

Project Name:														
Item	System	Qty./Length	Material	Size	Cost/Ea.	Total Cost	Hrs./Ea.	Total Hrs.	Per Hour Wage	Labour Cost Each	Material Cost Each	Unit Cost	Total Labour Cost	Total Material Cost
EXISTING CONDITIONS														
DEMOLITION														
Pipe W/ Fitting	Existing Pipe W/ Fittings To Be Removed	51.68			\$2.02	\$104.19	0.028	1.44704	\$72.00	\$2.02	\$0.00	\$2.02	\$104.19	\$0.00
	Existing Electric Heaters, Exhaust Fan, Thermostats And All Associated Duct Work To Be Removed Area: 915 SF	1			\$800.00	\$800.00	0		\$72.00	\$800.00	\$0.00	\$800.00	\$800.00	\$0.00
	Removed All Ductwork And Air Devices In This Area: 3747 SF	1			\$2,000.00	\$2,000.00	0		\$72.00	\$2,000.00	\$0.00	\$2,000.00	\$2,000.00	\$0.00
	Existing Abandoned Air Handler And Ductwork To Be Removed Area: 915 SF	1			\$400.00	\$400.00	0		\$72.00	\$400.00	\$0.00	\$400.00	\$400.00	\$0.00
	Existing Thermostat To Be Removed	2			\$18.00	\$36.00	0.250	0.5	\$72.00	\$18.00	\$0.00	\$18.00	\$36.00	\$0.00
	Existing Unit Heater, Thermostat And Vent Through Roof To Be Removed	2			\$72.00	\$144.00	1.000	2	\$72.00	\$72.00	\$0.00	\$72.00	\$144.00	\$0.00
	Existing Thermostat To Be Removed	1			\$15.84	\$15.84	0.220	0.22	\$72.00	\$15.84	\$0.00	\$15.84	\$15.84	\$0.00
	Existing Roof Top Unit To Be Removed	1			\$108.00	\$108.00	1.500	1.5	\$72.00	\$108.00	\$0.00	\$108.00	\$108.00	\$0.00
	Existing Condensing Unit And Refrigerant Piping Back To Associated Evaporator Coil To Be Removed	1			\$133.20	\$133.20	1.850	1.85	\$72.00	\$133.20	\$0.00	\$133.20	\$133.20	\$0.00
	Existing Electric Heater And Thermostat To Be Removed	1			\$61.20	\$61.20	0.850	0.85	\$72.00	\$61.20	\$0.00	\$61.20	\$61.20	\$0.00
	Existing PTAC To Be Removed	1			\$104.40	\$104.40	1.450	1.45	\$72.00	\$104.40	\$0.00	\$104.40	\$104.40	\$0.00
	Existing Furnace, Evaporator Coil And Associated Ductwork To Be Removed	1			\$216.00	\$216.00	3.000	3	\$72.00	\$216.00	\$0.00	\$216.00	\$216.00	\$0.00
	Existing All Plumbing Fixtures Including Piping And Associated Fittings To Be Removed Area: 1089 SF	1			\$2,500.00	\$2,500.00	0		\$72.00	\$2,500.00	\$0.00	\$2,500.00	\$2,500.00	\$0.00
Pipe W/ Fitting	Existing Pipe With The Fittings To Be Removed	73.87			\$2.02	\$148.92	0.028	2.06836	\$72.00	\$2.02	\$0.00	\$2.02	\$148.92	\$0.00
Pipe W/ Fitting	Existing Pipes With The Fitting To Be Removed	24.41			\$2.02	\$49.21	0.028	0.68348	\$72.00	\$2.02	\$0.00	\$2.02	\$49.21	\$0.00
	Existing All Piping And Associate Fittings To Be Removed	1			\$12,000.00	\$12,000.00	0		\$72.00	\$12,000.00	\$0.00	\$12,000.00	\$12,000.00	\$0.00
	Remove Disconnected WH And Plumbing Fixtures	1			\$108.00	\$108.00	1.500	1.5	\$72.00	\$108.00	\$0.00	\$108.00	\$108.00	\$0.00
	Existing Hose Heel To Be Removed	1			\$61.20	\$61.20	0.850	0.85	\$72.00	\$61.20	\$0.00	\$61.20	\$61.20	\$0.00
	Existing Cap To Be Removed	1			\$14.40	\$14.40	0.200	0.2	\$72.00	\$14.40	\$0.00	\$14.40	\$14.40	\$0.00
RELOCATION														
	Existing Unit Heater To Be Relocate	1			\$180.00	\$180.00	2.500	2.5	\$72.00	\$180.00	\$0.00	\$180.00	\$180.00	\$0.00
	Existing Ice Maker To Be Relocate	1			\$86.40	\$86.40	1.200	1.2	\$72.00	\$86.40	\$0.00	\$86.40	\$86.40	\$0.00
	Existing Water Heater And Beneath Sink To Be Relocate	1			\$252.00	\$252.00	3.500	3.5	\$72.00	\$252.00	\$0.00	\$252.00	\$252.00	\$0.00
SITE WORK														
WASTE PIPE (BELOW GRADE)														
Pipe	Waste Pipe	88		4"	\$12.92	\$1,141.87	0.070	6.1866	\$72.00	\$5.04	\$7.88	\$12.92	\$445.44	\$696.43
WASTE PIPE FITTINGS														
90 Deg	Waste Pipe	2	Schedule 40 PVC	4"	\$54.98	\$109.96	0.450	0.9	\$72.00	\$32.40	\$22.58	\$54.98	\$64.80	\$45.16
45 Deg	Waste Pipe	1	Schedule 40 PVC	4"	\$52.90	\$52.90	0.450	0.45	\$72.00	\$32.40	\$20.50	\$52.90	\$32.40	\$20.50
Wye	Waste Pipe	1	Schedule 40 PVC	4"	\$62.63	\$62.63	0.495	0.495	\$72.00	\$35.64	\$26.99	\$62.63	\$35.64	\$26.99
PVC COUPLING														
Coupling	Coupling	8		4"	\$15.10	\$120.80	0.125	1	\$72.00	\$9.00	\$6.10	\$15.10	\$72.00	\$48.80
TRENCHING & BACKFILLING:														
	Excavation & Backfilling (3' Deep x 1' Wide Trench) Including All Labor	264			\$6.12	\$1,615.68	0.085	22.44	\$72.00	\$6.12	\$0.00	\$6.12	\$1,615.68	\$0.00
VENT PIPE (BELOW GRADE)														
Pipe	Vent Pipe	11		3"	\$8.30	\$91.26	0.058	0.638	\$72.00	\$4.18	\$4.12	\$8.30	\$45.94	\$45.32
VENT PIPE FITTINGS														
90 Deg	Vent Pipe	2	Schedule 40 PVC	3"	\$44.46	\$88.92	0.400	0.8	\$72.00	\$28.80	\$15.66	\$44.46	\$57.60	\$31.32
PVC COUPLING														
Coupling	Coupling	1		3"	\$11.94	\$11.94	0.098	0.098	\$72.00	\$7.06	\$4.88	\$11.94	\$7.06	\$4.88
TRENCHING & BACKFILLING:														
	Excavation & Backfilling (3' Deep x 1' Wide Trench) Including All Labor	33			\$6.12	\$201.96	0.085	2.805	\$72.00	\$6.12	\$0.00	\$6.12	\$201.96	\$0.00
MISCELLANEOUS														
Oil Water Separator	EQ	1	Oil Water Separator		\$4,584.80	\$4,584.80	4.650	4.65	\$72.00	\$334.80	\$4,250.00	\$4,584.80	\$334.80	\$4,250.00
PLUMBING														
FLOOR WORK														
COLD WATER PIPE (ABOVE GRADE)														
Pipe	Cold Water Pipe	186	Type "L" Copper Pipe	1/2"	\$6.43	\$1,199.75	0.032	5.96704	\$72.00	\$2.30	\$4.13	\$6.43	\$429.63	\$770.12
Pipe	Cold Water Pipe	118	Type "L" Copper Pipe	3/4"	\$7.03	\$831.93	0.035	4.1419	\$72.00	\$2.52	\$4.51	\$7.03	\$298.22	\$533.71
Pipe	Cold Water Pipe	32	Type "L" Copper Pipe	1"	\$7.92	\$252.44	0.038	1.21182	\$72.00	\$2.74	\$5.18	\$7.92	\$87.25	\$165.19
Pipe	Cold Water Pipe	45	Type "L" Copper Pipe	1-1/4"	\$10.28	\$467.82	0.042	1.91058	\$72.00	\$3.02	\$7.26	\$10.28	\$137.56	\$330.26
Pipe	Cold Water Pipe	36	Type "L" Copper Pipe	1-1/2"	\$12.29	\$445.83	0.046	1.66842	\$72.00	\$3.31	\$8.98	\$12.29	\$120.13	\$325.70
Pipe	Cold Water Pipe	113	Type "L" Copper Pipe	2"	\$19.50	\$2,207.92	0.053	6.00225	\$72.00	\$3.82	\$15.68	\$19.50	\$432.16	\$1,775.76
COLD WATER PIPE INSULATION														
Pipe Insulation	Cold Water Pipe	186	1/2" Thick Fiberglass Insulation, With ASJ Jacket On Fiberglass	1/2"	\$3.43	\$640.34	0.022	4.10234	\$72.00	\$1.58	\$1.85	\$3.43	\$295.37	\$344.97
Pipe Insulation	Cold Water Pipe	118	1/2" Thick Fiberglass Insulation, With ASJ Jacket On Fiberglass	3/4"	\$3.43	\$406.38	0.022	2.60348	\$72.00	\$1.58	\$1.85	\$3.43	\$187.45	\$218.93
Pipe Insulation	Cold Water Pipe	32	1/2" Thick Fiberglass Insulation, With ASJ Jacket On Fiberglass	1"	\$3.43	\$109.51	0.022	0.70158	\$72.00	\$1.58	\$1.85	\$3.43	\$50.51	\$59.00
Pipe Insulation	Cold Water Pipe	45	1/2" Thick Fiberglass Insulation, With ASJ Jacket On Fiberglass	1-1/4"	\$3.43	\$156.21	0.022	1.00078	\$72.00	\$1.58	\$1.85	\$3.43	\$72.06	\$84.16
Pipe Insulation	Cold Water Pipe	36	1/2" Thick Fiberglass Insulation, With ASJ Jacket On Fiberglass	1-1/2"	\$3.43	\$124.55	0.022	0.79794	\$72.00	\$1.58	\$1.85	\$3.43	\$57.45	\$67.10
Pipe Insulation	Cold Water Pipe	113	1/2" Thick Fiberglass Insulation, With ASJ Jacket On Fiberglass	2"	\$3.43	\$388.90	0.022	2.4915	\$72.00	\$1.58	\$1.85	\$3.43	\$179.39	\$209.51
COLD WATER PIPE FITTINGS														
90 Deg	Cold Water Pipe	39	Type "L" Copper Pipe	1/2"	\$28.15	\$1,097.85	0.350	13.65	\$72.00	\$25.20	\$2.95	\$28.15	\$982.80	\$115.05
90 Deg	Cold Water Pipe	29	Type "L" Copper Pipe	3/4"	\$34.91	\$1,012.39	0.380	11.02	\$72.00	\$27.36	\$7.55	\$34.91	\$793.44	\$218.95
90 Deg	Cold Water Pipe	13	Type "L" Copper Pipe	1-1/4"	\$57.52	\$747.76	0.410	5.33	\$72.00	\$29.52	\$28.00	\$57.52	\$383.76	\$364.00
90 Deg	Cold Water Pipe	1	Type "L" Copper Pipe	1-1/2"	\$67.24	\$67.24	0.420	0.42	\$72.00	\$30.24	\$37.00	\$67.24	\$30.24	\$37.00
90 Deg	Cold Water Pipe	3	Type "L" Copper Pipe	2"	\$97.68	\$293.04	0.440	1.32	\$72.00	\$31.68	\$66.00	\$97.68	\$95.04	\$198.00
Tee	Cold Water Pipe	9	Type "L" Copper Pipe	1/2"	\$41.49	\$373.41	0.550	4.95	\$72.00	\$39.60	\$1.89	\$41.49	\$356.40	\$17.01
Tee	Cold Water Pipe	1	Type "L" Copper Pipe	3/4"	\$53.66	\$53.66	0.580	0.58	\$72.00	\$41.76	\$11.90	\$53.66	\$41.76	\$11.90
Tee	Cold Water Pipe	1	Type "L" Copper Pipe	1-1/2"	\$166.24	\$166.24	0.670	0.67	\$72.00	\$48.24	\$118.00	\$166.24	\$48.24	\$118.00
Tee	Cold Water Pipe	1	Type "L" Copper Pipe	3/4" / 1/2"	\$63.23	\$63.23	0.622	0.622	\$72.00	\$44.78	\$18.45	\$63.23	\$44.78	\$18.45
Tee	Cold Water Pipe	5	Type "L" Copper Pipe	1" / 3/4"	\$145.51	\$727.53	0.698	3.49	\$72.00	\$50.26	\$95.25	\$145.51	\$251.28	\$476.25
Tee	Cold Water Pipe	1	Type "L" Copper Pipe	1-1/4" / 1/2"	\$164.48	\$164.48	0.722	0.722	\$72.00	\$51.98	\$112.50	\$164.48	\$51.98	\$112.50
Tee	Cold Water Pipe	1	Type "L" Copper Pipe	1-1/4" / 1"	\$179.00	\$179.00	0.750	0.75	\$72.00	\$54.00	\$125.00	\$179.00	\$54.00	\$125.00
Tee	Cold Water Pipe	2	Type "L" Copper Pipe	1-1/2" / 1/2"	\$173.42	\$346.84	0.735	1.47	\$72.00	\$52.92	\$120.50	\$173.42	\$105.84	\$241.00
Tee	Cold Water Pipe	3	Type "L" Copper Pipe	1-1/2" / 1-1/4"	\$187.08	\$561.24	0.765	2.295	\$72.00	\$55.08	\$132.00	\$187.08	\$165.24	\$396.00
Tee	Cold Water Pipe	1	Type "L" Copper Pipe	2" / 1-1/2"	\$188.40	\$188.40	0.700	0.7	\$72.00	\$50.40	\$138.00	\$188.40	\$50.40	\$138.00
Tee	Cold Water Pipe	4	Type "L" Copper Pipe	2" / 3/4"	\$201.48	\$805.92	0.715	2.86	\$72.00	\$51.48	\$150.00	\$201.48	\$205.92	\$600.00
Reducer	Cold Water Pipe	2	Type "L" Copper Pipe	3/4" / 1/2"	\$39.19	\$78.37	0.288	0.576	\$72.00	\$20.74	\$18.45	\$39.19	\$41.47	\$36.90
Reducer	Cold Water Pipe	1	Type "L" Copper Pipe	1" / 3/4"	\$112.33	\$112.33	0.315	0.315	\$72.00	\$22.68	\$89.65	\$112.33	\$22.68	\$89.65
Reducer	Cold Water Pipe	1	Type "L" Copper Pipe	1-1/4" / 3/4"	\$115.04	\$115.04	0.320	0.32	\$72.00	\$23.04	\$92.00	\$115.04	\$23.04	\$92.00
Reducer	Cold Water Pipe	1	Type "L" Copper Pipe	1-1/2" / 1-1/4"	\$177.36	\$177.36	0.380	0.38	\$72.00	\$27.36	\$150.00	\$177.36	\$27.36	\$150.00
Reducer	Cold Water Pipe	1	Type "L" Copper Pipe	2" / 1-1/4"	\$193.08	\$193.08	0.390	0.39	\$72.00	\$28.08	\$165.00	\$193.08	\$28.08	\$165.00
Reducer	Cold Water Pipe	1	Type "L" Copper Pipe	2" / 1-1/2"	\$200.80	\$200.80	0.400	0.4	\$72.00	\$28.80	\$172.00	\$200.80	\$28.80	\$172.00
Cap	EQ	2	Pipe End Cap	3/4"	\$10.99	\$21.97	0.128	0.256	\$72.00	\$9.22	\$1.77	\$10.99	\$18.43	\$3.54
Valve	EQ	2	Isolation Valve	3/4"	\$72.40	\$144.79	0.458	0.916	\$72.00	\$32.98	\$39.42	\$72.40	\$65.95	\$78.84
Valve	EQ	2	Isolation Valve	2"	\$95.08	\$190.16	0.675	1.35	\$72.00	\$48.60	\$46.48	\$95.08	\$97.20	\$92.96
PIPE SUPPORTS														
Pipe Supports	Adjustable Clevis Hanger	31	Steel	1/2"	\$5.35	\$165.97	0.062	1.922	\$72.00	\$4.46	\$0.89	\$5.35	\$138.38	\$27.59
Pipe Supports	Adjustable Clevis Hanger	19	Steel	3/4"	\$5.58	\$106.02	0.065	1.235	\$72.00	\$4.68	\$0.90	\$5.58	\$88.92	\$17.10

Wye	Waste Pipe		6		3" / 2"	\$61.82	\$370.91	0.544	3.264	\$72.00	\$39.17	\$22.65	\$61.82	\$235.01	\$135.90
Wye	Waste Pipe		3		4" / 2"	\$86.84	\$260.52	0.845	2.535	\$72.00	\$60.84	\$26.00	\$86.84	\$182.52	\$78.00
Wye	Waste Pipe		2		4" / 3"	\$98.38	\$196.77	0.922	1.844	\$72.00	\$66.38	\$32.00	\$98.38	\$132.77	\$64.00
Reducer	Waste Pipe		2		3" / 2"	\$54.82	\$109.64	0.435	0.87	\$72.00	\$31.32	\$23.50	\$54.82	\$62.64	\$47.00
Reducer	Waste Pipe		1		4" / 3"	\$75.41	\$75.41	0.655	0.655	\$72.00	\$47.16	\$28.25	\$75.41	\$47.16	\$28.25
Cap	EQ		2	Pipe End Cap	2"	\$12.81	\$25.61	0.128	0.256	\$72.00	\$9.22	\$3.59	\$12.81	\$18.43	\$7.18
CO	EQ		5	Cleanout	2"	\$25.41	\$127.06	0.256	1.28	\$72.00	\$18.43	\$6.98	\$25.41	\$92.16	\$34.90
WCO	EQ		3	Wall Cleanout	3"	\$50.56	\$151.68	0.345	1.035	\$72.00	\$24.84	\$25.72	\$50.56	\$74.52	\$77.16
FD-1	EQ		2	Floor Drain	2"	\$58.74	\$117.47	0.388	0.776	\$72.00	\$27.94	\$30.80	\$58.74	\$55.87	\$61.60
PVC COUPLING															
Coupling	Coupling		11		2"	\$9.30	\$102.30	0.085	0.935	\$72.00	\$6.12	\$3.18	\$9.30	\$67.32	\$34.98
Coupling	Coupling		10	Schedule 40 PVC	3"	\$11.94	\$119.36	0.098	0.98	\$72.00	\$7.06	\$4.88	\$11.94	\$70.56	\$48.80
Coupling	Coupling		7		4"	\$15.10	\$105.70	0.125	0.875	\$72.00	\$9.00	\$6.10	\$15.10	\$63.00	\$42.70
TRENCHING & BACKFILLING:															
	Excavation & Backfilling (3' Deep x 1' Wide Trench) Including All Lat		891			\$6.12	\$5,452.92	0.085	75.735	\$72.00	\$6.12	\$0.00	\$6.12	\$5,452.92	\$0.00
WASTE PIPE (ABOVE GRADE)															
Pipe	Waste Pipe		17	Schedule 40 PVC	2"	\$8.71	\$148.14	0.062	1.054	\$72.00	\$4.46	\$4.25	\$8.71	\$75.89	\$72.25
WASTE PIPE FITTINGS															
Wye	Waste Pipe		1	Schedule 40 PVC	2" / 1-1/2"	\$53.54	\$53.54	0.488	0.488	\$72.00	\$35.14	\$18.40	\$53.54	\$35.14	\$18.40
Reducer	Waste Pipe		4		2" / 1-1/2"	\$39.45	\$157.80	0.385	1.54	\$72.00	\$27.72	\$11.73	\$39.45	\$110.88	\$46.92
PVC COUPLING															
Coupling	Coupling		1		2"	\$9.30	\$9.30	0.085	0.085	\$72.00	\$6.12	\$3.18	\$9.30	\$6.12	\$3.18
PIPE SUPPORTS															
Pipe Supports	Adjustable Clevis Hanger		1	Steel	2"	\$7.65	\$7.65	0.082	0.082	\$72.00	\$5.90	\$1.75	\$7.65	\$5.90	\$1.75
Pipe Supports	Threaded Rod		1		1/2"	\$8.89	\$8.89	0.100	0.1	\$72.00	\$7.20	\$1.69	\$8.89	\$7.20	\$1.69
GREASE WASTE (BELOW GRADE)															
Pipe	Grease Waste Pipe		2.21		1-1/2"	\$7.83	\$17.30	0.058	0.12818	\$72.00	\$4.18	\$3.65	\$7.83	\$9.23	\$8.07
Pipe	Grease Waste Pipe		40.41	Schedule 40 PVC	2"	\$8.71	\$352.13	0.062	2.50542	\$72.00	\$4.46	\$4.25	\$8.71	\$180.39	\$171.74
Pipe	Grease Waste Pipe		78.24		3"	\$10.56	\$826.21	0.065	5.0856	\$72.00	\$4.68	\$5.88	\$10.56	\$366.16	\$460.05
GREASE WASTE PIPE FITTINGS															
90 Deg	Grease Waste Pipe		6		2"	\$45.89	\$275.34	0.395	2.37	\$72.00	\$28.44	\$17.45	\$45.89	\$170.64	\$104.70
90 Deg	Grease Waste Pipe		4		3"	\$51.02	\$204.08	0.410	1.64	\$72.00	\$29.52	\$21.50	\$51.02	\$118.08	\$86.00
45 Deg	Grease Waste Pipe		4		2"	\$49.92	\$199.68	0.395	1.58	\$72.00	\$28.44	\$21.48	\$49.92	\$113.76	\$85.92
45 Deg	Grease Waste Pipe		8		3"	\$58.02	\$464.16	0.410	3.28	\$72.00	\$29.52	\$28.50	\$58.02	\$236.16	\$228.00
Wye	Grease Waste Pipe		2		2"	\$62.08	\$124.16	0.515	1.03	\$72.00	\$37.08	\$25.00	\$62.08	\$74.16	\$50.00
Wye	Grease Waste Pipe		6	Schedule 40 PVC	3" / 1-1/2"	\$74.84	\$449.02	0.588	3.528	\$72.00	\$42.34	\$32.50	\$74.84	\$254.02	\$195.00
Wye	Grease Waste Pipe		3		2" / 1-1/2"	\$53.54	\$160.61	0.488	1.464	\$72.00	\$35.14	\$18.40	\$53.54	\$105.41	\$55.20
Wye	Grease Waste Pipe		4		3" / 2"	\$61.82	\$247.27	0.544	2.176	\$72.00	\$39.17	\$22.65	\$61.82	\$156.67	\$90.60
Reducer	Grease Waste Pipe		2		2" / 1-1/2"	\$48.69	\$97.38	0.389	0.778	\$72.00	\$28.01	\$20.68	\$48.69	\$56.02	\$41.36
Reducer	Grease Waste Pipe		1		3" / 2"	\$54.82	\$54.82	0.435	0.435	\$72.00	\$31.32	\$23.50	\$54.82	\$31.32	\$23.50
CO	EQ		1	Cleanout	2"	\$25.41	\$25.41	0.256	0.256	\$72.00	\$18.43	\$6.98	\$25.41	\$18.43	\$6.98
CO	EQ		1	Cleanout	4"	\$49.12	\$49.12	0.425	0.425	\$72.00	\$30.60	\$18.52	\$49.12	\$30.60	\$18.52
WCO	EQ		3	Wall Cleanout	3"	\$50.56	\$151.68	0.345	1.035	\$72.00	\$24.84	\$25.72	\$50.56	\$74.52	\$77.16
FD-1	EQ		2	Floor Drain	2"	\$58.74	\$117.47	0.388	0.776	\$72.00	\$27.94	\$30.80	\$58.74	\$55.87	\$61.60
PVC COUPLING															
Coupling	Coupling		4	Schedule 40 PVC	2"	\$9.30	\$37.20	0.085	0.34	\$72.00	\$6.12	\$3.18	\$9.30	\$24.48	\$12.72
Coupling	Coupling		7		3"	\$11.94	\$83.55	0.098	0.686	\$72.00	\$7.06	\$4.88	\$11.94	\$49.39	\$34.16
TRENCHING & BACKFILLING:															
	Excavation & Backfilling (3' Deep x 1' Wide Trench) Including All Lat		360			\$6.12	\$2,203.20	0.085	30.6	\$72.00	\$6.12	\$0.00	\$6.12	\$2,203.20	\$0.00
VENT PIPE (BELOW GRADE)															
Pipe	Vent Pipe		4	Schedule 40 PVC	1-1/2"	\$6.75	\$30.31	0.045	0.20205	\$72.00	\$3.24	\$3.51	\$6.75	\$14.55	\$15.76
Pipe	Vent Pipe		4		3"	\$12.56	\$54.38	0.065	0.28145	\$72.00	\$4.68	\$7.88	\$12.56	\$20.26	\$34.12
VENT PIPE FITTINGS															
90 Deg	Vent Pipe		1		1-1/2"	\$24.02	\$24.02	0.260	0.26	\$72.00	\$18.72	\$5.30	\$24.02	\$18.72	\$5.30
90 Deg	Vent Pipe		1	Schedule 40 PVC	3"	\$51.02	\$51.02	0.410	0.41	\$72.00	\$29.52	\$21.50	\$51.02	\$29.52	\$21.50
Tee	Vent Pipe		1		1-1/2"	\$37.78	\$37.78	0.356	0.356	\$72.00	\$25.63	\$12.15	\$37.78	\$25.63	\$12.15
TRENCHING & BACKFILLING:															
	Excavation & Backfilling (3' Deep x 1' Wide Trench) Including All Lat		24			\$6.12	\$146.88	0.085	2.04	\$72.00	\$6.12	\$0.00	\$6.12	\$146.88	\$0.00
VENT PIPE (ABOVE GRADE)															
Pipe	Vent Pipe		115	Schedule 40 PVC	1-1/2"	\$6.75	\$777.80	0.045	5.18535	\$72.00	\$3.24	\$3.51	\$6.75	\$373.35	\$404.46
Pipe	Vent Pipe		270		2"	\$8.71	\$2,356.09	0.062	16.76356	\$72.00	\$4.46	\$4.25	\$8.71	\$1,206.98	\$1,149.12
Pipe	Vent Pipe		20		3"	\$12.56	\$250.70	0.065	1.2974	\$72.00	\$4.68	\$7.88	\$12.56	\$93.41	\$157.28
VENT PIPE FITTINGS															
90 Deg	Vent Pipe		15		1-1/2"	\$24.02	\$360.30	0.260	3.9	\$72.00	\$18.72	\$5.30	\$24.02	\$280.80	\$79.50
90 Deg	Vent Pipe		14		2"	\$45.89	\$642.46	0.395	5.53	\$72.00	\$28.44	\$17.45	\$45.89	\$398.16	\$244.30
Tee	Vent Pipe		1		1-1/2"	\$37.78	\$37.78	0.356	0.356	\$72.00	\$25.63	\$12.15	\$37.78	\$25.63	\$12.15
Tee	Vent Pipe		12		2"	\$62.08	\$744.96	0.515	6.18	\$72.00	\$37.08	\$25.00	\$62.08	\$444.96	\$300.00
Tee	Vent Pipe		1	Schedule 40 PVC	3"	\$74.84	\$74.84	0.588	0.588	\$72.00	\$42.34	\$32.50	\$74.84	\$42.34	\$32.50
Tee	Vent Pipe		5		2" / 1-1/2"	\$47.21	\$236.03	0.388	1.94	\$72.00	\$27.94	\$19.27	\$47.21	\$139.68	\$96.35
Reducer	Vent Pipe		1		2" / 1-1/2"	\$40.53	\$40.53	0.400	0.4	\$72.00	\$28.80	\$11.73	\$40.53	\$28.80	\$11.73
Reducer	Vent Pipe		2		3" / 2"	\$54.82	\$109.64	0.435	0.87	\$72.00	\$31.32	\$23.50	\$54.82	\$62.64	\$47.00
VTR	EQ		3	Vent Through Roof	3"	\$44.27	\$132.80	0.328	0.984	\$72.00	\$23.62	\$20.65	\$44.27	\$70.85	\$61.95
Cap	EQ		2	Pipe End Cap	2"	\$12.81	\$25.61	0.128	0.256	\$72.00	\$9.22	\$3.59	\$12.81	\$18.43	\$7.18
PVC COUPLING															
Coupling	Coupling		11	Schedule 40 PVC	1-1/2"	\$8.64	\$95.04	0.080	0.88	\$72.00	\$5.76	\$2.88	\$8.64	\$63.36	\$31.68
Coupling	Coupling		27		2"	\$9.30	\$251.10	0.085	2.295	\$72.00	\$6.12	\$3.18	\$9.30	\$165.24	\$85.86
Coupling	Coupling		2		3"	\$11.94	\$23.87	0.098	0.196	\$72.00	\$7.06	\$4.88	\$11.94	\$14.11	\$9.76
PIPE SUPPORTS															
Pipe Supports	Adjustable Clevis Hanger		119		1-1/2"	\$7.09	\$843.23	0.078	9.282	\$72.00	\$5.62	\$1.47	\$7.09	\$668.30	\$174.93
Pipe Supports	Adjustable Clevis Hanger		27		2"	\$7.65	\$206.66	0.082	2.214	\$72.00	\$5.90	\$1.75	\$7.65	\$159.41	\$47.25
Pipe Supports	Adjustable Clevis Hanger		2	Steel	3"	\$8.64	\$17.28	0.086	0.172	\$72.00	\$6.19	\$2.45	\$8.64	\$12.38	\$4.90
Pipe Supports	Threaded Rod		119		3/8"	\$9.25	\$1,100.75	0.100	11.9	\$72.00	\$7.20	\$2.05	\$9.25	\$856.80	\$243.95
Pipe Supports	Threaded Rod		29		1/2"	\$8.89	\$257.81	0.100	2.9	\$72.00	\$7.20	\$1.69	\$8.89	\$208.80	\$49.01
CONDENSATE DRAIN PIPE (BELOW GRADE)															
Pipe	Condensate Drain Pipe		52	Schedule 40 PVC	3/4"	\$2.52	\$130.88	0.023	1.196	\$72.00	\$1.66	\$0.86	\$2.52	\$86.11	\$44.77
CONDENSATE DRAIN PIPE FITTINGS															
90 Deg	Condensate Drain Pipe		10	Schedule 40 PVC	3/4"	\$10.83	\$108.30	0.130	1.3	\$72.00	\$9.36	\$1.47	\$10.83	\$93.60	\$14.70
PVC COUPLING															
Coupling	Coupling		5	Schedule 40 PVC	3/4"	\$3.38	\$16.90	0.040	0.2	\$72.00	\$2.88	\$0.50	\$3.38	\$14.40	\$2.50
TRENCHING & BACKFILLING:															
	Excavation & Backfilling (3' Deep x 1' Wide Trench) Including All Lat		156			\$6.12	\$954.72	0.085	13.26	\$72.00	\$6.12	\$0.00	\$6.12	\$954.72	\$0.00
CONDENSATE DRAIN PIPE (ABOVE GRADE)															
Pipe	Condensate Drain Pipe		101	Schedule 40 PVC	3/4"	\$2.52	\$254.22	0.023	2.323	\$72.00	\$1.66	\$0.86	\$2.52	\$167.26	\$86.96
CONDENSATE DRAIN PIPE FITTINGS															
90 Deg	Condensate Drain Pipe		6	Schedule 40 PVC	3/4"	\$10.83	\$64.98	0.130	0.78	\$72.00	\$9.36	\$1.47	\$10.83	\$56.16	\$8.82
PVC COUPLING															
Coupling	Coupling		10	Schedule 40 PVC	3/4"	\$3.38	\$33.80	0.040	0.4	\$72.00	\$2.88	\$0.50	\$3.38	\$28.80	\$5.00
PIPE SUPPORTS															
Pipe Supports	Adjustable Clevis Hanger		16	Steel	3/4"	\$5.58	\$89.28	0.065	1.04	\$72.00	\$4.68	\$0.90	\$5.58	\$74.88	\$14.40
Pipe Supports	Threaded Rod		16		3/8"	\$9.25	\$148.00	0.100	1.6	\$72.00	\$7.20	\$2.05	\$9.25	\$115.20	\$32.80
ROOF DRAIN PIPE (ABOVE GRADE)															
Pipe	Roof Drain Pipe		30	Schedule 40 PVC	4"	\$12.85	\$385.44	0.069	2.07	\$72.00	\$4.97	\$7.88	\$12.85	\$149.04	\$236.40
ROOF DRAIN PIPE FITTINGS															
90 Deg	Roof Drain Pipe		2	Schedule 40 PVC	4"	\$69.82	\$139.64	0.435	0.87	\$72.00	\$31.32	\$38.50	\$69.82	\$62.64	\$77.00
RD-1	EQ		2	Roof Drain	4"	\$182.39	\$364.78	0.450	0.9	\$72.00	\$32.40	\$149.99	\$182.39	\$64.80	\$299.98
PVC COUPLING															
Coupling	Coupling		3	Schedule 40 PVC	4"	\$15.10	\$45.30	0.125	0.375	\$72.00	\$9.00	\$6.10	\$15.10	\$27.00	\$18.30

REFRIGERANT PIPE INSULATION														
Pipe Insulation	Refrigerant Liquid Pipe	8	3/4" Thick Fiberglass Insulat	3/8"	\$3.53	\$28.24	0.022	0.176	\$75.00	\$1.65	\$1.88	\$3.53	\$13.20	\$15.04
Pipe Insulation	Refrigerant Suction Pipe	8		5/8"	\$3.53	\$28.24	0.022	0.176	\$75.00	\$1.65	\$1.88	\$3.53	\$13.20	\$15.04
REFRIGERANT PIPE FITTINGS														
90 Deg	Refrigerant Liquid Pipe	2	Type "ACR" Copper Pipe	3/8"	\$12.53	\$25.06	0.098	0.196	\$75.00	\$7.35	\$5.18	\$12.53	\$14.70	\$10.36
90 Deg	Refrigerant Suction Pipe	2		5/8"	\$15.95	\$31.90	0.104	0.208	\$75.00	\$7.80	\$8.15	\$15.95	\$15.60	\$16.30
Pipe Supports	Adjustable Clevis Hanger	1	Steel	3/8"	\$5.78	\$5.78	0.065	0.065	\$75.00	\$4.88	\$0.90	\$5.78	\$4.88	\$0.90
Pipe Supports	Adjustable Clevis Hanger	1		5/8"	\$5.65	\$5.65	0.064	0.064	\$75.00	\$4.80	\$0.85	\$5.65	\$4.80	\$0.85
Pipe Supports	Threaded Rod	2		3/8"	\$9.55	\$19.10	0.100	0.2	\$75.00	\$7.50	\$2.05	\$9.55	\$15.00	\$4.10
NATURAL GAS PIPE (ABOVE GRADE)														
Pipe	Natural Gas Pipe	7		3/4"	\$16.92	\$118.41	0.131	0.917	\$75.00	\$9.83	\$7.09	\$16.92	\$68.78	\$49.63
Pipe	Natural Gas Pipe	20		1"	\$21.09	\$428.66	0.151	3.06983	\$75.00	\$11.33	\$9.76	\$21.09	\$230.24	\$198.42
Pipe	Natural Gas Pipe	24		1-1/4"	\$26.38	\$628.11	0.180	4.2858	\$75.00	\$13.50	\$12.88	\$26.38	\$321.44	\$306.67
Pipe	Natural Gas Pipe	4		1-1/2"	\$30.34	\$113.17	0.200	0.746	\$75.00	\$15.00	\$15.34	\$30.34	\$55.95	\$57.22
NATURAL GAS PIPE INSULATION														
90 Deg	Natural Gas Pipe	2	Schedule 40 Black Steel Pipe	3/4"	\$54.15	\$108.29	0.571	1.142	\$75.00	\$42.83	\$11.32	\$54.15	\$85.65	\$22.64
90 Deg	Natural Gas Pipe	6		1"	\$59.56	\$357.33	0.615	3.69	\$75.00	\$46.13	\$13.43	\$59.56	\$276.75	\$80.58
90 Deg	Natural Gas Pipe	2		1-1/4"	\$73.59	\$147.17	0.727	1.454	\$75.00	\$54.53	\$19.06	\$73.59	\$109.05	\$38.12
Tee	Natural Gas Pipe	1		1-1/4" / 3/4"	\$117.92	\$117.92	1.143	1.143	\$75.00	\$85.73	\$32.19	\$117.92	\$85.73	\$32.19
Tee	Natural Gas Pipe	1		1-1/2" / 3/4"	\$134.08	\$134.08	1.231	1.231	\$75.00	\$92.33	\$41.75	\$134.08	\$92.33	\$41.75
Reducer	Natural Gas Pipe	1		1-1/4" / 1"	\$124.23	\$124.23	1.143	1.143	\$75.00	\$85.73	\$38.50	\$124.23	\$85.73	\$38.50
Reducer	Natural Gas Pipe	1		1-1/2" / 1-1/4"	\$158.91	\$158.91	1.380	1.38	\$75.00	\$103.50	\$55.41	\$158.91	\$103.50	\$55.41
Cap	Pipe End Cap	2	Pipe End Cap	1-1/2"	\$8.10	\$16.20	0.080	0.16	\$75.00	\$6.00	\$2.10	\$8.10	\$12.00	\$4.20
PIPE SUPPORTS														
Pipe Supports	Adjustable Clevis Hanger	1	Steel	3/4"	\$5.78	\$5.78	0.065	0.065	\$75.00	\$4.88	\$0.90	\$5.78	\$4.88	\$0.90
Pipe Supports	Adjustable Clevis Hanger	3		1"	\$6.30	\$18.90	0.072	0.216	\$75.00	\$5.40	\$0.90	\$6.30	\$16.20	\$2.70
Pipe Supports	Adjustable Clevis Hanger	4		1-1/4"	\$6.81	\$27.22	0.075	0.3	\$75.00	\$5.63	\$1.18	\$6.81	\$22.50	\$4.72
Pipe Supports	Threaded Rod	8		3/8"	\$9.55	\$76.40	0.100	0.8	\$75.00	\$7.50	\$2.05	\$9.55	\$60.00	\$16.40
VENT FLUE PIPE														
Pipe	Vent Flue Pipe	7		4"	\$104.52	\$731.61	0.421	2.947	\$75.00	\$31.58	\$72.94	\$104.52	\$221.03	\$510.58
VENT FLUE PIPE FITTINGS														
90 Deg	Vent Flue Pipe	1		4"	\$500.13	\$500.13	2.667	2.667	\$75.00	\$200.03	\$300.10	\$500.13	\$200.03	\$300.10
AIR DEVICES														
SD-1	EQ	1	SD-1: SHOEMAKER 700MA, Face Size: 6 X 6, Ne		\$161.65	\$161.65	0.350	0.35	\$75.00	\$26.25	\$135.40	\$161.65	\$26.25	\$135.40
SD-2	EQ	1	SD-2: SHOEMAKER 700MA, Face Size: 12 X 12,		\$218.00	\$218.00	0.680	0.68	\$75.00	\$51.00	\$167.00	\$218.00	\$51.00	\$167.00
SD-3	EQ	1	SD-3: SHOEMAKER 700MA, Face Size: 12 X 12,		\$218.00	\$218.00	0.680	0.68	\$75.00	\$51.00	\$167.00	\$218.00	\$51.00	\$167.00
SD-4	EQ	2	SD-4: SHOEMAKER 700MA, Face Size: 12 X 12,		\$218.00	\$436.00	0.680	1.36	\$75.00	\$51.00	\$167.00	\$218.00	\$102.00	\$334.00
SD-5	EQ	6	SD-5: SHOEMAKER 700MA, Face Size: 14 X 14,		\$237.75	\$1,426.50	0.850	5.1	\$75.00	\$63.75	\$174.00	\$237.75	\$382.50	\$1,044.00
SD-6	EQ	1	SD-6: SHOEMAKER 700MA, Face Size: 16 X 16,		\$256.00	\$256.00	1.000	1	\$75.00	\$75.00	\$181.00	\$256.00	\$75.00	\$181.00
SD-7	EQ	1	SD-7: SHOEMAKER 700MA, Face Size: 14 X 14,		\$237.75	\$237.75	0.850	0.85	\$75.00	\$63.75	\$174.00	\$237.75	\$63.75	\$174.00
RG-1	EQ	1	RG-1: SHOEMAKER 905, Face Size: 18 X 12, Net		\$246.65	\$246.65	0.720	0.72	\$75.00	\$54.00	\$192.65	\$246.65	\$54.00	\$192.65
RG-2	EQ	4	RG-2: SHOEMAKER 905, Face Size: 22 X 22, Net		\$310.78	\$1,243.12	1.320	5.28	\$75.00	\$99.00	\$211.78	\$310.78	\$396.00	\$847.12
MAKE-UP AIR UNIT														
MAU-1	EQ	1	MAU-1: Make-Up Air Unit CAPTIVEAIRE A2-D.5		\$787.50	\$787.50	10.500	10.5	\$75.00	\$787.50	\$0.00	\$787.50	\$787.50	\$0.00
KITCHEN HOOD														
H-1	EQ	1	H-1: Hood, CAPTIVEAIRE 5424 ND-2-PSP-F, Size		\$165.00	\$165.00	2.200	2.2	\$75.00	\$165.00	\$0.00	\$165.00	\$165.00	\$0.00
ROOF TOP UNIT														
RTU-2	EQ	1	RTU-2: Rooftop Unit, DAIKIN DCG0601403B, T		\$1,387.50	\$1,387.50	18.500	18.5	\$75.00	\$1,387.50	\$0.00	\$1,387.50	\$1,387.50	\$0.00
KITCHEN HOOD														
H-1	EQ	1	H-1: Hood, CAPTIVEAIRE 5424 ND-2-PSP-F, Size		\$165.00	\$165.00	2.200	2.2	\$75.00	\$165.00	\$0.00	\$165.00	\$165.00	\$0.00
MINI SPLIT INDOOR UNIT														
EV-1	EQ	1	EV-1: FUJITSU ARU18RLF, Style: Slim Duct, Non		\$360.00	\$360.00	4.800	4.8	\$75.00	\$360.00	\$0.00	\$360.00	\$360.00	\$0.00
MINI SPLIT OUTDOOR UNIT														
HP-1	EQ	1	HP-1: FUJITSU AOU18RLF, Nominal Cooling: 18		\$288.75	\$288.75	3.850	3.85	\$75.00	\$288.75	\$0.00	\$288.75	\$288.75	\$0.00
EXHAUST FAN														
EF-1	EQ	1	EF-1: Exhaust Fan, PANASONIC FV-30VQ3, CFM		\$93.75	\$93.75	1.250	1.25	\$75.00	\$93.75	\$0.00	\$93.75	\$93.75	\$0.00
EF-2	EQ	1	EF-2: Exhaust Fan, PANASONIC FV-40VQ4, CFM		\$93.75	\$93.75	1.250	1.25	\$75.00	\$93.75	\$0.00	\$93.75	\$93.75	\$0.00
GF-1	EQ	1	GF-1: Exhaust Fan, CAPTIVEAIRE DU180HFA, C		\$123.75	\$123.75	1.650	1.65	\$75.00	\$123.75	\$0.00	\$123.75	\$123.75	\$0.00
ELECTRIC HEATER														
EH-1	EQ	1	EH-1: Electric Heater, CADET CSC101W, Capaci		\$198.75	\$198.75	2.650	2.65	\$75.00	\$198.75	\$0.00	\$198.75	\$198.75	\$0.00
EH-2	EQ	2	EH-2: Electric Heater, CADET CSC151W, Capaci		\$198.75	\$397.50	2.650	5.3	\$75.00	\$198.75	\$0.00	\$198.75	\$397.50	\$0.00
EH-3	EQ	1	EH-3: Electric Heater, CADET CSC151W, Capaci		\$198.75	\$198.75	2.650	2.65	\$75.00	\$198.75	\$0.00	\$198.75	\$198.75	\$0.00
DAMPERS														
Damper	EQ	1	Volume Damper	5"	\$148.02	\$148.02	0.500	0.5	\$75.00	\$37.50	\$110.52	\$148.02	\$37.50	\$110.52
Damper	EQ	1	Volume Damper	6"	\$298.78	\$298.78	0.560	0.56	\$75.00	\$42.00	\$256.78	\$298.78	\$42.00	\$256.78
Damper	EQ	2	Volume Damper	8"	\$337.89	\$675.78	0.680	1.36	\$75.00	\$51.00	\$286.89	\$337.89	\$102.00	\$573.78
Damper	EQ	2	Volume Damper	9"	\$373.99	\$747.98	0.850	1.7	\$75.00	\$63.75	\$310.24	\$373.99	\$127.50	\$620.48
Damper	EQ	8	Volume Damper	10"	\$395.24	\$3,161.92	1.000	8	\$75.00	\$75.00	\$320.24	\$395.24	\$600.00	\$2,561.92
Damper	EQ	1	Motorized Damper	6"	\$250.64	\$250.64	0.580	0.58	\$75.00	\$43.50	\$207.14	\$250.64	\$43.50	\$207.14
MISCELLANEOUS														
Thermostat	EQ	8	Thermostat		\$134.39	\$1,075.12	0.650	5.2	\$75.00	\$48.75	\$85.64	\$134.39	\$390.00	\$685.12
Cap	Wall Cap	1	Wall Cap	6"	\$92.50	\$92.50	0.500	0.5	\$75.00	\$37.50	\$55.00	\$92.50	\$37.50	\$55.00
Cap	Wall Cap	1	Wall Cap	8"	\$125.95	\$125.95	0.680	0.68	\$75.00	\$51.00	\$74.95	\$125.95	\$51.00	\$74.95
Cap	Wall Cap	1	Wall Cap	10"	\$168.60	\$168.60	0.780	0.78	\$75.00	\$58.50	\$110.10	\$168.60	\$58.50	\$110.10
TOTALS:												\$73,479.71	\$39,216.07	

Total Hours	769.65
Total Cost	\$112,696
Overhead/ Profit: 15%	\$16,904
Insurance (3%)	\$3,381
Contingency (5%)	\$5,635
Material Tax (0%)	\$0.00
SUGGESTED BID	\$138,616