZE TRUNK SUPPLY AIR TRUNK SIZE TRUNK C TRUNK C TRUNK C TRUNK C TRUNK C TRUNK F RETURN AIR # AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH.	54 2.28 83 0.16 60 180 0.07 6 275 423 4X10 B TRUNK CFM 462 616 871 289 1160 344	36 1.94 71 0.17 74 200 6 6 184 362 4X10 A STATIC PRESS 0.06 0.06 0.09 0.06 0.09 2 0 75 0.15 68	29 1.00 36 0.17 30 120 0.11 4 333 413 3X10 F ROUND DUCT 11.3 12.6 14.3 8.6 15.9 9.1	4 0.32 12 0.17 40 180 0.08 4 46 138 3X10 B RECT DUCT 14 8 30 10 115 0.15 74	43 1.78 65 0.17 14 150 164 0.1 5 316 477 3X10 F	52 1.11 40 0.17 49 170 0.08 5 382 294 3X10 A 8 8 8 8 8 8 8 8 0 75 0.15 69	0.39 14 0.16 46 160 206 0.08 6 515 71 4X10 A VELOCITY (t/min) 594 616 653 650 696 619	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10 A	TRUNK H TRUNK J TRUNK K TRUNK L 9 0 135 0.15 38	O O O O O O O O O O O O O O O O O O O	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 0 0 0 0 0 0 0 0 0 0 0 0 0 15 1	RECT DUCT 0 0 0 0 0 0 0 0 15 1	* X X X X X X X X X X X X X X X X X X X	8 8 8 8 8 8 8 8 1 0 0 0.15 1	VELOCITY (ft/min) 0 0 0 0 0 0 0 0 0 0 0 17 17	TRUNK O TRUNK P TRUNK P TRUNK Q TRUNK T TRUNK U TRUNK V TRUNK V TRUNK W TRUNK X TRUNK Y	TRUNK CFM 0 0 0 0 0 0 585 150 919 685	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	9000 y . 1000 12.9 15.3 13.7	RECEIVO 20 28 22	122/202	BUILDING DIVISION	(ft/min) 0 0 0 0 0 0 0 0 527 338 591 560
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK C TRUNK C TRUNK F RETURN AIR # AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH	54 2.28 83 0.16 60 180 0.07 6 275 423 4X10 B TRUNK CFM 462 616 871 289 1160 344	36 1.94 71 0.17 74 200 274 0.06 6 184 362 4X10 A STATIC PRESS. 0.06 0.06 0.09 0.06 0.09 0.06 0.09 2 0 75 0.15 68 235	29 1.00 36 0.17 30 120 0.11 4 333 413 3X10 F ROUND DUCT 11.3 12.6 14.3 8.6 15.9 9.1 3 0 135 0.15 57 215	4 0.32 12 0.17 40 180 220 0.08 4 6 138 3X10 B RECT DUCT 14 18 24 8 30 10 115 0.15 74 235	43 1.78 65 0.17 14 150 0.1 5 316 477 3X10 F x x x x x x x 5 0.75 0.15	52 1.11 40 0.17 49 170 219 0.08 5 382 294 3X10 A 8 8 8 8 8 8 8 6 0 75 0.15 69 215	0.39 14 0.16 46 160 206 6 515 71 4X10 A VELOCITY ((t/min)) 594 615 653 650 696 619 7 0 185 0.15 21	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10 A	TRUNK H TRUNK J TRUNK K TRUNK L 9 0 135 0.15 38 285	O O O O O O O O O O O O O O O O O O O	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RECT DUCT 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0	× × × × × × × × × × × × × × × × × × ×	8 8 8 8 8 8 8 8 1 0 0 0.15 1 0 0	VELOCITY ((ff/min) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TRUNK O TRUNK O TRUNK O TRUNK T TRUNK S TRUNK T TRUNK V TRUNK W TRUNK W TRUNK X TRUNK X TRUNK Z	TRUNK CFM 0 0 0 0 0 0 585 150 919 685 535	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	9. 103 143.7 12.5	RO CO CO CO CO CO CO CO CO CO CO CO CO CO	122/2022	BUILDING DIVISION	(ft/min) 0 0 0 0 0 0 0 527 338 591 560 535
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ff/min) COOLING VELOCITY (ff/min) OUTLET GRILL SIZE TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK C TRUNK C TRUNK F RETURN AIR # AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LH	54 2.28 83 0.16 60 180 0.07 6 275 423 4X10 B TRUNK CFM 462 616 871 1289 1160 344	36 1.94 71 0.17 74 200 274 0.06 6 184 362 4X10 A STATIC PRESS 0.06 0.06 0.06 0.09 0.06 0.09 0.15 68 235 303	29 1.00 36 0.17 30 120 0.11 4 333 413 3X10 F ROUND DUCT 11.3 12.6 14.3 8.6 15.9 9.1 3 0 135 0.15 57 215 272	4 0.32 12 0.17 40 180 0.08 4 46 138 3X10 B RECT DUCT 14 18 24 8 30 10 4 0 115 0.15 74 235 309	43 1.78 65 0.17 14 150 0.1 5 316 477 3X10 F x x x x x x x 2 0.1 5 0.1 5 0.1 5 0.1 5 0.1 5 0.1 5 0.1 7 5 0.1 7 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	52 1.11 40 0.17 49 170 0.08 5 382 294 3X10 A 8 8 8 8 8 8 8 8 9 75 0.15 69 215 284	0.39 14 0.16 46 160 206 6 515 71 4X10 A VELOCITY (ft/min) 594 616 653 650 696 619 7 0 185 0.15 21 155 176	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10 A	TRUNK H TRUNK J TRUNK K TRUNK L 9 0 135 0.15 38 285 323	OFM O O O O O O O O O O O O O O O O O O	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00 0.015 1 0 0 1	ROUND DUCT 0 0 0 0 0 0 0 0 0 0 15 1 0 0 1	RECT DUCT 0 0 0 0 0 0 15 1 0 0 1	x x x x x x x x x x 1 0 0 0.15 1 0 1	8 8 8 8 8 8 8 1 0 0 0.15 1 0 0 1	VELOCITY ((t/min) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TRUNK O TRUNK O TRUNK O TRUNK T TRUNK S TRUNK T TRUNK V TRUNK W TRUNK W TRUNK X TRUNK X TRUNK Z	TRUNK CFM 0 0 0 0 0 0 585 150 919 685 535	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	9. 103 143.7 12.5	RO CO CO CO CO CO CO CO CO CO CO CO CO CO	122/2022	BUILDING DIVISION	(ft/min) 0 0 0 0 0 0 0 527 338 591 560 535
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK C TRUNK C TRUNK F RETURN AIR # AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH	54 2.28 83 0.16 60 180 0.07 6 275 423 4X10 B TRUNK CFM 462 616 871 289 1160 344	36 1.94 71 0.17 74 200 274 0.06 6 184 362 4X10 A STATIC PRESS. 0.06 0.06 0.09 0.06 0.09 0.06 0.09 2 0 75 0.15 68 235	29 1.00 36 0.17 30 120 0.11 4 333 413 3X10 F ROUND DUCT 11.3 12.6 14.3 8.6 15.9 9.1 3 0 135 0.15 57 215	4 0.32 12 0.17 40 180 220 0.08 4 6 138 3X10 B RECT DUCT 14 18 24 8 30 10 115 0.15 74 235	43 1.78 65 0.17 14 150 0.1 5 316 477 3X10 F x x x x x x x 5 0.75 0.15	52 1.11 40 0.17 49 170 219 0.08 5 382 294 3X10 A 8 8 8 8 8 8 8 6 0 75 0.15 69 215	0.39 14 0.16 46 160 206 0.08 6 515 71 4X10 A VELOCITY (ft/min) 594 616 653 650 619 7 0 185 0.15 21 155 0.08	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10 A	TRUNK H TRUNK J TRUNK K TRUNK L 9 0 135 0.15 38 285	O O O O O O O O O O O O O O O O O O O	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RECT DUCT 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0	× × × × × × × × × × × × × × × × × × ×	8 8 8 8 8 8 8 8 1 0 0 0.15 1 0 0	VELOCITY (ft/min) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TRUNK O TRUNK O TRUNK O TRUNK T TRUNK S TRUNK T TRUNK V TRUNK W TRUNK W TRUNK X TRUNK X TRUNK Z	TRUNK CFM 0 0 0 0 0 0 585 150 919 685 535	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	9. 103 143.7 12.5	RO CO CO CO CO CO CO CO CO CO CO CO CO CO	122/2022	BUILDING DIVISION	(ft/min) 0 0 0 0 0 0 0 527 338 591 560 535
RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (Mmin) COOLING VELOCITY (Mmin) OUTLET GRILL SIZE TRUNK SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK C TRUNK C TRUNK F RETURN AIR # AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LH ADJUSTED PRESSURE	54 2.28 83 0.16 60 180 0.07 6 275 423 4X10 8 TRUNK cFM 462 616 871 289 1160 344	36 1.94 71 0.17 74 200 6 6 184 362 4X10 A STATIC PRESS. 0.06 0.06 0.09 2 0 75 0.15 68 235 68 235 303 0.05	29 1.00 36 0.17 30 120 0.11 4 333 413 3X10 F ROUND DUCT 11.3 12.6 14.3 8.6 15.9 9.1 3 0 135 0.15 57 215 272 0.05	4 0.32 12 0.17 40 180 0.08 4 46 138 3X10 B RECT DUCT 14 18 24 8 30 10 115 0.15 74 235 309 0.05	43 1.78 65 0.17 14 150 164 0.1 5 316 477 3X10 F X X X X X X X 75 0.15 67 220 0.05	52 1.11 40 0.17 49 170 0.08 5 382 294 3X10 A 8 8 8 8 8 8 8 8 9 75 0.15 69 218 0.05	0.39 14 0.16 46 160 206 6 515 71 4X10 A VELOCITY (ft/min) 594 616 653 650 696 619 7 0 185 0.15 21 155 176	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10 A	TRUNK H TRUNK J TRUNK K TRUNK L 9 0 135 0.15 38 285 323 0.05	OFM O O O O O O O O O O O O O O O O O O	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 0 0 0 0 0 0 0 15 1 0 1 14.80	RECT DUCT 0 0 0 0 0 0 0 15 1 0 1 14.80	EVI x x x x x x 1 0 0.15 1 0 14.80	8 8 8 8 8 8 8 1 0 0 0.15 1 0 1 14.80	VELOCITY ((t/min) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TRUNK O TRUNK O TRUNK O TRUNK T TRUNK S TRUNK T TRUNK V TRUNK W TRUNK W TRUNK X TRUNK X TRUNK Z	TRUNK CFM 0 0 0 0 0 0 585 150 919 685 535	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	9. 103 143.7 12.5	RO CO CO CO CO CO CO CO CO CO CO CO CO CO	122/2022	BUILDING DIVISION	(ft/min) 0 0 0 0 0 0 0 527 338 591 560 535
RM GAIN MBH. CFM PER RIN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK SUPPLY AIR TRUNK SIZE TRUNK C TRUNK C TRUNK C TRUNK C TRUNK F RETURN AIR # AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LH ADJUSTED PRESSURE ROUND DUCT SIZE	54 2.28 83 0.16 60 180 0.07 6 275 423 4X10 B TRUNK CFM 462 616 871 289 1160 344	36 1.94 71 0.17 74 200 6 6 184 362 4X10 A STATIC PRESS 0.06 0.06 0.09 0.06 0.09 2 0 75 0.15 68 235 303 0.05 6	29 1.00 36 0.17 30 120 0.11 4 333 413 3X10 F ROUND DUCT 11.3 12.6 14.3 8.6 15.9 9.1 3 0 135 0.15 57 215 272 0.05 7.5	4 0.32 12 0.17 40 180 0.08 4 46 138 3X10 B RECT DUCT 14 8 30 10 115 0.15 74 235 309 0.05 7	43 1.78 65 0.17 14 150 164 0.1 5 316 477 3X10 F x x x x x x x x x 220 287 0.05 6	52 1.11 40 0.17 49 170 0.08 5 382 294 3X10 A	0.39 14 0.16 46 160 206 6 515 71 4X10 A VELOCITY (ft/min) 594 615 653 650 696 619 7 0 185 0.15 21 155 176 0.08 7.5	1.94 71 0.17 70 200 270 0.06 6 184 362 4X10 A	TRUNK H TRUNK J TRUNK S TRUNK K TRUNK L 9 0 135 0.15 38 285 323 0.05 7.5	O O O O O O O O O O O O O O O O O O O	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 0 0 0 0 0 0 0 0 0 1 1 4.80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RECT DUCT 0 0 0 0 0 0 0 0 15 1 0 1 14.80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EVI x x x x x x 1 0 0 1 14.80 0	8 8 8 8 8 8 8 1 0 0 1 1 1 1 1 1 1 1 1 1	VELOCITY (ff/min) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TRUNK O TRUNK O TRUNK O TRUNK T TRUNK S TRUNK T TRUNK V TRUNK W TRUNK W TRUNK X TRUNK X TRUNK Z	TRUNK CFM 0 0 0 0 0 0 585 150 919 685 535	STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	9. 103 143.7 12.5	RO CO CO CO CO CO CO CO CO CO CO CO CO CO	122/2022	BUILDING DIVISION	(ft/min) 0 0 0 0 0 0 0 527 338 591 560 535

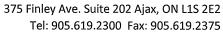


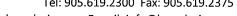
TYPE: TERRACOTA 3 LO# SITE NAME: ROUNDEL HOMES INC CITY OF RICHMOND HILL RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY BUILDING DIVISION COMBUSTION APPLIANCES SUPPLEMENTAL VENTILATION CAPACITY 9.32.3.1(1) 9.32.3.5. a) ✓ Direct vent (sealed combustion) only **Total Ventilation Capacity** cfm Positive venting induced draft (except fireplaces) Less Principal Ventil, Capacity cfm C) Natural draft, B-vent or induced draft gas fireplace Required Supplemental Capacity 153.7 cfm Solid Fuel (including fireplaces) PRINCIPAL EXHAUST FAN CAPACITY No Combustion Appliances e) VANEE V150H Model: Location: **BSMT** HEATING SYSTEM 79.5 3.0 ✓ HVI Approved sones ✓ Forced Air Non Forced Air PRINCIPAL EXHAUST HEAT LOSS CALCULATION % LOSS FACTOR 79.5 CFM 1.08 78 F 0.25 Electric Space Heat SUPPLEMENTAL FANS PANASONIC Location Model cfm Sones HOUSE TYPE 9.32.1(2) FV-05-11VK1 ENS 50 0.3 ENS-2/3 FV-05-11VK1 50 0.3 1 Type a) or b) appliance only, no solid fuel ENS-4 FV-05-11VK1 50 0.3 WIC-G FV-05-11VK1 50 0.3 Type I except with solid fuel (including fireplaces) HEAT RECOVERY VENTILATOR 9.32.3.11. VANEE V150H Ш Any Type c) appliance Model: 150 35 cfm low cfm high Type I, or II with electric space heat % Sensible Efficiency ✓ HVI Approved 75 Other: Type I, II or IV no forced air @ 32 deg F (0 deg C) LOCATION OF INSTALLATION SYSTEM DESIGN OPTIONS O.N.H.W.P. Lot: Concession Exhaust only/Forced Air System Township Plan: HRV with Ducting/Forced Air System Address HRV Simplified/connected to forced air system Roll# Richmond Hi City of Richmond Hill HRV with Ducting/non forced air system BUILDER: GREENPARK HOMES Building Division Part 6 Design Name: HVAC REVIEWED TOTAL VENTILATION CAPACITY 9.32.3.3(1) Address: **PXV** @ 21.2 cfm Basement + Master Bedroom 42.4 cfm City: Initials: @ 10.6 cfm 31.8 Other Bedrooms cfm Telephone #: Kitchen & Bathrooms @ 10.6 cfm 63.6 cfm INSTALLING CONTRACTOR Other Rooms @ 10.6 cfm 95.4 Name: cfm Table 9.32.3.A. TOTAL 233.2 cfm Address: City: PRINCIPAL VENTILATION CAPACITY REQUIRED 9.32.3.4.(1) Telephone #: Bedroom 31.8 cfm DESIGNER CERTIFICATION Bedroom 47.7 cfm I hereby certify that this ventilation system has been designed in accordance with the Ontario Building Code. 3 Bedroom 63.6 cfm Name: HVAC Designs Ltd. Bedroom cfm Signature: 001820 5 Bedroom 95.4 cfm HRAI# TOTAL cfm

ATE CATEGORY AS AN "OTHER DESIGNER" UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.

I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUALIFIED IN THE INDIVIDUAL BCIN: 19669 Maked OfficeLe

Floor Height (Ft) Volume (Ft*) Floor Height (Ft) Volume (Ft*) Floor Height (Ft) Volume (Ft*) Floor Height (Ft*) Floor	Builder: GREENPARK HOMES Air Change & Delta T Data WINTER NATURAL AIR CHANGE RATE	9	Date: 2021-05-11
$HG_{salb} = Li$ $= 6479 \text{ W}$ $= 22106 \text{ Btu/h}$ $= 1670 \text{ Btu/h}$	ER NATURAL A	ure Differer t °C	C AT*F
= 6479 W $= 22106 Btu/h$ $= 1670$	6.2.6 Sensible Gain du	to Air Leakage	
$HL_{vairb} = PV$ $total action of Air Change Heat Loss for Each Room (Floor Multiplier) and the sirbut of Air Change Heat Loss for Each Room (Floor Multiplier) and the sirbut of Air Leakage + Level Conductive Heat Air Leakage + Level Conductive Heat Air Leakage + Loss: (HLclevel) + HL air Leakage + Loss: (HLclevel) + HI air Leakage + HI air Leakage + HI air Leakage + HI air Leakage + HI air Leakage + HI air Leakage + HI air Leakage + HI air Leakage + HI air Leakage + HI air Leakage + HI air Leakage + HI air Leakage$	$HG_{salb} = LR_{airc} \times \frac{V_b}{3.6} \times DTD_c$	×1.2 - × 1.2 =	333 W 1135 Btu/h
ulation of Air Change Heat Loss for Each Room $ctor \times HL_{airbv} \times \{(HL_{agcr} + HL_{bgcr})$ Hairve Air Leakage + Level Conductive H (Btu/h) 10,014 13,758 22,106 0 0	6.2.7 Sensible heat Gain	lue to Ventilation	
	$L_{vairb} = PVC \times DTD_h \times 1.08 \times$	(1-E)	
$L_{airr} = Level\ Factor\ X \ HL_{airbu}\ X \ \{(H) \ Level\ Factor\ (LF) \ Ventilation\ Heat Loss \ (Btu/h) \ 0.5 \ 0.3 \ 0.2 \ 0.2 \ 0.0 \ 0 \ 0$	13 °F ×	x 0.25 =	275 Btu/h
$L_{airr} = Level \ Factor \times HL_{airbv} \times \{(H) \ \ \ \ \ \ \ \ \ \ \ \ \ $	loor Multiplier Section)		
HLairve Air Leakage + Level Factor (LF) Ventilation Heat Loss 0.5 (Btu/h) 0.2 22,106 0 0 0 0	$\div \left(HL_{agclevel} + HL_{bgclevel} ight) \}$	Per	(
0.5 10,014 0.3 13,758 0.2 22,106 15,848 0 0 0 0	at Air Leakage Heat Loss Multiplier (LF) HLairbv / HLlevel)	RE)9/2 RE
22,106 15,848 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.104		NG 22 CE
0 0 0	0.482		/2
0	0.279	-	2(V I
	0.000	E[) () ()
*HLairbv = Air leakage heat loss + ventilation heat loss *For a balanced or supply only ventilation system HLairve = 0) jand	22)







Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca

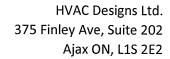
HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: SFQT:	TERRACOTA 3 3496	LO#	90749	В	JILDER: YGREENPARKIHOMES HILL SITEB ROUNDEGHOMES INCI	-
DESIGN A	SSUMPTIONS				09/22/2022	
	R DESIGN TEMP. DESIGN TEMP. DATA		°F -6 72	COOLING OUTDOOR DI INDOOR DESI	RECEIVED SIGN TEMP. GN TEMP: (MAXI) நிalaalejandr	°F 88 • 75
ATTACHM	ENT:		DETACHED	# OF STORIES	(+BASEMENT):	3
FRONT FA	CES:		EAST	ASSUMED (Y/	'N):	Υ
AIR CHAN	GES PER HOUR:		3.57	ASSUMED (Y/	'N):	Υ
AIR TIGHT	NESS CATEGORY:		AVERAGE	ASSUMED (Y/	′N):	Υ
WIND EXP	OSURE:		SHELTERED	ASSUMED (Y/	(N):	Υ
HOUSE VC	DLUME (ft³):		45135.0	ASSUMED (Y/	(N):	Υ
INTERNAL	SHADING:	BLINDS	CURTAINS	ASSUMED OC	CUPANTS:	5
INTERIOR	LIGHTING LOAD (Btu/h	/ft²):	1.27	DC BRUSHLES	S MOTOR (Y/N):	Υ
FOUNDAT	ION CONFIGURATION		BCIN_1	DEPTH BELOV	V GRADE:	5.0 ft
LENGTH:	57.0 ft	WIDTH:	37.0 ft	EXPOSED PER	IMETER:	188.0 ft

2012 OBC - COMPLIANCE PACKAGE					
	Compliance	Package			
Component	A1				
	Nominal	Min. Eff.			
Ceiling with Attic Space Minimum RSI (R)-Value	60	59.22			
Ceiling Without Attic Space Minimum RSI (R)-Value	31	27.65			
Exposed Floor Minimum RSI (R)-Value	31	29.80			
Walls Above Grade Minimum RSI (R)-Value	22	17.03			
Basement Walls Minimum RSI (R)-Value	20 ci	21.12			
Below Grade Slab Entire surface > 600 mm below grade Minimum RSI (R)-Value	-	-			
Edge of Below Grade Slab ≤ 600 mm Below Grade Minimum RSI (R)-Value	10	10			
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value	10	11.13			
Windows and Sliding Glass Doors Maximum U-Value	0.28	-			
Skylights Maximum U-Value	0.49	-			
Space Heating Equipment Minimum AFUE	0.96	-			
HRV Minimum Efficiency	75%	-			
Domestic Hot Water Heater Minimum EF	0.8	_			

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE





905-619-2300



CITY OF RICHMOND HILL BUILDING DIVISION

Residential Foundation Thermal Load Calculator

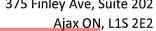
Supplemental tool for CAN/CSA-F280

RECEIVED

We	ather Static	n Description	Per:maddy.toalaalejand
Province:	Ontario		
Region:	Richmond F	lill	
	Site Des	cription	
Soil Conductivity:	Normal con	ductivity: dry sand,	, loam, clay
Water Table:	Normal (7-1	.0 m, 23-33 ft)	
F	oundation I	Dimensions	
Floor Length (m):	17.4		
Floor Width (m):	11.3		An Committee of the State of th
Exposed Perimeter (m):	0.0		
Wall Height (m):	2.4		
Depth Below Grade (m):	1.52	Insulatio	n Configuration
Window Area (m²):	1.8		
Door Area (m²):	1.9		
	Radian	t Slab	
Heated Fraction of the Slab:	0		
Fluid Temperature (°C):	33		
	Design N	/lonths	
Heating Month	1		
	Foundatio	n Loads	
Heating Load (Watts):		190	8

TYPE: TERRACOTA 3

LO# 90749





CITY OF RICHMOND HILL905-619-2300 BUILDING DIVISION

09/22/2022

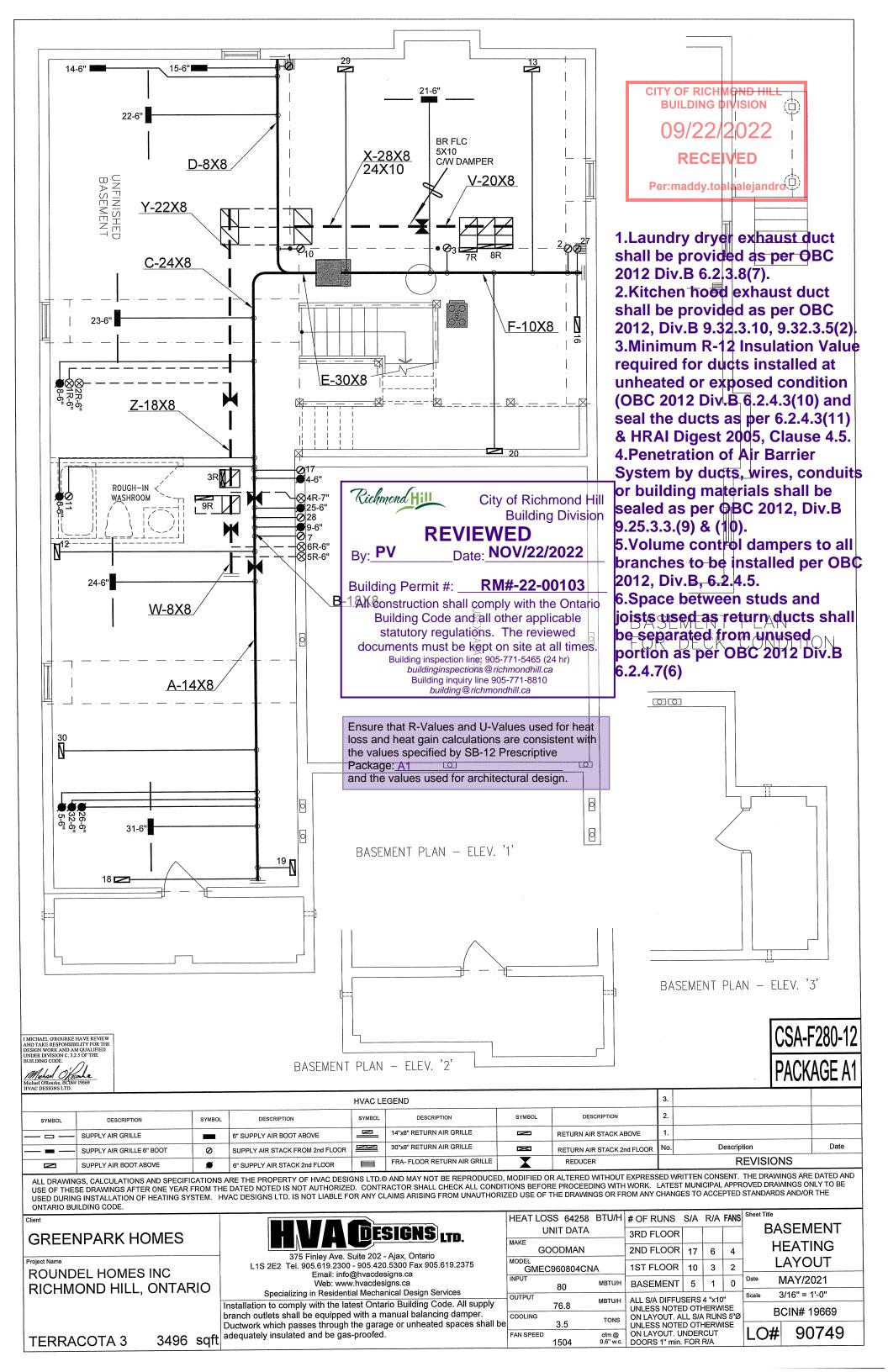
Air Infiltration Residential Load Calculaton

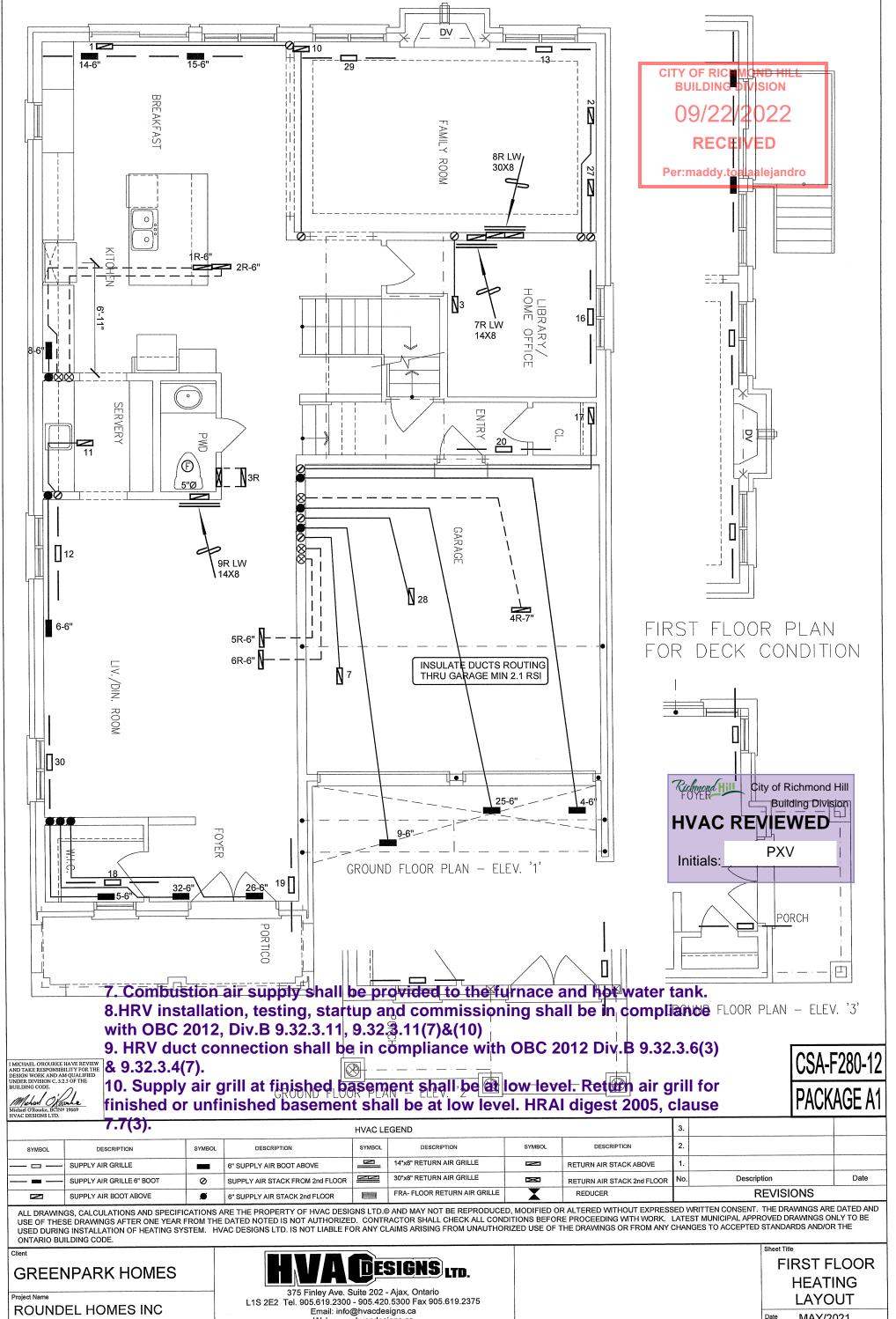
Supplemental tool for CAN/CSA-F280

Per:maddy.toalaalejandro

Weather Statio	n Des	cript	ion		
Province:	Ontai	rio			
Region:	Richn	nond H	ill		
Weather Station Location:	Open	flat te	rrain, g	grass	
Anemometer height (m):	10				
Local Sh	ieldin	g	· · · · · · · · · · · · · · · · · · ·		
Building Site:	Subu	ban, fo	orest		
Walls:	Heav	y			
Flue:	Heav	y			
Highest Ceiling Height (m):	7.62				
Building Cor	figur	ation			
Type:	Detac	hed			
Number of Stories:	Two				
Foundation:	Full				
House Volume (m³):	1278.	1			
Air Leakage/	Venti	ation)		
Air Tightness Type:	Prese	nt (196	51-) (3.	57 ACH	H)
Custom BDT Data:	ELA @	9 10 Pa	1.		1703.7 cm²
	3.57				ACH @ 50 Pa
Mechanical Ventilation (L/s):	To	tal Sup	ply		Total Exhaust
		37.5			37.5
Flue S	Size				
Flue #:	#1	#2	#3	#4	
Diameter (mm):	0	0	0	0	
Natural Infiltr	ation	Rate	S		
Heating Air Leakage Rate (ACH/H):		0	.35	2	
Cooling Air Leakage Rate (ACH/H):		0	.11	0	

TYPE: TERRACOTA 3 **LO#** 90749





RICHMOND HILL, ONTARIO

3496 sqft

TERRACOTA 3

Web: www.hvacdesigns.ca

Specializing in Residential Mechanical Design Services

Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper. Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

MAY/2021 3/16" = 1'-0" BCIN# 19669

LO# 90749

