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RUSBUS

201, 203, & 210 S. SOUTH WEST STREET RALEIGH, NC 27601

OWNER

ARCHITECT

ADDENDA

Addendum Issued: NONE

Please review any Addendum issued after Date
09/29/23

ID: -2617

BIDDER NAME: _____

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			TOTAL MAN HOURS	MATERIAL (\$Per Unit)	EQUIPMENT (\$Per Unit)	COMPOSITE RATE/UNIT	TOTAL COST		
							MHrs/ Unit	\$/Hour	(\$Per Unit)							
			010000	DIVISION 01 - GENERAL REQUIREMENTS												
1				MOBILIZATION	1	LS										
2				BOND & INSURANCE	1	LS										
3				SUPERVISION	1	LS										
4				SUBMITTALS & SAMPLES	1	LS										
5				TEMPORARY FACILITIES & CONTROLS	1	LS										
6				PROJECT SCHEDULE	1	LS										
7				CLOSEOUT PROCEDURES	1	LS										
8				PERMITS	1	LS										
Subtotal													\$			
				RUSBUS RESIDENTIAL TOWER												
			150000	DIVISION 15 - HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)												
				LEVEL#1												
9	M-201-NE To M-201-S			EUH-1-1 - ELECTRIC UNIT HEATER - MANUF: RAYWALL - MODEL: 5100	1	EA										
10				EUH-1-2 - ELECTRIC UNIT HEATER - MANUF: RAYWALL - MODEL: 5100	1	EA										
11				EUH-1-3 - ELECTRIC UNIT HEATER - MANUF: RAYWALL - MODEL: 5100	1	EA										
12				EUH-1-4 - ELECTRIC UNIT HEATER - MANUF: RAYWALL - MODEL: 5100	1	EA										
13				COMBINATION FIRE SMOKE DAMPER	9	EA										
14				EUH-1-5 - ELECTRIC UNIT HEATER - MANUF: RAYWALL - MODEL: 5100	1	EA										
15				EUH-1-6 - ELECTRIC UNIT HEATER - MANUF: RAYWALL - MODEL: 5100	1	EA										
16				AHU-1-1 - AIR HANDLING UNIT - MANUF: CARRIER,(5 TON)	1	EA										
17				AHU-1-2 - AIR HANDLING UNIT - MANUF: CARRIER,(4 TON)	1	EA										
18				AHU-1-3 - AIR HANDLING UNIT - MANUF: CARRIER,(4 TON)	1	EA										
19				HEAT PUMP OUTDOOR UNIT - CARRIER (4 TON)	2	EA										
20				HEAT PUMP OUTDOOR UNIT - CARRIER (5 TON)	1	EA										
21				FIRE DAMPER	3	EA										
22				DFH-1-1 - DUCTLESS SPLIT SYSTEM - MANUF: MITSUBISHI - MODEL: PKA, (700 CFM),PUZ	1	EA										
23				EWH-1-1 - ELECTRIC HEATER - MANUF: RAYWALL - MODEL: AFA	1	EA										
24				EUH-1-7 - ELECTRIC UNIT HEATER - MANUF: RAYWALL - MODEL: 5100	1	EA										
25				EUH-1-8 - ELECTRIC UNIT HEATER - MANUF: RAYWALL - MODEL: 5100	1	EA										
26				EUH-1-9 - ELECTRIC UNIT HEATER - MANUF: RAYWALL - MODEL: 5100	1	EA										
27				EUH-1-10 - ELECTRIC UNIT HEATER - MANUF: RAYWALL - MODEL: 5100	1	EA										
28				EUH-1-11 - ELECTRIC UNIT HEATER - MANUF: RAYWALL - MODEL: 5100	1	EA										
29				EUH-1-12 - ELECTRIC UNIT HEATER - MANUF: RAYWALL - MODEL: 5100	1	EA										
30				EUH-1-13 - ELECTRIC UNIT HEATER - MANUF: RAYWALL - MODEL: 5100	1	EA										
31				F - (24"X24") - 35DEG FIXED BLADE RETURN GRILLE - MANUF: TITUS - MODEL: 350RL, (2200 CFM)	1	EA										
32				EXHAUST LOUVER	1	EA										
33				EUH-1-14 - ELECTRIC UNIT HEATER - MANUF: RAYWALL - MODEL: 5100	1	EA										
34				EWH-1-2 - ELECTRIC HEATER - MANUF: RAYWALL - MODEL: AFA	1	EA										
35				(12X12) DUCT CAP	3	EA										
36				(60X16) DUCT CAP	1	EA										
37				(24X24) DUCT CAP	1	EA										
38				(30X20) DUCT CAP	1	EA										
39				Sealant UL-181	32	GAL										
40				1X2X1 CHANNEL	82	EA										
41				(1.5") DUCT HANGER STRAP	328	LF										
				Galvanized sheet metal duct w/ Wrap equal to ownes corning fiberglass w/ FRK vapor barrier. Insulation shall be R-6 except on roof shall be R-8.												
42				M-201-NE To M-201-S			(30"x28") METAL DUCT W/ 2HR FIRE WRAP. (9 LF)	100	LB							
43							(12"x12") METAL DUCT. (59 LF)	213	LB							
44	(24"x24") METAL DUCT W/ 2HR FIRE WRAP. (61 LF)	560	LB													
45	(24"x12") METAL DUCT. (325 LF)	2251	LB													
46	(32"x20") METAL DUCT. (9 LF)	107	LB													
47	(10"x8") METAL DUCT. (139 LF)	376	LB													
48	(24"x20") METAL DUCT. (45 LF)	377	LB													
49	(60"x16") METAL DUCT W/ 2HR FIRE WRAP. (6 LF)	112	LB													
50	(18"x18") METAL DUCT. (6 LF)	41	LB													
51	TOTAL WEIGHT (LBS) :				4137	LBS										
52				FITTINGS												
53				(10"x8") 90 DEGREE ELBOW	2	EA										
54				(12"x12") 90 DEGREE ELBOW	3	EA										
55				(24"x12") 45 DEGREE ELBOW	2	EA										
56				(24"x12") 90 DEGREE ELBOW	7	EA										
57	(24"x24") 90 DEGREE ELBOW	2	EA													
57				OTHERS(FIRE WRAP)												
58				(30"x28") METAL DUCT W/ 2HR FIRE WRAP. (9 LF)	87	SF										
59				(24"x24") METAL DUCT W/ 2HR FIRE WRAP. (61 LF)	488	SF										
59	(60"x16") METAL DUCT W/ 2HR FIRE WRAP. (6 LF)	76	SF													
Subtotal																
				GARAGE AREA												
60				DFH-2-1 - DUCTLESS SPLIT SYSTEM - MANUF: MITSUBISHI - MODEL: PKA, (700 CFM)	1	EA										
61				DFH-2-2 - DUCTLESS SPLIT SYSTEM - MANUF: MITSUBISHI - MODEL: PKA, (700 CFM)	1	EA										
62				DHP-2-1 - DUCTLESS HEAT PUMP - MANUF: MITSUBISHI - MODEL: PUZ	1	EA										
63				DHP-2-2 - DUCTLESS HEAT PUMP - MANUF: MITSUBISHI - MODEL: PUZ	1	EA										
64				DHP-1-1 - DUCTLESS HEAT PUMP - MANUF: MITSUBISHI - MODEL: PUZ	1	EA										
65				EWH-2-1 - ELECTRIC HEATER - MANUF: RAYWALL - MODEL: AFA	1	EA										
66				EWH-2-2 - ELECTRIC HEATER - MANUF: RAYWALL - MODEL: AFA	1	EA										
67				EWH-2-3 - ELECTRIC HEATER - MANUF: RAYWALL - MODEL: AFA	1	EA										
68				EWH-2-4 - ELECTRIC HEATER - MANUF: RAYWALL - MODEL: AFA	1	EA										
69				EWH-2-5 - ELECTRIC HEATER - MANUF: RAYWALL - MODEL: AFA	1	EA										
70				COMBINATION FIRE SMOKE DAMPER	8	EA										
71				SMOKE DAMPER	3	EA										
72				ALUMINUM SIDEWALL SUPPLY AIR TERMINAL BALANCED TO 135 CFM	2	EA										
73				FIRE SMOKE DAMPER	21	FA										

SL	QTY	UNIT	LABOR	TOTAL MAN	MATERIAL	EQUIPMENT	COMPOSITE	TOTAL COST
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LINE #	QTY	DESCRIPTION	UNIT	LABOR	TOTAL MAN	MATERIAL	EQUIPMENT	COMPOSITE	TOTAL COST
145		E - (6"X6") - DOUBLE DEFLECTION REGISTER - MANUF: TITUS - MODEL: 300RS. (65 CFM)	26	EA					
146		E - (6"X6") - DOUBLE DEFLECTION REGISTER - MANUF: TITUS - MODEL: 300RS. (75 CFM)	11	EA					
147		E - (6"X6") - DOUBLE DEFLECTION REGISTER - MANUF: TITUS - MODEL: 300RS. (85 CFM)	1	EA					
148		G - (12"X8") - DOUBLE DEFLECTION REGISTER - MANUF: TITUS - MODEL: 300FS. (50 CFM)	18	EA					
149		AHU-5-1 - AIR HANDLING UNIT - MANUF: CARRIER (5 TON)	1	EA					
150		AHU-5-10 - AIR HANDLING UNIT - MANUF: CARRIER (3 TON)	1	EA					
151		AHU-5-2 - AIR HANDLING UNIT - MANUF: CARRIER (4 TON)	1	EA					
152		AHU-5-3 - AIR HANDLING UNIT - MANUF: CARRIER (4 TON)	1	EA					
153		AHU-5-4 - AIR HANDLING UNIT - MANUF: CARRIER (4 TON)	1	EA					
154		AHU-5-5 - AIR HANDLING UNIT - MANUF: CARRIER (4 TON)	1	EA					
155		AHU-5-6 - AIR HANDLING UNIT - MANUF: CARRIER (3 TON)	1	EA					
156		AHU-5-7 - AIR HANDLING UNIT - MANUF: CARRIER (3 TON)	1	EA					
157		AHU-5-8 - AIR HANDLING UNIT - MANUF: CARRIER (3 TON)	1	EA					
158		AHU-5-9 - AIR HANDLING UNIT - MANUF: CARRIER (3 TON)	1	EA					
159		AHU-23-1 - AIR HANDLING UNIT - MANUF: CARRIER (4 TON)	1	EA					
160		AHU-23-2 - AIR HANDLING UNIT - MANUF: CARRIER (4 TON)	1	EA					
161		AHU-23-3 - AIR HANDLING UNIT - MANUF: CARRIER (4 TON)	1	EA					
162		HEAT PUMP OUTDOOR UNIT - CARRIER (3 TON)	5	EA					
163		HEAT PUMP OUTDOOR UNIT - CARRIER (4 TON)	7	EA					
164		HEAT PUMP OUTDOOR UNIT - CARRIER (5 TON)	1	EA					
165		TEF-R-2 - EXHAUST FAN - MANUF: GREENHECK - MODEL: USF, (3250 CFM)	1	EA					
166		SPF-R-1 - SMOKE CONTROL/PRESSURIZATION FAN - MANUF: GREENHECK - MODEL: AX, (24200 CFM)	1	EA					
167		OAU-R-1 - OUTSIDE AIR UNIT - MANUF: AAON - MODEL: RN, (7000 CFM)	1	EA					
168		OAU-R-2 - OUTSIDE AIR UNIT - MANUF: AAON - MODEL: RN, (7000 CFM)	1	EA					
169		TEF-R-1 - EXHAUST FAN - MANUF: GREENHECK - MODEL: USF, (2250 CFM)	1	EA					
170		SPF-R-2 - SMOKE CONTROL/PRESSURIZATION FAN - MANUF: GREENHECK - MODEL: AX, (24200 CFM)	1	EA					
171		SPF-R-3 - SMOKE CONTROL/PRESSURIZATION FAN - MANUF: GREENHECK - MODEL: AX, (15400 CFM)	1	EA					
172		OAU-R-3 - OUTSIDE AIR UNIT - MANUF: AAON - MODEL: RN, (6000 CFM)	1	EA					
173		OAU-R-4 - OUTSIDE AIR UNIT - MANUF: AAON - MODEL: RN, (6000 CFM)	1	EA					
174		OAU-R-5 - OUTSIDE AIR UNIT - MANUF: AAON - MODEL: RN, (8000 CFM)	1	EA					
175		F - (24"X24") - 35DEG FIXED BLADE RETURN GRILLE - MANUF: TITUS - MODEL: 350RL, (2200 CFM) (ASSUMED)	21	EA					
176		THERMOSTAT	47	EA					
177		COMBINATION FIRE SMOKE DAMPER	132	EA					
178		DUCT SMOKE DETECTOR	132	EA					
179		TAKEOFF OR SPIN-IN FITTING	64	EA					
180		METAL DRAW BANDS	128	EA					
181		Sealant UL-181	1515	GAL					
182		1X2X1 CHANNEL	720	EA					
183		(1.5") DUCT HANGER STRAP	2880	LF					
184		Galvanized sheet metal duct w/ Wrap equal to owners corning fiberglass w/ FRK vapor barrier. Insulation shall be R-6 except on roof shall be R-8.							
185		(10"X8") METAL DUCT. (680 LF)	1840	LB					
186		(12"X8") METAL DUCT. (157 LF)	473	LB					
187		(12"X12") METAL DUCT. (80 LF)	290	LB					
188		(14"X8") METAL DUCT. (1491 LF)	6295	LB					
189		(16"X14") METAL DUCT. (30 LF)	173	LB					
190		(16"X8") METAL DUCT. (13 LF)	59	LB					
191		(18"X8") METAL DUCT. (175 LF)	874	LB					
192		(20"X20") METAL DUCT. (166 LF)	1272	LB					
193		(20"X18") METAL DUCT. (210 LF)	1534	LB					
194		(24"X24") METAL DUCT W/ 2HR WRAP. (30 LF)	278	LB					
195		(24"X12") METAL DUCT. (725 LF)	5016	LB					
196		(28"X16") METAL DUCT. (80 LF)	677	LB					
197		(30"X28") METAL DUCT W/ 2HR WRAP. (30 LF)	335	LB					
198		(32"X20") METAL DUCT. (30 LF)	300	LB					
199		(36"X20") METAL DUCT. (146 LF)	1914	LB					
200		(38"X22") METAL DUCT. (91 LF)	1272	LB					
201		(40"X24") METAL DUCT. (303 LF)	4542	LB					
202		(42"X30") METAL DUCT. (250 LF)	4218	LB					
203		(42"X22") METAL DUCT. (230 LF)	3450	LB					
204		(44"X30") METAL DUCT. (239 LF)	4876	LB					
205		(60"X16") METAL DUCT W/ 2HR WRAP. (60 LF)	1258	LB					
206		(6"X8") METAL DUCT. (363 LF)	763	LB					
207		(8"X8") METAL DUCT. (1108 LF)	2650	LB					
208		TOTAL WEIGHT (LBS) :	44359	LBS					
209		ROUND DUCT							
210		(38" DIA) ROUND DUCT. (8 LF)	105	LB					
211		(6" DIA) ROUND DUCT. (1726 LF)	2455	LB					
212		(8" DIA) ROUND DUCT. (348 LF)	653	LB					
213		TOTAL WEIGHT (LBS) :	3213	LBS					
214		FLEXIBLE ROUND DUCT							
215		(6" DIA) FLEXIBLE DUCT. (44 LF)	62	LB					
216		(8" DIA) FLEXIBLE DUCT. (59 LF)	111	LB					
217		TOTAL WEIGHT (LBS) :	173	LBS					
218		FITTINGS							
219		(36"X20") 90DeG ELBOW	2	EA					
220		(38"X22") 90DeG ELBOW	2	EA					
221		(10" X 8") X (6" DIA) REDUCING DUCT TRANSITION	49	EA					
222		(10" X 8") X (8" DIA) REDUCING DUCT TRANSITION	3	EA					
223		(12" X 8") X (6" DIA) REDUCING DUCT TRANSITION	7	EA					
224		(12" X 8") X (8" DIA) REDUCING DUCT TRANSITION	1	EA					
225		(12" X 8") X (8" X 8") REDUCING DUCT TRANSITION	1	EA					
226		(14" X 8") X (10" X 8") REDUCING DUCT TRANSITION	10	EA					
227		(14" X 8") X (6" DIA) REDUCING DUCT TRANSITION	128	EA					
228		(14" X 8") X (8" DIA) REDUCING DUCT TRANSITION	16	EA					
229		(14" X 8") X (8" X 8") REDUCING DUCT TRANSITION	42	EA					
230		(16" X 8") X (10"X8") REDUCING DUCT TRANSITION	2	EA					
231		(16" X 8") X (12" X 8") REDUCING DUCT TRANSITION	1	EA					
232		(16" X 8") X (6" DIA) REDUCING DUCT TRANSITION	1	EA					
233		(16" X 8") X (6" X 8") REDUCING DUCT TRANSITION	1	EA					
234		(16"X8") 90 DEGREE ELBOW	1	EA					
235		(18" X 8") X (10" X 8") REDUCING DUCT TRANSITION	1	EA					

	QTY	DESCRIPTION	REV	DATE	LABOR	TOTAL MAN	MATERIAL	EQUIPMENT	COMPOSITE	TOTAL COST
232		(18" X 8") X (14" X 8") REDUCING DUCT TRANSITION	16	EA						
233		(18" X 8") X (6" DIA) REDUCING DUCT TRANSITION	16	EA						
234		(18" X 8") X (6" X 8") REDUCING DUCT TRANSITION	17	EA						
235		(18"X8") 90 DEGREE ELBOW	17	EA						
236		(20"X20") 90 DEGREE ELBOW	5	EA						
237		(24"X12") 90 DEGREE ELBOW	22	EA						
238		(40"X24") 90 DEGREE ELBOW	3	EA						
239		(42" X 30") X (38" DIA) REDUCING DUCT TRANSITION	2	EA						
240		(42"X30") 90 DEGREE ELBOW	1	EA						
241		(6" DIA) 90 DEGREE ELBOW	26	EA						
242		(6" DIA) REDUCING DUCT TRANSITION	4	EA						
243		(6" DIA) REDUCING DUCT TRANSITION	7	EA						
244		(6" X 8") X (6" DIA) REDUCING DUCT TRANSITION	56	EA						
245		(8" DIA) 90 DEGREE ELBOW	110	EA						
246		(8" DIA) REDUCING DUCT TRANSITION	27	EA						
247		(8" X 8") X (6" DIA) REDUCING DUCT TRANSITION	131	EA						
248		(8" X 8") X (8" DIA) REDUCING DUCT TRANSITION	25	EA						
249		(8"X8") 90 DEGREE ELBOW	1	EA						
250		OTHERS								
251		(24"X24") METAL DUCT W/ 2HR WRAP. (30 LF)	240	SF						
252		(30"X28") METAL DUCT W/ 2HR WRAP. (30 LF)	290	SF						
		(60"X16") METAL DUCT W/ 2HR WRAP. (60 LF)	380	SF						
		Subtotal								
		UNITS								
253		(4" DIA) DRYER EXHAUST VENT W/ BIRD SCREEN	385	EA						
254		(6" DIA) KITCHEN EXHAUST VENT W/ BIRD SCREEN	385	EA						
255		A - (14"X6") - SUPPLY AIR DIFFUSER - MANUF: AIRMATE - MODEL: 100	1520	EA						
256		AHU-A - AIR HANDLING UNIT - MANUF: CARRIER - MODEL: FMA4X, (585 CFM)	292	EA						
257		AHU-A - AIR HANDLING UNIT - MANUF: CARRIER - MODEL: FMA4X, (790 CFM)	93	EA						
258		HEAT PUMP - MANUF:CARRIER - MODEL: GHS5S018	292	EA						
259		HEAT PUMP - MANUF:CARRIER - MODEL: GHS5S024	93	EA						
260		B - (8"X4") - SUPPLY AIR DIFFUSER - MANUF: AIRMATE - MODEL: A100	793	EA						
261		C - (30"X10") - RETURN AIR GRILLE - MANUF: AIRMATE - MODEL: 170	385	EA						
262		D - (18"X10") - FILTER RETURN AIR GRILLE - MANUF: AIRMATE - MODEL: 170FF	385	EA						
263		EF-A - EXHAUST FAN - MANUF: GREENHECK - MODEL: SP-A50-90-VG, (50 CFM)	478	EA						
264		EF-B - EXHAUST FAN - MANUF: GREENHECK - MODEL: LP50100DC, (100 CFM)	385	EA						
265		MANUAL VOLUME DAMPER	863	EA						
266		T - THERMOSTAT	385	EA						
267		TAKEOFF OR SPIN-IN FITTING	391	EA						
268		METAL DRAW BANDS	2782	EA						
269		Sealant UL-181	10273	GAL						
270		1X2X1 CHANNEL	4870	EA						
271		(1.5") DUCT HANGER STRAP	19480	LF						
		Galvanized sheet metal duct w/ Wrap equal to owners								
		corning fiberglass w/ FRK vapor barrier. Insulation shall								
		be R-6 except on roof shall be R-8.								
272		(10"X8") METAL DUCT. (2216 LF)	5994	LB						
273		(14"X6") METAL DUCT. (1571 LF)	6052	LB						
274		(16"X8") METAL DUCT. (3312 LF)	15238	LB						
275		(20"X8") METAL DUCT. (3208 LF)	1757	LB						
276		(24"X8") METAL DUCT. (255 LF)	1570	LB						
277		(8"X8") METAL DUCT. (787 LF)	1881	LB						
278		TOTAL WEIGHT (LBS) :	32462	LBS						
		ROUND DUCT								
279		(4" DIA) ROUND DUCT. (16555 LF)	15542	LB						
280		(6" DIA) ROUND DUCT. (14654 LF)	20843	LB						
281		(8" DIA) ROUND DUCT. (126 LF)	237	LB						
282		TOTAL WEIGHT (LBS) :	36622	LBS						
		FLEXIBLE ROUND DUCT								
283		(4" DIA) FLEXIBLE DUCT. (3003 LF)	2820	LB						
284		(8" DIA) FLEXIBLE DUCT. (2945 LF)	5530	LB						
285		(6" DIA) FLEXIBLE DUCT. (2382 LF)	3389	LB						
286		TOTAL WEIGHT (LBS) :	11739	LBS						
		FITTINGS								
287		(10" X 8") X (14" X 6") REDUCING DUCT TRANSITION	232	EA						
288		(14" X 6") X (10" X 8") REDUCING DUCT TRANSITION	232	EA						
289		(14" X 6") X (8" X 8") REDUCING DUCT TRANSITION	60	EA						
290		(16" X 8") X (10" X 8") REDUCING DUCT TRANSITION	232	EA						
291		(16" X 8") X (14" X 6") REDUCING DUCT TRANSITION	232	EA						
292		(16" X 8") X (4" DIA) REDUCING DUCT TRANSITION	60	EA						
293		(16" X 8") X (6" DIA) REDUCING DUCT TRANSITION	464	EA						
294		(16" X 8") X (8" DIA) REDUCING DUCT TRANSITION	120	EA						
295		(16" X 8") X (8" X 8") REDUCING DUCT TRANSITION	60	EA						
296		(16"X8") 90 DEGREE ELBOW	180	EA						
297		(20" X 8") X (4" DIA) REDUCING DUCT TRANSITION	249	EA						
298		(20" X 8") X (8" DIA) REDUCING DUCT TRANSITION	166	EA						
299		(20"X8") 45 DEGREE ELBOW	166	EA						
300		(24" X 8") X (4" DIA) REDUCING DUCT TRANSITION	20	EA						
301		(24" X 8") X (6" DIA) REDUCING DUCT TRANSITION	10	EA						
302		(24" X 8") X (8" DIA) REDUCING DUCT TRANSITION	70	EA						
303		(24"X8") 90 DEGREE ELBOW	10	EA						
304		(4" DIA) 45 DEGREE ELBOW	696	EA						
305		(4" DIA) 90 DEGREE ELBOW	505	EA						
306		(4" DIA) REDUCING DUCT TRANSITION	803	EA						
307		(6" DIA) 45 DEGREE ELBOW	464	EA						
308		(6" DIA) 90 DEGREE ELBOW	375	EA						
309		(6" DIA) X (4" DIA) REDUCING DUCT TRANSITION	700	EA						
310		(8"X8") 90 DEGREE ELBOW	120	EA						
311		TOTAL WEIGHT RESIDENTIAL TOWERL (LBS) :	108280	LBS						
		Subtotal								
		RUSBUS TRANSIT STATION								
		LEVEL #1								
312		EF-1-1 - EXHAUST FAN - MANUF: GREENHECK - MODEL: QEI, (25000 CFM)	1	EA						
313		EF-1-2 - EXHAUST FAN - MANUF: GREENHECK - MODEL: BSQ, (4300 CFM)	1	EA						
314		H - (30"X18") - 35DEG FIXED BLADE EXHAUST REGISTER - MANUF: TITUS - MODEL: 350FL, (2150 CFM)	16	EA						
315		EPH-T-1 - ELECTRIC HEATER - MANUF: RAYWALL - MODEL: AFA	1	EA						
316		EF-1-3 - EXHAUST FAN - MANUF: GREENHECK - MODEL: BSQ, (4300 CFM)	1	EA						
317		EF-1-4 - EXHAUST FAN - MANUF: GREENHECK - MODEL: BSQ, (4300 CFM)	1	EA						
318		EF-1-5 - EXHAUST FAN - MANUF: GREENHECK - MODEL: BSQ, (4300 CFM)	1	EA						
319		EF-1-6 - EXHAUST FAN - MANUF: GREENHECK - MODEL: BSQ, (4300 CFM)	1	EA						
320		EF-1-7 - EXHAUST FAN - MANUF: GREENHECK - MODEL: BSQ, (4300 CFM)	1	EA						

SL	PMO #	DETAIL #	PCMO	DESCRIPTION	QTY	UNIT	LABOR			TOTAL MAN	MATERIAL	EQUIPMENT	COMPOSITE	TOTAL COST
321	M-241-NE To M-341			EF-1-8 - EXHAUST FAN - MANUF: GREENHECK - MODEL: BSQ, (4300 CFM)	1	EA								
322				EF-1-9 - EXHAUST FAN - MANUF: GREENHECK - MODEL: BSQ, (4300 CFM)	1	EA								
323				FCU-T-1 - FAN COIL UNIT - MANUF: DAIKIN - MODEL: FXMQ, (1000 CFM)	1	EA								
324				FCU-1-1-1 - FAN COIL UNIT - MANUF: DAIKIN - MODEL: FXMQ, (1000 CFM)	2	EA								
325				OAF-1-1 - OUTSIDE AIR FAN - MANUF: GREENHECK - MODEL: QEI, (31000 CFM)	1	EA								
326				CF-1-1 - CIRCULATION FAN - MANUF: GREENHECK - MODEL: AX, (20000 CFM)	1	EA								
327				CF-1-2 - CIRCULATION FAN - MANUF: GREENHECK - MODEL: AX, (20000 CFM)	1	EA								
328				FCU-1-1-2 - FAN COIL UNIT - MANUF: DAIKIN - MODEL: FXMQ, (1000 CFM)	1	EA								
329				FCU-1-1-3 - FAN COIL UNIT - MANUF: DAIKIN - MODEL: FXMQ, (1000 CFM)	1	EA								
330				EF-1-10 - EXHAUST FAN - MANUF: GREENHECK - MODEL: SP, (75 CFM)	1	EA								
331				EF-1-12 - EXHAUST FAN - MANUF: GREENHECK - MODEL: SP, (75 CFM)	1	EA								
332				EF-1-11 - EXHAUST FAN - MANUF: GREENHECK - MODEL: SP, (75 CFM)	1	EA								
333				EF-1-13 - EXHAUST FAN - MANUF: GREENHECK - MODEL: SP, (75 CFM)	1	EA								
334				DFH-T-2 - DUCTLESS SPLIT SYSTEM - MANUF: MITSUBISHI - MODEL: PKA, (375 CFM)	1	EA								
335				FCU-1-1-5 - FAN COIL UNIT - MANUF: DAIKIN - MODEL: FXMQ, (635 CFM)	1	EA								
336				FCU-1-M-1 - FAN COIL UNIT - MANUF: DAIKIN - MODEL: FXMQ, (635 CFM)	1	EA								
337				OAF-1-2 - OUTSIDE AIR FAN - MANUF: GREENHECK - MODEL: QEI, (2600 CFM)	1	EA								
338				LOUVER (5 SF FACE)	8	EA								
339				LOUVER (65 SF FACE)	4	EA								
340				EF-1-2 - EXHAUST FAN - MANUF: GREENHECK - MODEL: BSQ, (4300 CFM)	1	EA								
341				EXHAUST LOUVER (7 SF FACE)	2	EA								
342				(4'L) LINEAR SLOT DIFFUSER - ML-39	75	EA								
343				DFH-T-2 - DUCTLESS SPLIT SYSTEM - MANUF: MITSUBISHI - MODEL: PKA, (375 CFM) (ASSUMED)	1	EA								
344				BALANCING MANUAL DAMPER TO 6250 CFM	4	EA								
345				THERMOSTAT	7	EA								
346				TAKEOFF OR SPIN-IN FITTING	75	EA								
347				METAL DRAW BANDS	150	EA								
348				Sealant UL-181	320	GAL								
349				1X2X1 CHANNEL	263	EA								
350				(1.5") DUCT HANGER STRAP	1052	LF								
	M-241-NE To M-341			Galvanized sheet metal duct w/ Wrap equal to ownes corner fiberglass w/ FRK vapor barrier. Insulation shall be R-6 except on roof shall be R-8.										
351				(10"X10") METAL DUCT, (52 LF)	158	LB								
352				(20"X18") METAL DUCT, (163 LF)	1188	LB								
353				(22"X22") METAL DUCT, (28 LF)	238	LB								
354				(28"X18") METAL DUCT, (650 LF)	7528	LB								
355				(40"X18") METAL DUCT, (60 LF)	700	LB								
356				(40"X28") METAL DUCT, (27 LF)	436	LB								
357				(44"X44") METAL DUCT, (30 LF)	725	LB								
358				(60"X30") METAL DUCT, (22 LF)	475	LB								
359				(60"X46") METAL DUCT, (11 LF)	280	LB								
360				(60"X50") METAL DUCT, (18 LF)	502	LB								
361				(66"X30") METAL DUCT, (85 LF)	2932	LB								
362				(70"X20") METAL DUCT, (373 LF)	12046	LB								
363				(70"X34") METAL DUCT, (24 LF)	877	LB								
364				TOTAL WEIGHT (LBS) :	28085	LBS								
				ROUND DUCT										
365				(12"Dia) ROUND DUCT, (123 LF)	351	LB								
366				(8"Dia) ROUND DUCT, (61 LF)	114	LB								
367				(8"Dia) ROUND DUCT, (29 LF)	42	LB								
368				TOTAL WEIGHT (LBS) :	507	LBS								
				FLEXIBLE ROUND DUCT										
369				(12"Dia) FLEXIBLE ROUND DUCT, (168 LF)	477	LB								
370				TOTAL WEIGHT (LBS) :	477	LBS								
	M-241-NE To M-341			FITTINGS										
371				(10" X 10") X (6" DIA) REDUCING DUCT TRANSITION	6	EA								
372				(10"X10") 90 DEGREE ELBOW	2	EA								
373				(12" DIA) REDUCING DUCT TRANSITION	13	EA								
374				(20" X 18") REDUCING DUCT TRANSITION	2	EA								
375				(20" X 18") X (10" X 10") REDUCING DUCT TRANSITION	1	EA								
376				(20" X 18") X (12" DIA) REDUCING DUCT TRANSITION	13	EA								
377				(20" X 18") X (8" DIA) REDUCING DUCT TRANSITION	6	EA								
378				(20"X18") 45 DEGREE ELBOW	5	EA								
379				(20"X18") 90 DEGREE ELBOW	1	EA								
380				(22"X22") 45 DEGREE ELBOW	3	EA								
381				(22"X40") 90 DEGREE ELBOW	1	EA								
382				(28"X18") 45 DEGREE ELBOW	12	EA								
383				(28"X18") 90 DEGREE ELBOW	12	EA								
384				(40" X 28") X (40" X 18") REDUCING DUCT TRANSITION	1	EA								
385				(40"X18") 90 DEGREE ELBOW	1	EA								
386				(44"X44") 45 DEGREE ELBOW	1	EA								
387				(44"X44") 90 DEGREE ELBOW	1	EA								
388				(50" X 30") X (40" X 28") REDUCING DUCT TRANSITION	1	EA								
389				(50"X50") 45 DEGREE ELBOW	3	EA								
390				(66"X30") 45 DEGREE ELBOW	3	EA								
391				(70" X 20") X (12" DIA) REDUCING DUCT TRANSITION	62	EA								
392				(70" X 34") X (70" X 20") REDUCING DUCT TRANSITION	1	EA								
393				(70"X20") 45 DEGREE ELBOW	2	EA								
394				(70"X20") 90 DEGREE ELBOW	1	EA								
395				(8" DIA) 90 DEGREE ELBOW	5	EA								
396				TOTAL WEIGHT TRANSIT STATION (LBS) :	29069	LBS								
				Subtotal										
				PARKING										
397				(PARKING TRANSIT) - DHP-T-1 - DUCTLESS HEAT PUMP - MANUF: MITSUBISHI - MODEL: PUZ	1	EA								
398				(PARKING TRANSIT) - DHP-T-2 - DUCTLESS HEAT PUMP - MANUF: MITSUBISHI - MODEL: PUZ	1	EA								
399				(PARKING TRANSIT) - VHR-1-1 - VARIABLE REFRIGERANT FLOW OUTDOOR UNIT - MANUF: DAIKIN - MODEL: REYQ, (R-410A)	1	EA								
				Subtotal										
400				PIPING, (ASSUMED NOT SHOWN ON PLAN)										
401				(2") CWR	1670	LF								
402				(2") CWS	1670	LF								
403				(1-1/2") CWR	1600	LF								
404				(1-1/2") CWS	1600	LF								
				(1-1/4") CWR	1120	LF								

