



Dynamic Estimation Inc.

Website: <https://dynamicestimation.net/>

Email: info@dynamicestimation.net

Phone: 859-515-2045

PROJECT ID:

A.Y. McDonald Bristol Manufacturing Facility

SCOPE:

HVAC & PLUMBING

ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LABOR	MATERIAL	UNIT COST	TOTAL COST	TRADE COST
GENERAL REQUIREMENTS									
1		Supervision	1	LS	\$ -	\$ -	\$0	\$0	
2		Permits	1	LS	\$ -	\$ -	\$0	\$0	
3		Final Clean-up	1	LS	\$ -	\$ -	\$0	\$0	
4		Mobilization Costs	1	LS	\$ -	\$ -	\$0	\$0	
5		Project Overheads	1	LS	\$ -	\$ -	\$0	\$0	
6		Bonds	1	LS	\$ -	\$ -	\$0	\$0	
7		Temporary Control & Facilities	1	LS	\$ -	\$ -	\$0	\$0	
8		Scaffolding	8500	SF	\$ -	\$ -	\$0	\$0	
		Subtotal (General Requirements)							\$0
DIVISION 2- EXISTING CONDITION									
		RELOCATE EXISTING HVAC EQUIPMENTS							
9		AIR COOLED AIR COMPRESSOR ACOMP-2 MFR: SULLAIR MODEL: SN5509 CFM 6000	1	EA	\$ -	\$ -	\$0	\$0	
10		AIR COOLED AIR COMPRESSOR ACOMP-3 MFR: SULLAIR MODEL: LS110S CFM 11800	1	EA	\$ -	\$ -	\$0	\$0	
11		AIR COOLED AIR COMPRESSOR ACOMP-5 MFR: SAUER MODEL: WP33L	1	EA	\$ -	\$ -	\$0	\$0	
12		AIR COOLED AIR COMPRESSOR ACOMP-6 MFR: SAUER MODEL: WP33L	1	EA	\$ -	\$ -	\$0	\$0	
13		AIR COOLED AIR COMPRESSOR ACOMP-7 MFR: SAUER MODEL: WP33L	1	EA	\$ -	\$ -	\$0	\$0	
14		CA REFRIGERATOR AIR DRYER RAD-1 MFR: BEKO MODEL: DRYPOINT RAX 1500	1	EA	\$ -	\$ -	\$0	\$0	
15		CA REFRIGERATOR AIR DRYER RAD-2 MFR: BEKO MODEL: DRYPOINT RAX 1500	1	EA	\$ -	\$ -	\$0	\$0	
		Subtotal (Existing Condition)							\$0
DIVISION 22- PLUMBING									
		PLUMBING FIXTURE							
16		2" Dia FCO-1 FLOOR CLEANOUT MFR: ZURN MODEL: Z1400 FLOOR CLEANOUT - ADJUSTABLE, CAST IRON HOUSING, ANCHOR FLANGE, TAPERED THREAD PLUG, SECURED STAINLESS STEEL SCORIATED TOP WITH EXTRA HEAVY LOAD RATING, MANUFACTURER OPTION FOR HEAVY WHEEL TRAFFIC	4	EA	\$ -	\$ -	\$0	\$0	
17		4" Dia FCO-1 FLOOR CLEANOUT MFR: ZURN MODEL: Z1400 FLOOR CLEANOUT - ADJUSTABLE, CAST IRON HOUSING, ANCHOR FLANGE, TAPERED THREAD PLUG, SECURED STAINLESS STEEL SCORIATED TOP WITH EXTRA HEAVY LOAD RATING, MANUFACTURER OPTION FOR HEAVY WHEEL TRAFFIC	42	EA	\$ -	\$ -	\$0	\$0	
18		4" Dia FD-1 FLOOR DRAIN MFR: KUSEL MODEL: KE FLOOR DRAIN - CAST IRON BODY, HEAVY DUTY CAST/DUCTILE IRON TOP, 12" ROUND, 4" BOTTOM OUTLET, MEDIUM SUMP, FREE STANDING SEDIMENT BUCKET, FLASHING COLLAR. TRAP SEAL - 4", PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM, SEALING GASKETS, RECLOSERS AND SEALS WHEN DISCHARGE IS COMPLETED, ASSE 1072.	16	EA	\$ -	\$ -	\$0	\$0	
19		2" Dia FD-2 FLOOR DRAIN MFR: ZURN MODEL: Z415 FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE ADJUSTABLE TOP, 5" ROUND, 2" BOTTOM OUTLET, FLASHING COLLAR. TRAP SEAL - 2", PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM, SEALING GASKETS, RECLOSERS AND SEALS WHEN DISCHARGE IS COMPLETED, ASSE 1072.	21	EA	\$ -	\$ -	\$0	\$0	
20		TRAP SEAL TS-1	15	EA	\$ -	\$ -	\$0	\$0	
21		4" Dia HD-1 HUB DRAIN MFR: ZURN MODEL: Z1870 6" FUNNEL INTLET, BUTT WELD CONNECTION.	16	EA	\$ -	\$ -	\$0	\$0	
22		2" Dia WCO WALL CLEANOUT MFR: ZURN MODEL: Z1446	2	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LABOR	MATERIAL	UNIT COST	TOTAL COST	TRADE COST
23		4" Dia FCO-1 Floor Cleanout MFR: ZURN MODEL: Z1400 FLOOR CLEANOUT - ADJUSTABLE, CAST IRON HOUSING, ANCHOR FLANGE, TAPERED THREAD PLUG, SECURED STAINLESS STEEL SCORiated TOP WITH EXTRA HEAVY LOAD RATING, MANUFACTURER OPTION FOR HEAVY WHEEL TRAFFIC	1	EA	\$ -	\$ -	\$0	\$0	
24		6" Dia YCO-1 YARD CLEANOUT	3	EA	\$ -	\$ -	\$0	\$0	
25		ROOF DRAIN OUTLET W/ DECORATIVE PLATE RDO-1 MFR: ZURN MODEL: Z-199	1	EA	\$ -	\$ -	\$0	\$0	
26		WATER SOFTNER S2 MFR: CULLIGAN MODEL: CTM-300-PF-2 10 GPM SIZE: 24"X72"	1	EA	\$ -	\$ -	\$0	\$0	
27		WATER SOFTNER S1 MFR: CULLIGAN MODEL: CTM-300-PF-2 70 GPM SIZE: 24"X72"	1	EA	\$ -	\$ -	\$0	\$0	
28		EXPANSION TANK ET1 MFR: AY MCDONALD MODEL: 16005-V3MT VOLUME: 5 GAL	1	EA	\$ -	\$ -	\$0	\$0	
29		EXPANSION TANK ET2 MFR: AY MCDONALD MODEL: 16005-V3MT VOLUME: 2 GAL	3	EA	\$ -	\$ -	\$0	\$0	
30		RECIRCULATING PUMP CP-2 MFR: GRUNDFOS MODEL: UP SERIES	1	EA	\$ -	\$ -	\$0	\$0	
31		RECIRCULATING PUMP CP-1 MFR: GRUNDFOS MODEL: UP 15	3	EA	\$ -	\$ -	\$0	\$0	
32		ELECTRIC WATER HEATER EWH1 MFR: A.O.SMITH MODEL: DRE-120-12 CAPACITY TANK 120 GAL	1	EA	\$ -	\$ -	\$0	\$0	
33		ELECTRIC WATER HEATER EWH2 MFR: A.O.SMITH MODEL: DRE-52-18 CAPACITY: 50 GAL	1	EA	\$ -	\$ -	\$0	\$0	
34		ELECTRIC WATER HEATER EWH3 MFR: A.O.SMITH MODEL: DRE-52-18 CAPACITY: 50 GAL	1	EA	\$ -	\$ -	\$0	\$0	
35		ELECTRIC WATER HEATER EWH4 MFR: A.O.SMITH MODEL: DRE-52-18 CAPACITY: 50 GAL	1	EA	\$ -	\$ -	\$0	\$0	
36		ELECTRIC WATER HEATER EWH5 MFR: A.O.SMITH MODEL: UPVA-40Y	1	EA	\$ -	\$ -	\$0	\$0	
37		ELECTRIC WATER HEATER EWH6 MFR: A.O.SMITH MODEL: UPVA-40Y	1	EA	\$ -	\$ -	\$0	\$0	
38		ELECTRIC WATER HEATER EWH7 MFR: A.O.SMITH MODEL: UPVA-40Y	1	EA	\$ -	\$ -	\$0	\$0	
39		LAVATORY WALL MOUNT L1 BOWL MFR: SLOAN MODEL: SS-3103 FAUCET MFR: SLOAN MODEL: EAF-100	23	EA	\$ -	\$ -	\$0	\$0	
40		LAVATORY COUNTERTOP MOUNTED L2 BOWL MFR: ZURN MODEL: Z5124 FAUCET MFR: SLOAN MODEL: EAF-100	3	EA	\$ -	\$ -	\$0	\$0	
41		ELECTRIC WATER COOLER EWC1 MFR: ELKAY MODEL: LZST	7	EA	\$ -	\$ -	\$0	\$0	
42		EMERGENCY EYE WASH EEW1 MFR: GUARDIAN MODEL: G1750P	3	EA	\$ -	\$ -	\$0	\$0	
43		ROOD DRAIN RD1 MFR: ZURN MODEL: Z100	33	EA	\$ -	\$ -	\$0	\$0	
44		BACKFLOW PREVENTER BFP-1 MFR: WATTS MODEL: 957	1	EA	\$ -	\$ -	\$0	\$0	
45		WALL HYDRANT HB1 MFR: WOODFORD MODEL: 67	10	EA	\$ -	\$ -	\$0	\$0	

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TEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LABOR	MATERIAL	UNIT COST	TOTAL COST	TRADE COST
46		WATER CLOSET WC1 BOWL MFR: SLOAN MODEL: ST-2459 CARRIER MFR: ZURN MODEL: Z1201-ND FLUSH VALVE MFR: SLOAN MODEL: 111 SFSM SEAT MFR: SLOAN	31	EA	\$ -	\$ -	\$0	\$0	
47		WATER CLOSET WC2 BOWL MFR: SLOAN MODEL: ST-2029 FLUSH VALVE MFR: SLOAN MODEL: 111 SFSM SEAT MFR: SLOAN	5	EA	\$ -	\$ -	\$0	\$0	
48		URINAL UR1 BOWL MFR: SLOAN MODEL: SU-1009 CARRIER MFR: ZURN MODEL: 186 SFSM	11	EA	\$ -	\$ -	\$0	\$0	
49		SERVICE SINK MS1 BOWL MFR: ZURN MODEL: Z-1996 FAUCET MFR: ZURN MODEL: Z841M1-XL	4	EA	\$ -	\$ -	\$0	\$0	
50		SINK SK1 BOWL MFR: ELKAY MODEL: LR FAUCET MFR: ELKAY MODEL: LK6000	6	EA	\$ -	\$ -	\$0	\$0	
51		WASH FOUNTAIN WF1 MFR: BRADLEY MODEL: SN2004	7	EA	\$ -	\$ -	\$0	\$0	
52		SHOWER SH1 SHOWER MIXING VALVE MFR: MOEN COMMERCIAL MODEL: EP15 ONE PIECE, FIBERGLASS CONSTRUCTION, WHITE GELCOATED FINISH, 36"x36" (NOMINAL), INTEGRAL SOAP DISH, 2" FLOOR DRAIN, CHROME-PLATED BRASS STRAINER. SINGLE HANDLE PRESSURE BALANCED MIXING FAUCET, BRASS OR BRONZE CONSTRUCTION, POLISHED CHROME CAST METAL LEVER HANDLE, CHROME-PLATED PLASTIC SHOWERHEAD WITH SWIVEL BALL JOINT, ADJUSTABLE SPRAY, CHROME-PLATED BRASS ARM AND FLANGE. 1" DIAMETER CHROME-PLATED SHOWER ROD, COMMERCIAL GRADE VINYL SHOWER CURTAIN.	1	EA	\$ -	\$ -	\$0	\$0	
53		SHOWER SH2 SHOWER STALL MFR: OASIS MODEL: SH-3636 SHOWER MIXING VALVE MFR: MOEN COMMERCIAL MODEL: 8346 ACCESSIBLE ONE PIECE, REINFORCED FIBERGLASS CONSTRUCTION, WHITE GELCOATED FINISH, 36"x36" (NOMINAL), RIGHT OR LEFT HAND AS SHOWN ON DRAWINGS, SLIP-RESISTANT FLOOR, 2" FLOOR DRAIN, 4" NICKEL BRONZE STRAINER, ASTM F-446, IN COMPLIANCE WITH LATEST ANSI A117.1 AND ADA STANDARDS. ACCESSIBLE, SINGLE HANDLE PRESSURE BALANCED MIXING FAUCET, BRASS OR BRONZE CONSTRUCTION, WASHERLESS DESIGN CHROME-PLATED BRASS ARM AND FLANGE, HAND HELD SHOWER WITH ON/OFF CONTROL AND NON-POSITIVE SHUT OFF, FOLD DOWN PHENOLIC SIMULATED TEAKWOOD SEAT, 1 1/2" 18 GAUGE TYPE 304 STAINLESS STEEL HORIZONTAL GRAB BAR ON BACK WALL AND VALVE WALL, 1" DIAMETER STAINLESS STEEL CURTAIN ROD, COMMERCIAL GRADE VINYL SHOWER CURTAIN.	1	EA	\$ -	\$ -	\$0	\$0	
54		WATER HAMMER ARRESTOR WHA1 MFR: ZURN MODEL: 1260XL-A	2	EA	\$ -	\$ -	\$0	\$0	
55		WATER HAMMER ARRESTOR WHA2 MFR: ZURN MODEL: 1260XL-B	1	EA	\$ -	\$ -	\$0	\$0	
56		WATER HAMMER ARRESTOR WHA3 MFR: ZURN MODEL: 1260XL-C	1	EA	\$ -	\$ -	\$0	\$0	
57		WATER HAMMER ARRESTOR WHA4 MFR: ZURN MODEL: 1260XL-D	3	EA	\$ -	\$ -	\$0	\$0	
									SCH 40 PVC D1784 CELL CLASS 24447 WITH SCH 80 FITTING SOLVENT CEMENT JOINT
		SANITARY PIPE LINE							
58		2" Dia Sanitary Pipe Line	1077	FT	\$ -	\$ -	\$0	\$0	
59		3" Dia Sanitary Pipe Line	78	FT	\$ -	\$ -	\$0	\$0	
60		4" Dia Sanitary Pipe Line	1912	FT	\$ -	\$ -	\$0	\$0	
61		6" Dia Sanitary Pipe Line	1738	FT	\$ -	\$ -	\$0	\$0	
62		8" Dia Sanitary Pipe Line	424	FT	\$ -	\$ -	\$0	\$0	
		SANITARY PIPE LINE FITTING							
63		2" Dia 45 Degree Elbow	21	EA	\$ -	\$ -	\$0	\$0	
64		2" Dia 90 Degree Elbow	89	EA	\$ -	\$ -	\$0	\$0	
65		2" Dia End Cap	2	EA	\$ -	\$ -	\$0	\$0	
66		2" Dia Tee	29	EA	\$ -	\$ -	\$0	\$0	
67		2" Dia Wye Tee	16	EA	\$ -	\$ -	\$0	\$0	
68		3" Dia 45 Degree Elbow	3	EA	\$ -	\$ -	\$0	\$0	
69		3" Dia 90 Degree Elbow	9	EA	\$ -	\$ -	\$0	\$0	



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HVAC & PLUMBING

ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LABOR	MATERIAL	UNIT COST	TOTAL COST	TRADE COST
70		3" Dia Wye Tee	3	EA	\$ -	\$ -	\$0	\$0	SCH 40 PVC D1784 CELL CLASS 24447 WITH SCH 80 FITTING SOLVENT CEMENT JOINT
71		3"x2" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
72		3"x2" Dia Tee	3	EA	\$ -	\$ -	\$0	\$0	
73		3"x2" Dia Wye Tee	1	EA	\$ -	\$ -	\$0	\$0	
74		4" Dia 45 Degree Elbow	31	EA	\$ -	\$ -	\$0	\$0	
75		4" Dia 90 Degree Elbow	78	EA	\$ -	\$ -	\$0	\$0	
76		4" Dia End cap	5	EA	\$ -	\$ -	\$0	\$0	
77		4" Dia Tee	12	EA	\$ -	\$ -	\$0	\$0	
78		4" Dia Wall Sleeve	1	EA	\$ -	\$ -	\$0	\$0	
79		4" Dia Wye Tee	32	EA	\$ -	\$ -	\$0	\$0	
80		4"x2" Dia Reducer	6	EA	\$ -	\$ -	\$0	\$0	
81		4"x2" Dia Tee	22	EA	\$ -	\$ -	\$0	\$0	
82		4"x2" Dia Wye Tee	25	EA	\$ -	\$ -	\$0	\$0	
83		4"x3" Dia Wye Tee	5	EA	\$ -	\$ -	\$0	\$0	
84		6" Dia 45 Degree Elbow	7	EA	\$ -	\$ -	\$0	\$0	
85		6" Dia End Cap	2	EA	\$ -	\$ -	\$0	\$0	
86		6" Dia Wall Sleeve	4	EA	\$ -	\$ -	\$0	\$0	
87		6" Dia Wye Tee	7	EA	\$ -	\$ -	\$0	\$0	
88		6"x2" Dia TEE	1	EA	\$ -	\$ -	\$0	\$0	
89		6"x2" Dia Wye Tee	4	EA	\$ -	\$ -	\$0	\$0	
90		6"x3" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
91		6"x4" Dia Reducer	5	EA	\$ -	\$ -	\$0	\$0	
92		6"x4" Dia Wye Tee	34	EA	\$ -	\$ -	\$0	\$0	
93		8" Dia 45 Degree Elbow	3	EA	\$ -	\$ -	\$0	\$0	
94		8" Dia Wall Sleeve	1	EA	\$ -	\$ -	\$0	\$0	
95		8" Dia Wye Tee	1	EA	\$ -	\$ -	\$0	\$0	
96		8"x4" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
97		8"x4" Dia Tee	5	EA	\$ -	\$ -	\$0	\$0	
98		8"x4" Dia Wye Tee	1	EA	\$ -	\$ -	\$0	\$0	
99		8"x6" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
100		8"x6" Dia Wye Tee	3	EA	\$ -	\$ -	\$0	\$0	
		VENT PIPE LINE							
101		1-1/2" Dia Vent Pipe Line	20	FT	\$ -	\$ -	\$0	\$0	
102		2" Dia Vent Pipe Line	425	FT	\$ -	\$ -	\$0	\$0	
103		3" Dia Vent Pipe Line	22	FT	\$ -	\$ -	\$0	\$0	
104		4" Dia Vent Pipe Line	27	FT	\$ -	\$ -	\$0	\$0	
		VENT PIPE LINE RISER							
105		1-1/2" Dia Vent Pipe Line	32	FT	\$ -	\$ -	\$0	\$0	
106		2" Dia Vent Pipe Line	1161	FT	\$ -	\$ -	\$0	\$0	
107		3" Dia Vent Pipe Line	60	FT	\$ -	\$ -	\$0	\$0	
108		3" Dia Vent Pipe Line	20	FT	\$ -	\$ -	\$0	\$0	
109		4" Dia Vent Pipe Line	20	FT	\$ -	\$ -	\$0	\$0	
		VENT PIPE LINE FITTING							
110		1-1/2" Dia 90 Degree Elbow	2	EA	\$ -	\$ -	\$0	\$0	
111		2" Dia 45 Degree Elbow	2	EA	\$ -	\$ -	\$0	\$0	
112		2" Dia 45 Degree Elbow	3	EA	\$ -	\$ -	\$0	\$0	
113		2" Dia 90 Degree Elbow	95	EA	\$ -	\$ -	\$0	\$0	
114		2" Dia Tee	18	EA	\$ -	\$ -	\$0	\$0	
115		2" Dia Tee	4	EA	\$ -	\$ -	\$0	\$0	
116		2" Dia Wye Tee	8	EA	\$ -	\$ -	\$0	\$0	
117		2" Dia Wye Tee	1	EA	\$ -	\$ -	\$0	\$0	
118		2"x1-1/2" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
119		3" Dia 90 Degree Elbow	1	EA	\$ -	\$ -	\$0	\$0	
120		3" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
121		3"x2" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
122		3"x2" Dia Tee	6	EA	\$ -	\$ -	\$0	\$0	
123		3"x2" Dia Wye Tee	3	EA	\$ -	\$ -	\$0	\$0	
124		4" Dia 90 Degree Elbow	1	EA	\$ -	\$ -	\$0	\$0	
125		4" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
126		4"x1-1/2" dia Tee	3	EA	\$ -	\$ -	\$0	\$0	
127		4"x2" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
128		4"x2" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
129		2"x1-1/2" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
130		2" Dia Vent Through Roof	16	EA	\$ -	\$ -	\$0	\$0	
131		3" Dia Vent Through Roof	3	EA	\$ -	\$ -	\$0	\$0	
		STORM DRAIN PIPE LINE							SCH 40 PVC D1784 CELL CLASS 24447 WITH SCH 80 FITTING SOLVENT CEMENT JOINT
132		2" Dia ST Pipe Line	10	FT	\$ -	\$ -	\$0	\$0	
133		6" Dia ST Pipe Line	3479	FT	\$ -	\$ -	\$0	\$0	
134		8" Dia ST Pipe Line	310	FT	\$ -	\$ -	\$0	\$0	
135		10" Dia ST Pipe Line	235	FT	\$ -	\$ -	\$0	\$0	
136		12" Dia ST Pipe Line	138	FT	\$ -	\$ -	\$0	\$0	
137		8" Dia ST Pipe Line Under Ground	995	FT	\$ -	\$ -	\$0	\$0	
138		12" Dia ST Pipe Line Under Ground	6	FT	\$ -	\$ -	\$0	\$0	
		STORM DRAIN PIPE LINE RISER							
139		6" Dia ST Pipe Line	693	FT	\$ -	\$ -	\$0	\$0	
140		8" Dia ST Pipe Line	476	FT	\$ -	\$ -	\$0	\$0	
141		10" Dia ST Pipe Line	5	FT	\$ -	\$ -	\$0	\$0	
142		12" Dia ST Pipe Line	81	FT	\$ -	\$ -	\$0	\$0	
143		2" Dia ST Pipe Line	20	FT	\$ -	\$ -	\$0	\$0	



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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LABOR	MATERIAL	UNIT COST	TOTAL COST	TRADE COST
		STORM DRAIN PIPE LINE FITTING							
144		6" Dia 45 Degree Elbow	23	EA	\$ -	\$ -	\$0	\$0	
145		6" Dia 90 Degree Elbow	24	EA	\$ -	\$ -	\$0	\$0	
146		6" Dia Cleanout	4	EA	\$ -	\$ -	\$0	\$0	
147		6" Dia Tee	2	EA	\$ -	\$ -	\$0	\$0	
148		6" Dia Wye Tee	10	EA	\$ -	\$ -	\$0	\$0	
149		8" Dia 45 Degree Elbow	7	EA	\$ -	\$ -	\$0	\$0	
150		8" Dia 90 Degree Elbow	15	EA	\$ -	\$ -	\$0	\$0	
151		8" Dia Cleanout	8	EA	\$ -	\$ -	\$0	\$0	
152		8" Dia Tee	2	EA	\$ -	\$ -	\$0	\$0	
153		8" Dia Wall Sleeve	1	EA	\$ -	\$ -	\$0	\$0	
154		8" Dia Wye Tee	4	EA	\$ -	\$ -	\$0	\$0	
155		8"x6" Dia Reducer	6	EA	\$ -	\$ -	\$0	\$0	
156		8"x6" Dia Wye Tee	9	EA	\$ -	\$ -	\$0	\$0	
157		10" Dia 90 Degree Elbow	6	EA	\$ -	\$ -	\$0	\$0	
158		10" Dia Tee	2	EA	\$ -	\$ -	\$0	\$0	
159		10"x8" Dia Reducer	6	EA	\$ -	\$ -	\$0	\$0	
160		10"x8" Dia Wye Tee	4	EA	\$ -	\$ -	\$0	\$0	
161		12" Dia 45 Degree Elbow	3	EA	\$ -	\$ -	\$0	\$0	
162		12" Dia 90 Degree Elbow	7	EA	\$ -	\$ -	\$0	\$0	
163		12" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
164		12" Dia Wall Sleeve	2	EA	\$ -	\$ -	\$0	\$0	
165		12"x6" Dia Wye Tee	3	EA	\$ -	\$ -	\$0	\$0	
166		12"x8" Wye Tee	2	EA	\$ -	\$ -	\$0	\$0	
167		12"x8" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
168		12"x10" Dia Wye Tee	2	EA	\$ -	\$ -	\$0	\$0	
169		12"x10" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
170		2" Dia 90 Degree Elbow	1	EA	\$ -	\$ -	\$0	\$0	
		DRAIN PIPE LINE							
171		2" Dia Drain Pipe Line	1692	FT	\$ -	\$ -	\$0	\$0	SCH 40 PVC D1784 CELL CLASS 24447 WITH SCH 80 FITTING SOLVENT CEMENT JOINT
		DRAIN PIPE LINE RISER							
172		2" Dia Drain Pipe Line	382	FT	\$ -	\$ -	\$0	\$0	
		DRAIN PIPE LINE FITTING							
173		2" Dia 90 Degree Elbow	77	EA	\$ -	\$ -	\$0	\$0	
174		2" Dia 45 Degree Elbow	7	EA	\$ -	\$ -	\$0	\$0	
175		2" Dia Tee	4	EA	\$ -	\$ -	\$0	\$0	
176		2" Dia Wye Tee	2	EA	\$ -	\$ -	\$0	\$0	
		PRO-PD PIPE LINE							
177		2" Dia PRO-PD Pipe Line	349	FT	\$ -	\$ -	\$0	\$0	SCH 80 A53 GALV STEEL GROOVED PIPE WITH NPT JOINT & FITTING
		PRO-PD PIPE LINE RISER							
178		2" Dia PRO-PD Pipe Line	60	FT	\$ -	\$ -	\$0	\$0	
		PRO-PD PIPE LINE FITTING							
179		2" Dia End Cap	3	EA	\$ -	\$ -	\$0	\$0	
180		2" Dia 90 Degree Elbow	7	EA	\$ -	\$ -	\$0	\$0	
181		2" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
182		2" Dia 45 Degree Elbow	1	EA	\$ -	\$ -	\$0	\$0	
		GAS PIPE LINE							
183		3/4" Dia Gas Pipe Line	844	FT	\$ -	\$ -	\$0	\$0	CARBON STEEL A106 SCH 80 SEAMLESS PIPE WITH SOCKET WELD COUPLING JOINT (1/2"x2")
184		1-1/2" Dia Gas Pipe Line	435	FT	\$ -	\$ -	\$0	\$0	
185		2" Dia Gas Pipe Line	544	FT	\$ -	\$ -	\$0	\$0	
186		3" Dia Gas Pipe Line	681	FT	\$ -	\$ -	\$0	\$0	CARBON STEEL A106 SCH 40 SEAMLESS PIPE WITH BUTT WELD JOINT
187		4" Dia Gas Pipe Line	259	FT	\$ -	\$ -	\$0	\$0	
188		5" Dia Gas Pipe Line	146	FT	\$ -	\$ -	\$0	\$0	
189		5" Dia Gas Pipe Line Under Ground	2	FT	\$ -	\$ -	\$0	\$0	
		GAS PIPE LINE RISER							
190		3/4" Dia Gas Pipe Line	36	FT	\$ -	\$ -	\$0	\$0	
191		1-1/2" Dia Gas Pipe Line	37	FT	\$ -	\$ -	\$0	\$0	
192		2" Dia Gas Pipe Line	20	FT	\$ -	\$ -	\$0	\$0	
193		3" Dia Gas Pipe Line	10	FT	\$ -	\$ -	\$0	\$0	
194		5" Dia Gas Pipe Line	30	FT	\$ -	\$ -	\$0	\$0	
		GAS PIPE LINE FITTING							
195		3/4" Dia 90 Degree Elbow	9	EA	\$ -	\$ -	\$0	\$0	
196		3/4" Dia Plug	8	EA	\$ -	\$ -	\$0	\$0	
197		3/4" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
198		3/4" Dia Union	24	EA	\$ -	\$ -	\$0	\$0	
199		3/4" Sediment Trap	8	EA	\$ -	\$ -	\$0	\$0	
200		1-1/2" Dia 90 Degree Elbow	4	EA	\$ -	\$ -	\$0	\$0	
201		1-1/2" Dia End Cap	1	EA	\$ -	\$ -	\$0	\$0	
202		1-1/2" Dia Plug	13	EA	\$ -	\$ -	\$0	\$0	
203		1-1/2" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
204		1-1/2" Dia Union	39	EA	\$ -	\$ -	\$0	\$0	



Dynamic Estimation Inc.

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Phone: 859-515-2045

PROJECT ID:

A.Y. McDonald Bristol Manufacturing Facility

SCOPE:

HVAC & PLUMBING

ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LABOR	MATERIAL	UNIT COST	TOTAL COST	TRADE COST
205		1-1/2" Sediment Trap	13	EA	\$ -	\$ -	\$0	\$0	TYPE L COPPER PRESS FIT DRAWN C12200 PIPE (1/2"x3")
206		1-1/2"x3/4" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
207		2" Dia 90 Degree Elbow	6	EA	\$ -	\$ -	\$0	\$0	
208		2" Dia Plug	3	EA	\$ -	\$ -	\$0	\$0	
209		2" Dia Socket	2	EA	\$ -	\$ -	\$0	\$0	
210		2" Dia Tee	3	EA	\$ -	\$ -	\$0	\$0	
211		2" Dia Union	9	EA	\$ -	\$ -	\$0	\$0	
212		2" Sediment Trap	3	EA	\$ -	\$ -	\$0	\$0	
213		2"x1-1/2" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
214		2"x3/4" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
215		3" Dia 90 Degree Elbow	2	EA	\$ -	\$ -	\$0	\$0	
216		3" Dia Tee	12	EA	\$ -	\$ -	\$0	\$0	
217		3"x1-1/2" Dia Reducer	8	EA	\$ -	\$ -	\$0	\$0	
218		3"x2" Dia Reducer	3	EA	\$ -	\$ -	\$0	\$0	
219		3"x3/4" Dia Reducer	4	EA	\$ -	\$ -	\$0	\$0	
220		4" Dia End Cap	1	EA	\$ -	\$ -	\$0	\$0	
221		4" Dia Tee	2	EA	\$ -	\$ -	\$0	\$0	
222		4"x1-1/2" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
223		4"x1-1/2" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
224		4"x3" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
225		5" Dia 90 Degree Elbow	4	EA	\$ -	\$ -	\$0	\$0	
226		5" Dia Plug	2	EA	\$ -	\$ -	\$0	\$0	
227		5" Dia Tee	3	EA	\$ -	\$ -	\$0	\$0	
228		5" Dia Union	6	EA	\$ -	\$ -	\$0	\$0	
229		5" Sediment Trap	2	EA	\$ -	\$ -	\$0	\$0	
230		5"x2" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
231		5"x3" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
232		5"x4" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
233		Durablock Pipe Support @ 10' O.C	1	EA	\$ -	\$ -	\$0	\$0	
234		Pressure Regulator	3	EA	\$ -	\$ -	\$0	\$0	
235		Roof Penetration	1	EA	\$ -	\$ -	\$0	\$0	
		GAS PIPE LINE VALVE							
236		3/4" Dia Pressure Regulator	8	EA	\$ -	\$ -	\$0	\$0	
237		3/4" Dia Shutoff Valve	8	EA	\$ -	\$ -	\$0	\$0	
238		1-1/2" Dia Isolation Valve	1	EA	\$ -	\$ -	\$0	\$0	
239		1-1/2" Dia Pressure Regulator	13	EA	\$ -	\$ -	\$0	\$0	
240		1-1/2" Dia Shutoff Valve	13	EA	\$ -	\$ -	\$0	\$0	
241		2" Dia Pressure Regulator	3	EA	\$ -	\$ -	\$0	\$0	
242		2" Dia Shutoff Valve	3	EA	\$ -	\$ -	\$0	\$0	
243		5" Dia Pressure Regulator	2	EA	\$ -	\$ -	\$0	\$0	
244		5" Dia Shutoff Valve	7	EA	\$ -	\$ -	\$0	\$0	
		COLD WATER PIPE LINE							SCH 40 SS STEEL 304L PIPE WITH SOCKET WELD COUPLING JOINT
245		1/2" Dia Cold Water Pipe Line	38	FT	\$ -	\$ -	\$0	\$0	
246		3/4" Dia Cold Water Pipe Line	1079	FT	\$ -	\$ -	\$0	\$0	
247		1" Dia Cold Water Pipe Line	115	FT	\$ -	\$ -	\$0	\$0	
248		1-1/2" Dia Cold Water Pipe Line	336	FT	\$ -	\$ -	\$0	\$0	
249		2" Dia Cold Water Pipe Line	124	FT	\$ -	\$ -	\$0	\$0	
250		2-1/2" Dia Cold Water Pipe Line	30	FT	\$ -	\$ -	\$0	\$0	
251		3" Dia Cold Water Pipe Line	1629	FT	\$ -	\$ -	\$0	\$0	
252		4" Dia Cold Water Pipe Line	260	FT	\$ -	\$ -	\$0	\$0	
253		6" Dia Cold Water Pipe Line Under Ground	6	FT	\$ -	\$ -	\$0	\$0	
		COLD WATER PIPE LINE RISER							
254		3/4" Dia Cold Water Pipe Line	687	FT	\$ -	\$ -	\$0	\$0	
255		1" Dia Cold Water Pipe Line	203	FT	\$ -	\$ -	\$0	\$0	
256		1-1/2" Dia Cold Water Pipe Line	60	FT	\$ -	\$ -	\$0	\$0	
257		2" Dia Cold Water Pipe Line	81	FT	\$ -	\$ -	\$0	\$0	
258		2-1/2" Dia Cold Water Pipe Line	12	FT	\$ -	\$ -	\$0	\$0	
259		3" Dia Cold Water Pipe Line	39	FT	\$ -	\$ -	\$0	\$0	
260		4" Dia Cold Water Pipe Line	50	FT	\$ -	\$ -	\$0	\$0	
261		6" Dia Cold Water Pipe Line	5	FT	\$ -	\$ -	\$0	\$0	
		HOT WATER PIPE LINE							
262		1/2" Dia Hot Water Pipe Line	31	FT	\$ -	\$ -	\$0	\$0	
263		3/4" Dia Hot Water Pipe Line	221	FT	\$ -	\$ -	\$0	\$0	
264		1" Dia Hot Water Pipe Line	94	FT	\$ -	\$ -	\$0	\$0	
265		2" Dia Hot Water Pipe Line	459	FT	\$ -	\$ -	\$0	\$0	
		HOT WATER PIPE LINE RISER							
266		1/2" Dia Hot Water Pipe Line	36	FT	\$ -	\$ -	\$0	\$0	
267		3/4" Dia Hot Water Pipe Line	385	FT	\$ -	\$ -	\$0	\$0	
268		1" Dia Hot Water Return Pipe Line	61	FT	\$ -	\$ -	\$0	\$0	
269		2" Dia Hot Water Pipe Line	35	FT	\$ -	\$ -	\$0	\$0	
		HOT WATER RETURN PIPE LINE							
270		3/4" Dia Hot Water Return Pipe Line	184	FT	\$ -	\$ -	\$0	\$0	
		HOT WATER RETURN PIPE LINE RISER							
271		3/4" Dia Hot Water Return Pipe Line	25	FT	\$ -	\$ -	\$0	\$0	
		DOMESTIC FITTING							
272		1/2" Dia 90 Degree Elbow	12	EA	\$ -	\$ -	\$0	\$0	

ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LABOR	MATERIAL	UNIT COST	TOTAL COST	TRADE COST
273		1/2" Dia Tee	10	EA	\$ -	\$ -	\$0	\$0	POLYPROPYLENE ASTM F2389 SCHEDULE 80 PRESSURE RATED PP-RCT PIPING. ASTM F2389 SCHEDULE 80 PRESSURE RATED PP-RCT FITTINGS.
274		3/4"x1/2" Dia Reducer	17	EA	\$ -	\$ -	\$0	\$0	
275		3/4" Dia 90 Degree Elbow	226	EA	\$ -	\$ -	\$0	\$0	
276		3/4" Dia 45 Degree Elbow	2	EA	\$ -	\$ -	\$0	\$0	
277		3/4" Dia Tee	22	EA	\$ -	\$ -	\$0	\$0	
278		3/4"x1/2" Dia Tee	6	EA	\$ -	\$ -	\$0	\$0	
279		1" Dia 90 Degree Elbow	50	EA	\$ -	\$ -	\$0	\$0	
280		1"x3/4" Dia Reducer	6	EA	\$ -	\$ -	\$0	\$0	
281		1"x3/4" Dia Tee	12	EA	\$ -	\$ -	\$0	\$0	
282		1" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
283		1-1/2" Dia 90 Degree Elbow	11	EA	\$ -	\$ -	\$0	\$0	
284		1-1/2"x1" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
285		1-1/2"x3/4" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
286		1-1/2"x3/4" Dia Tee	3	EA	\$ -	\$ -	\$0	\$0	
287		1-1/2"x1" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
288		2" Dia 90 Degree Elbow	43	EA	\$ -	\$ -	\$0	\$0	
289		2" Dia 45 Degree Elbow	4	EA	\$ -	\$ -	\$0	\$0	
290		2"x3/4" Dia Reducer	3	EA	\$ -	\$ -	\$0	\$0	
291		2"x3/4" Dia Tee	16	EA	\$ -	\$ -	\$0	\$0	
292		2" Dia Tee	2	EA	\$ -	\$ -	\$0	\$0	
293		2"x1" Dia Tee	9	EA	\$ -	\$ -	\$0	\$0	
294		2"x1" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
295		2"x1/2" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
296		2-1/2"x3/4" Dia Tee	4	EA	\$ -	\$ -	\$0	\$0	
297		2-1/2" Dia 90 Degree Elbow	3	EA	\$ -	\$ -	\$0	\$0	
298		2-1/2"x3/4" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
299		2-1/2"x1" Dia Tee	9	EA	\$ -	\$ -	\$0	\$0	
300		3" Dia 90 Degree Elbow	20	EA	\$ -	\$ -	\$0	\$0	
301		3" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
302		3"x1" Dia Tee	12	EA	\$ -	\$ -	\$0	\$0	
303		3"x1-1/2" Dia Tee	2	EA	\$ -	\$ -	\$0	\$0	
304		3"x2" Dia Tee	4	EA	\$ -	\$ -	\$0	\$0	
305		3"x3/4" Dia Reducer	4	EA	\$ -	\$ -	\$0	\$0	
306		3"x3/4" Dia Tee	16	EA	\$ -	\$ -	\$0	\$0	
307		3"x1" Dia Tee	10	EA	\$ -	\$ -	\$0	\$0	
308		3"x2-1/2" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
309		4" Dia 90 Degree Elbow	10	EA	\$ -	\$ -	\$0	\$0	
310		4"x3/4" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
311		4"X3" Dia Tee	3	EA	\$ -	\$ -	\$0	\$0	
312		4"x1" Dia Tee	2	EA	\$ -	\$ -	\$0	\$0	
313		4"x3" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
314		4"x1-1/2" Dia Tee	2	EA	\$ -	\$ -	\$0	\$0	
315		6" Dia 90 Degree Elbow	1	EA	\$ -	\$ -	\$0	\$0	
316		6" Dia Wall Sleeve	1	EA	\$ -	\$ -	\$0	\$0	
317		2"x1" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
318		2"x1" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
319		2" Dia Union	1	EA	\$ -	\$ -	\$0	\$0	
320		3/4" Dia Union	1	EA	\$ -	\$ -	\$0	\$0	
		DOMESTIC VALVES							
321		1" Dia Check Valve	1	EA	\$ -	\$ -	\$0	\$0	
322		1" Dia Shutoff Valve	46	EA	\$ -	\$ -	\$0	\$0	
323		1-1/2" Dia Check Valve	1	EA	\$ -	\$ -	\$0	\$0	
324		1-1/2" Dia Shutoff Valve	7	EA	\$ -	\$ -	\$0	\$0	
325		1-1/4" Dia Shutoff Valve	3	EA	\$ -	\$ -	\$0	\$0	
326		2" Dia Check Valve	2	EA	\$ -	\$ -	\$0	\$0	
327		2" Dia Shutoff Valve	18	EA	\$ -	\$ -	\$0	\$0	
328		2" Dia Strtainer W/ Blowoff Valve	1	EA	\$ -	\$ -	\$0	\$0	
329		2-1/2" Dia Shutoff Valve	1	EA	\$ -	\$ -	\$0	\$0	
330		3" Dia Shutoff Valve	8	EA	\$ -	\$ -	\$0	\$0	
331		3/4" Dia Check Valve	1	EA	\$ -	\$ -	\$0	\$0	
332		3/4" Dia Shutoff Valve	105	EA	\$ -	\$ -	\$0	\$0	
333		3/4" Dia Strainer	4	EA	\$ -	\$ -	\$0	\$0	
334		3/4" Dia TMV	3	EA	\$ -	\$ -	\$0	\$0	
335		4" Dia Shutoff Valve	3	EA	\$ -	\$ -	\$0	\$0	
336		6" Dia Shutoff Valve	3	EA	\$ -	\$ -	\$0	\$0	
337		Air Vent	4	EA	\$ -	\$ -	\$0	\$0	
338		PRessure Gauge	6	EA	\$ -	\$ -	\$0	\$0	
339		Temperature Gauge	2	EA	\$ -	\$ -	\$0	\$0	
		DEIONIZED PIPE LINE							
340		1" Dia Pipe Line	45	FT	\$ -	\$ -	\$0	\$0	
341		1-1/2" Dia Pipe Line	27	FT	\$ -	\$ -	\$0	\$0	
342		2" Dia Pipe Line	555	FT	\$ -	\$ -	\$0	\$0	
		DEIONIZED PIPE LINE RISER							
343		1" Dia Pipe Line	5	FT	\$ -	\$ -	\$0	\$0	
344		1-1/2" Dia Pipe Line	10	FT	\$ -	\$ -	\$0	\$0	
345		2" Dia Pipe Line	15	FT	\$ -	\$ -	\$0	\$0	
		DEIONIZED PIPE LINE FITTING							
346		2"X1" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
347		1" Dia 90 Degree Elbow	4	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LABOR	MATERIAL	UNIT COST	TOTAL COST	TRADE COST
348		1-1/2" Dia 45 Degree Elbow	1	EA	\$ -	\$ -	\$0	\$0	
349		2"x1-1/2" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
350		2" Dia 90 Degree Elbow	5	EA	\$ -	\$ -	\$0	\$0	
351		1-1/2" Dia 90 Degree Elbow	1	EA	\$ -	\$ -	\$0	\$0	
352		1-1/2"x1" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
		SUPPORT FOR VENT PIPE							
353		Galv Threaded Hanger Rod With Lock Nut @ 5' O.C	100	EA	\$ -	\$ -	\$0	\$0	
354		1-1/2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	4	EA	\$ -	\$ -	\$0	\$0	
355		2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	85	EA	\$ -	\$ -	\$0	\$0	
355		3" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	5	EA	\$ -	\$ -	\$0	\$0	
356		4" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	5	EA	\$ -	\$ -	\$0	\$0	
357		1-1/2" Dia Riser Clamps @ 5' O.C	6	EA	\$ -	\$ -	\$0	\$0	
358		2" Dia Riser Clamps @ 5' O.C	232	EA	\$ -	\$ -	\$0	\$0	
358		3" Dia Riser Clamps @ 5' O.C	16	EA	\$ -	\$ -	\$0	\$0	
359		4" Dia Riser Clamps @ 5' O.C	4	EA	\$ -	\$ -	\$0	\$0	
		SUPPORT FOR STORM PIPE							
360		Galv Threaded Hanger Rod With Lock Nut @ 5' O.C	833	EA	\$ -	\$ -	\$0	\$0	
361		2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	1	EA	\$ -	\$ -	\$0	\$0	
362		6" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	696	EA	\$ -	\$ -	\$0	\$0	
362		8" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	62	EA	\$ -	\$ -	\$0	\$0	
363		10" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	47	EA	\$ -	\$ -	\$0	\$0	
364		12" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	28	EA	\$ -	\$ -	\$0	\$0	
365		2" Dia Riser Clamps @ 5' O.C	4	EA	\$ -	\$ -	\$0	\$0	
366		6" Dia Riser Clamps @ 5' O.C	140	EA	\$ -	\$ -	\$0	\$0	
366		8" Dia Riser Clamps @ 5' O.C	95	EA	\$ -	\$ -	\$0	\$0	
367		10" Dia Riser Clamps @ 5' O.C	1	EA	\$ -	\$ -	\$0	\$0	
368		12" Dia Riser Clamps @ 5' O.C	16	EA	\$ -	\$ -	\$0	\$0	
		SUPPORT FOR DRAIN PIPE							
369		Galv Threaded Hanger Rod With Lock Nut @ 5' O.C	338	EA	\$ -	\$ -	\$0	\$0	
370		2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	338	EA	\$ -	\$ -	\$0	\$0	
371		2" Dia Riser Clamps @ 5' O.C	76	EA	\$ -	\$ -	\$0	\$0	
		SUPPORT FOR DRAIN PIPE							
372		Galv Threaded Hanger Rod With Lock Nut @ 5' O.C	35	EA	\$ -	\$ -	\$0	\$0	
373		2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	35	EA	\$ -	\$ -	\$0	\$0	
374		2" Dia Riser Clamps @ 5' O.C	6	EA	\$ -	\$ -	\$0	\$0	
		SUPPORT FOR GAS PIPE							
375		Galv Threaded Hanger Rod With Lock Nut @ 5' O.C	291	EA	\$ -	\$ -	\$0	\$0	
376		3/4" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	84	EA	\$ -	\$ -	\$0	\$0	
377		1-1/2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	44	EA	\$ -	\$ -	\$0	\$0	
377		2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	54	EA	\$ -	\$ -	\$0	\$0	
377		3" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	68	EA	\$ -	\$ -	\$0	\$0	
378		4" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	26	EA	\$ -	\$ -	\$0	\$0	
379		5" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	15	EA	\$ -	\$ -	\$0	\$0	
380		3/4" Dia Riser Clamps @ 5' O.C	7	EA	\$ -	\$ -	\$0	\$0	
381		1-1/2" Dia Riser Clamps @ 5' O.C	7	EA	\$ -	\$ -	\$0	\$0	
381		2" Dia Riser Clamps @ 5' O.C	4	EA	\$ -	\$ -	\$0	\$0	
381		3" Dia Riser Clamps @ 5' O.C	2	EA	\$ -	\$ -	\$0	\$0	
382		5" Dia Riser Clamps @ 5' O.C	6	EA	\$ -	\$ -	\$0	\$0	
		SUPPORT FOR DOMESTIC PIPE							
383		Galv Threaded Hanger Rod With Lock Nut @ 5' O.C	460	EA	\$ -	\$ -	\$0	\$0	
384		1/2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	7	EA	\$ -	\$ -	\$0	\$0	
385		3/4" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	148	EA	\$ -	\$ -	\$0	\$0	
385		1" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	21	EA	\$ -	\$ -	\$0	\$0	
386		1-1/2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	34	EA	\$ -	\$ -	\$0	\$0	
385		2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	58	EA	\$ -	\$ -	\$0	\$0	
386		2-1/2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	3	EA	\$ -	\$ -	\$0	\$0	
385		3" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	163	EA	\$ -	\$ -	\$0	\$0	
387		4" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	26	EA	\$ -	\$ -	\$0	\$0	
388		1/2" Dia Riser Clamps @ 5' O.C	7	EA	\$ -	\$ -	\$0	\$0	
389		3/4" Dia Riser Clamps @ 5' O.C	219	EA	\$ -	\$ -	\$0	\$0	
390		1" Dia Riser Clamps @ 5' O.C	53	EA	\$ -	\$ -	\$0	\$0	
389		1-1/2" Dia Riser Clamps @ 5' O.C	12	EA	\$ -	\$ -	\$0	\$0	
389		2" Dia Riser Clamps @ 5' O.C	23	EA	\$ -	\$ -	\$0	\$0	
390		2-1/2" Dia Riser Clamps @ 5' O.C	2	EA	\$ -	\$ -	\$0	\$0	
389		3" Dia Riser Clamps @ 5' O.C	8	EA	\$ -	\$ -	\$0	\$0	
391		4" Dia Riser Clamps @ 5' O.C	10	EA	\$ -	\$ -	\$0	\$0	
392		6" Dia Riser Clamps @ 5' O.C	1	EA	\$ -	\$ -	\$0	\$0	
		SUPPORT FOR DEIONIZED PIPE							
393		Galv Threaded Hanger Rod With Lock Nut @ 5' O.C	125	EA	\$ -	\$ -	\$0	\$0	
394		1" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	9	EA	\$ -	\$ -	\$0	\$0	
395		1-1/2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	5	EA	\$ -	\$ -	\$0	\$0	
395		2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	111	EA	\$ -	\$ -	\$0	\$0	

 Dynamic Estimation Inc. Website: https://dynamicestimation.net/ Email: info@dynamicestimation.net Phone: 859-515-2045			PROJECT ID: A.Y. McDonald Bristol Manufacturing Facility SCOPE: HVAC & PLUMBING						
ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LABOR	MATERIAL	UNIT COST	TOTAL COST	TRADE COST
		COOL AIR PIPE LINE							Black Steel Sch 40 Threaded Seamless Pipe (1/2"-2")
457		2" Dia COOL Pipe Line	714	FT	\$ -	\$ -	\$0	\$0	
		COOL AIR PIPE LINE RISER							
458		1" Dia COOL Pipe Line	99	FT	\$ -	\$ -	\$0	\$0	
459		2" Dia COOL Pipe Line	6	FT	\$ -	\$ -	\$0	\$0	
		COOL AIR PIPE LINE FITTING							
460		2" Dia 90 Degree Elbow	14	EA	\$ -	\$ -	\$0	\$0	
461		2"X1" Dia Tee	32	EA	\$ -	\$ -	\$0	\$0	
462		2" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
		COOL AIR PIPE LINE VALVES							PVC Sch 40 Solid Core ASME D 1785 Pipe
463		1" Dia Isolation Valve	32	EA	\$ -	\$ -	\$0	\$0	
464		2" Dia Isolation Valve	2	EA	\$ -	\$ -	\$0	\$0	
		CONDENSATE PIPE LINE							
465		3/4" Dia Condensate Pipe Line	23	FT	\$ -	\$ -	\$0	\$0	
466		1-1/2" Dia Condensate Pipe Line	157	FT	\$ -	\$ -	\$0	\$0	
		CONDENSATE PIPE LINE FITTING							
467		1-1/2" Dia 90 Degree Elbow	7	EA	\$ -	\$ -	\$0	\$0	
468		1-1/2" Dia Tee	11	EA	\$ -	\$ -	\$0	\$0	
469		3/4" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
470		3/4" Dia 90 Degree Elbow	1	EA	\$ -	\$ -	\$0	\$0	
		SUPPORT FOR PLANT AIR PIPE							
471		Galv Threaded Hanger Rod With Lock Nut @ 10' O.C	344	EA	\$ -	\$ -	\$0	\$0	
472		1" Dia Clevis Hanger With Insulation & SS Steel Shield @ 10' O.C	13	EA	\$ -	\$ -	\$0	\$0	
473		1-1/2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 10' O.C	23	EA	\$ -	\$ -	\$0	\$0	
473		2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 10' O.C	168	EA	\$ -	\$ -	\$0	\$0	
473		2-1/2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 10' O.C	2	EA	\$ -	\$ -	\$0	\$0	
474		4" Dia Clevis Hanger With Insulation & SS Steel Shield @ 10' O.C	138	EA	\$ -	\$ -	\$0	\$0	
475		1" Dia Riser Clamps @ 5' O.C	177	EA	\$ -	\$ -	\$0	\$0	
476		1-1/2" Dia Riser Clamps @ 5' O.C	4	EA	\$ -	\$ -	\$0	\$0	
476		2" Dia Riser Clamps @ 5' O.C	24	EA	\$ -	\$ -	\$0	\$0	
476		4" Dia Riser Clamps @ 5' O.C	11	EA	\$ -	\$ -	\$0	\$0	
		SUPPORT FOR HIGH PRESSURE AIR PIPE							
477		Galv Threaded Hanger Rod With Lock Nut @ 10' O.C	180	EA	\$ -	\$ -	\$0	\$0	
478		1" Dia Clevis Hanger With Insulation & SS Steel Shield @ 10' O.C	1	EA	\$ -	\$ -	\$0	\$0	
479		1-1/2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 10' O.C	179	EA	\$ -	\$ -	\$0	\$0	
480		3/4" Dia Riser Clamps @ 5' O.C	56	EA	\$ -	\$ -	\$0	\$0	
481		1" Dia Riser Clamps @ 5' O.C	2	EA	\$ -	\$ -	\$0	\$0	
481		1-1/2" Dia Riser Clamps @ 5' O.C	113	EA	\$ -	\$ -	\$0	\$0	
		SUPPORT FOR COOL AIR PIPE							
482		Galv Threaded Hanger Rod With Lock Nut @ 10' O.C	72	EA	\$ -	\$ -	\$0	\$0	
483		1" Dia Clevis Hanger With Insulation & SS Steel Shield @ 10' O.C	72	EA	\$ -	\$ -	\$0	\$0	
484		1" Dia Riser Clamps @ 5' O.C	33	EA	\$ -	\$ -	\$0	\$0	
484		1-1/2" Dia Riser Clamps @ 5' O.C	2	EA	\$ -	\$ -	\$0	\$0	
		SUPPORT FOR CONDENSATE AIR PIPE							
485		Galv Threaded Hanger Rod With Lock Nut @ 5' O.C	36	EA	\$ -	\$ -	\$0	\$0	
486		3/4" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	5	EA	\$ -	\$ -	\$0	\$0	
487		1-1/2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	31	EA	\$ -	\$ -	\$0	\$0	
									Galv Sheet Metal G90, Seal All Duct Joint & Seams With Duct Sealer
		DUCT							
488		10"x8" Duct	38	FT	\$ -	\$ -	\$0	\$0	
489		10"x10" Duct	45	FT	\$ -	\$ -	\$0	\$0	
490		12"x10" Duct	85	FT	\$ -	\$ -	\$0	\$0	
491		12"x12" Duct	21	FT	\$ -	\$ -	\$0	\$0	
492		14"X10" Duct	52	FT	\$ -	\$ -	\$0	\$0	
493		14"x12" Duct	45	FT	\$ -	\$ -	\$0	\$0	
494		14"X14" Duct	59	FT	\$ -	\$ -	\$0	\$0	
495		16"x10" Duct	20	FT	\$ -	\$ -	\$0	\$0	
496		16"x12" Duct	57	FT	\$ -	\$ -	\$0	\$0	
497		16"x74" Duct	10	FT	\$ -	\$ -	\$0	\$0	
498		18"x18" Duct	14	FT	\$ -	\$ -	\$0	\$0	
499		20"x12" Duct	39	FT	\$ -	\$ -	\$0	\$0	
500		20"x14" Duct	11	FT	\$ -	\$ -	\$0	\$0	
501		20"x18" Duct	9	FT	\$ -	\$ -	\$0	\$0	
502		20"x64" Duct	10	FT	\$ -	\$ -	\$0	\$0	
503		22"x16" Duct	25	FT	\$ -	\$ -	\$0	\$0	
504		22"x18" Duct	14	FT	\$ -	\$ -	\$0	\$0	
505		22"x20" Duct	2	FT	\$ -	\$ -	\$0	\$0	
506		22"x22" Duct	4	FT	\$ -	\$ -	\$0	\$0	
507		24"x10" Duct	43	FT	\$ -	\$ -	\$0	\$0	
508		24"x16" Duct	47	FT	\$ -	\$ -	\$0	\$0	
509		24"x18" Duct	61	FT	\$ -	\$ -	\$0	\$0	
510		24"x24" Duct	29	FT	\$ -	\$ -	\$0	\$0	



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PROJECT ID:

A.Y. McDonald Bristol Manufacturing Facility

SCOPE:

HVAC & PLUMBING

ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LABOR	MATERIAL	UNIT COST	TOTAL COST	TRADE COST
511		26"X12" Duct	48	FT	\$ -	\$ -	\$0	\$0	Galv Sheet Metal G90, Seal All Duct Joint & Seams With Duct Sealer
512		26"x16" Duct	33	FT	\$ -	\$ -	\$0	\$0	
513		26"X18" Duct	54	FT	\$ -	\$ -	\$0	\$0	
514		30"x18" Duct	39	FT	\$ -	\$ -	\$0	\$0	
515		31"x31" Duct	6	FT	\$ -	\$ -	\$0	\$0	
516		34"x10" Duct	12	FT	\$ -	\$ -	\$0	\$0	
517		34"x34" Duct	12	FT	\$ -	\$ -	\$0	\$0	
518		36"x20" Duct	30	FT	\$ -	\$ -	\$0	\$0	
519		36"x30" Duct	35	FT	\$ -	\$ -	\$0	\$0	
520		36"x36" Duct	25	FT	\$ -	\$ -	\$0	\$0	
521		40"X40" Duct	80	FT	\$ -	\$ -	\$0	\$0	
522		42"x42" Duct	4	FT	\$ -	\$ -	\$0	\$0	
523		48"x20" Duct	10	FT	\$ -	\$ -	\$0	\$0	
524		48"x48" Duct	80	FT	\$ -	\$ -	\$0	\$0	
525		60"x60" Duct	14	FT	\$ -	\$ -	\$0	\$0	
526		34"x12" Duct	4	FT	\$ -	\$ -	\$0	\$0	
		ROUND DUCT							
527		4" Dia Duct	6	FT	\$ -	\$ -	\$0	\$0	
528		6" Dia Duct	127	FT	\$ -	\$ -	\$0	\$0	
529		8" Dia Duct	477	FT	\$ -	\$ -	\$0	\$0	
530		10" Dia Duct	375	FT	\$ -	\$ -	\$0	\$0	
531		12" Dia Duct	204	FT	\$ -	\$ -	\$0	\$0	
532		14" Dia Duct	123	FT	\$ -	\$ -	\$0	\$0	
533		16" Dia Duct	269	FT	\$ -	\$ -	\$0	\$0	
534		18" Dia Duct	208	FT	\$ -	\$ -	\$0	\$0	
535		20" Dia Duct	162	FT	\$ -	\$ -	\$0	\$0	
536		24" Dia Duct	40	FT	\$ -	\$ -	\$0	\$0	
537		26" Dia Duct	16	FT	\$ -	\$ -	\$0	\$0	
538		28" Dia Duct	9	FT	\$ -	\$ -	\$0	\$0	
		FLEXIBLE DUCT							
539		6" Dia Flexible Duct Riser	56	FT	\$ -	\$ -	\$0	\$0	
540		8" Dia Flexible Duct Riser	48	FT	\$ -	\$ -	\$0	\$0	
541		10" Dia Flexible Duct Riser	112	FT	\$ -	\$ -	\$0	\$0	
542		12" Dia Flexible Duct Riser	120	FT	\$ -	\$ -	\$0	\$0	
543		14" Dia Flexible Duct Riser	64	FT	\$ -	\$ -	\$0	\$0	
		MECHANICAL EQUIPMENT							
544		AIR COOLED AIR COMPRESSOR ACOMP-1 MFR: GARDNER DENVER MODEL: L110RS CFM 8758	1	EA	\$ -	\$ -	\$0	\$0	
545		Compressed Air Filter CAF-1 MFR: GARDNER DENVER MODEL: FIL40	1	EA	\$ -	\$ -	\$0	\$0	
546		Compressed Air Filter CAF-2 MFR: ATLAS COPCO MODEL: H SERIES	2	EA	\$ -	\$ -	\$0	\$0	
547		COMPRESSED AIR GAUGE CAPG-1 MFR: ASHCROFT MODEL: 1259	1	EA	\$ -	\$ -	\$0	\$0	
548		COMPRESSED AIR GAUGE CAPG-2 MFR: ASHCROFT MODEL: 1259	1	EA	\$ -	\$ -	\$0	\$0	
549		COMPRESSED AIR PRESSURE REGULATOR CAPR-1 MFR: PARKER PEAK FLOWRATE 2600 AVERAGE FLOWRATE: 2200	1	EA	\$ -	\$ -	\$0	\$0	
550		COMPRESSED AIR PRESSURE REGULATOR CAPR-2 MFR: PARKER PEAK FLOWRATE 68 AVERAGE FLOWRATE: 51	1	EA	\$ -	\$ -	\$0	\$0	
551		COMPRESSED AIR TRANSMITTER CAPT-1 MFR: ENDRESS + HAUSER MODEL: CERABAR PMP71	1	EA	\$ -	\$ -	\$0	\$0	
552		COMPRESSED AIR TRANSMITTER CAPT-2 MFR: ENDRESS + HAUSER MODEL: CERABAR PMP71	1	EA	\$ -	\$ -	\$0	\$0	
553		COMPRESSED AIR RECEIVER CAR-1 MFR: SAMUEL MODEL: A10132 CAPACITY: 1060 GAL	1	EA	\$ -	\$ -	\$0	\$0	
554		COMPRESSED AIR RECEIVER CAR-2 MFR: SAMUEL MODEL: A10132 CAPACITY: 1060 GAL	1	EA	\$ -	\$ -	\$0	\$0	
555		COMPRESSED AIR RECEIVER CAR-3 MFR: SAMUEL MODEL: A10132 CAPACITY: 1060 GAL	1	EA	\$ -	\$ -	\$0	\$0	



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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LABOR	MATERIAL	UNIT COST	TOTAL COST	TRADE COST
556		COMPRESSED AIR RECEIVER CAR-4 MFR: COMPRESSED AIR SYSTEM MODEL: 302466 CAPACITY: 1550 GAL	1	EA	\$ -	\$ -	\$0	\$0	
557		COMPRESSED AIR RECEIVER CAR-5 MFR: COMPRESSED AIR SYSTEM MODEL: 302500 CAPACITY: 2560 GAL	1	EA	\$ -	\$ -	\$0	\$0	
558		COMPRESSED AIR RECEIVER CAR-6 MFR: COMPRESSED AIR SYSTEM MODEL: 302429 CAPACITY: 240 GAL	1	EA	\$ -	\$ -	\$0	\$0	
559		COMPRESSED AIR RECEIVER CAR-7 MFR: COMPRESSED AIR SYSTEM MODEL: 302429 CAPACITY: 240 GAL	1	EA	\$ -	\$ -	\$0	\$0	
560		FLOW METER FM-1 MFR: CDI MODEL: 5400	1	EA	\$ -	\$ -	\$0	\$0	
561		MIST ELIMINATOR ME-1 MFR: GARDNER DENVER MODEL: XGME2400F CFM 2400	1	EA	\$ -	\$ -	\$0	\$0	
562		AUTOMATIC CONDENSATE DRAIN ACT-1 MFR: CONTROL DEVICES MODEL: WATERHOG CONNECTION SIZE: 1/2"	7	EA	\$ -	\$ -	\$0	\$0	
563		AUTOMATIC CONDENSATE DRAIN ACT-2 MFR: AIR SYSTEM PRODUCTS MODEL: RD750 CONNECTION SIZE: 3/4"	3	EA	\$ -	\$ -	\$0	\$0	
564		Control Damper DMPR-1 MFR: GREENHECK MODEL: VCD-23 CFM 8760	2	EA	\$ -	\$ -	\$0	\$0	
565		Control Damper DMPR-1 MFR: GREENHECK MODEL: VCD-23 CFM 6000	2	EA	\$ -	\$ -	\$0	\$0	
566		Control Damper DMPR-1 MFR: GREENHECK MODEL: VCD-23 CFM 11800	2	EA	\$ -	\$ -	\$0	\$0	
		DIFFUSER							
567		Return Grill MFG: Titus Model: 50F CFM: 75	1	EA	\$ -	\$ -	\$0	\$0	
568		Return Grill MFG: Titus Model: 50F CFM: 200	1	EA	\$ -	\$ -	\$0	\$0	
569		Return Grill MFG: Titus Model: 50F CFM: 250	1	EA	\$ -	\$ -	\$0	\$0	
570		Return Grill MFG: Titus Model: 50F CFM: 300	4	EA	\$ -	\$ -	\$0	\$0	
571		Return Grill MFG: Titus Model: 50F CFM: 350	1	EA	\$ -	\$ -	\$0	\$0	
572		Return Grill MFG: Titus Model: 50F	1	EA	\$ -	\$ -	\$0	\$0	
573		Return Grill MFG: Titus Model: 50F CFM: 50	5	EA	\$ -	\$ -	\$0	\$0	
574		Return Grill MFG: Titus Model: 50F CFM: 60	1	EA	\$ -	\$ -	\$0	\$0	
575		Return Grill MFG: Titus Model: 50F CFM: 70	1	EA	\$ -	\$ -	\$0	\$0	
576		Return Grill MFG: Titus Model: 50F CFM: 60	1	EA	\$ -	\$ -	\$0	\$0	

ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LABOR	MATERIAL	UNIT COST	TOTAL COST	TRADE COST
577		Return Grill MFG: Titus Model: 50F CFM: 110	1	EA	\$ -	\$ -	\$0	\$0	
578		Return Grill MFG: Titus Model: 50F CFM: 125	1	EA	\$ -	\$ -	\$0	\$0	
579		Return Grill MFG: Titus Model: 50F CFM: 140	8	EA	\$ -	\$ -	\$0	\$0	
580		Return Grill MFG: Titus Model: 50F CFM: 170	1	EA	\$ -	\$ -	\$0	\$0	
581		Return Grill MFG: Titus Model: 50F CFM: 290	1	EA	\$ -	\$ -	\$0	\$0	
582		Return Grill MFG: Titus Model: 50F CFM: 320	1	EA	\$ -	\$ -	\$0	\$0	
583		Return Grill MFG: Titus Model: 50F CFM: 325	1	EA	\$ -	\$ -	\$0	\$0	
584		Return Grill MFG: Titus Model: 50F CFM: 330	1	EA	\$ -	\$ -	\$0	\$0	
585		Return Grill MFG: Titus Model: 50F CFM: 365	1	EA	\$ -	\$ -	\$0	\$0	
586		Return Grill MFG: Titus Model: 50F CFM: 390	1	EA	\$ -	\$ -	\$0	\$0	
587		Return Grill MFG: Titus Model: 50F CFM: 480	1	EA	\$ -	\$ -	\$0	\$0	
588		Return Grill MFG: Titus Model: 50F CFM: 690	1	EA	\$ -	\$ -	\$0	\$0	
589		Return Grill MFG: Titus Model: 50F CFM: 730	1	EA	\$ -	\$ -	\$0	\$0	
590		Return Grill MFG: Titus Model: 50F CFM: 830	1	EA	\$ -	\$ -	\$0	\$0	
591		Return Grill MFG: Titus Model: 50F CFM: 970	1	EA	\$ -	\$ -	\$0	\$0	
592		Return Grill MFG: Titus Model: 50F CFM: 975	1	EA	\$ -	\$ -	\$0	\$0	
593		Return Grill MFG: Titus Model: 50F CFM: 1350	2	EA	\$ -	\$ -	\$0	\$0	
594		Return Grill MFG: Titus Model: 50F CFM: 1540	2	EA	\$ -	\$ -	\$0	\$0	
595		Return Grill MFG: Titus Model: 50F CFM: 2210	1	EA	\$ -	\$ -	\$0	\$0	
596		Return Grill MFG: Titus Model: 50F CFM: 2500	2	EA	\$ -	\$ -	\$0	\$0	
597		Return Grill MFG: Titus Model: 50F CFM: 565	1	EA	\$ -	\$ -	\$0	\$0	

ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LABOR	MATERIAL	UNIT COST	TOTAL COST	TRADE COST
598		Return Grill MFG: Titus Model: 50F CFM: 900	1	EA	\$ -	\$ -	\$0	\$0	
599		Supply Diffuser MFG: Kees Model: DBD-66 CFM: 365	2	EA	\$ -	\$ -	\$0	\$0	
600		Supply Diffuser MFG: Kees Model: DBD-66	3	EA	\$ -	\$ -	\$0	\$0	
601		Supply Diffuser MFG: Kees Model: DBD-44 CFM: 14760	1	EA	\$ -	\$ -	\$0	\$0	
602		Supply Diffuser MFG: Kees Model: DBD-44 CFM: 23600	1	EA	\$ -	\$ -	\$0	\$0	
603		Supply Diffuser MFG: Titus Model: TMS CFM: 20	2	EA	\$ -	\$ -	\$0	\$0	
604		Supply Diffuser MFG: Titus Model: TMS CFM: 30	3	EA	\$ -	\$ -	\$0	\$0	
605		Supply Diffuser MFG: Titus Model: TMS CFM: 60	1	EA	\$ -	\$ -	\$0	\$0	
606		Supply Diffuser MFG: Titus Model: TMS CFM: 70	2	EA	\$ -	\$ -	\$0	\$0	
607		Supply Diffuser MFG: Titus Model: TMS CFM: 85	1	EA	\$ -	\$ -	\$0	\$0	
608		Supply Diffuser MFG: Titus Model: TMS CFM: 125	2	EA	\$ -	\$ -	\$0	\$0	
609		Supply Diffuser MFG: Titus Model: TMS CFM: 140	8	EA	\$ -	\$ -	\$0	\$0	
610		Supply Diffuser MFG: Titus Model: TMS CFM: 170	1	EA	\$ -	\$ -	\$0	\$0	
611		Supply Diffuser MFG: Titus Model: TMS CFM: 195	1	EA	\$ -	\$ -	\$0	\$0	
612		Supply Diffuser MFG: Titus Model: TMS CFM: 225	2	EA	\$ -	\$ -	\$0	\$0	
613		Supply Diffuser MFG: Titus Model: TMS CFM: 250	1	EA	\$ -	\$ -	\$0	\$0	
614		Supply Diffuser MFG: Titus Model: TMS CFM: 260	2	EA	\$ -	\$ -	\$0	\$0	
615		Supply Diffuser MFG: Titus Model: TMS CFM: 290	2	EA	\$ -	\$ -	\$0	\$0	
616		Supply Diffuser MFG: Titus Model: TMS CFM: 325	3	EA	\$ -	\$ -	\$0	\$0	
617		Supply Diffuser MFG: Titus Model: TMS CFM: 330	1	EA	\$ -	\$ -	\$0	\$0	
618		Supply Diffuser MFG: Titus Model: TMS CFM: 345	2	EA	\$ -	\$ -	\$0	\$0	

ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LABOR	MATERIAL	UNIT COST	TOTAL COST	TRADE COST
619		Supply Diffuser MFG: Titus Model: TMS CFM: 365	1	EA	\$ -	\$ -	\$0	\$0	
620		Supply Diffuser MFG: Titus Model: TMS CFM: 370	1	EA	\$ -	\$ -	\$0	\$0	
621		Supply Diffuser MFG: Titus Model: TMS CFM: 375	1	EA	\$ -	\$ -	\$0	\$0	
622		Supply Diffuser MFG: Titus Model: TMS CFM: 415	2	EA	\$ -	\$ -	\$0	\$0	
623		Supply Diffuser MFG: Titus Model: TMS CFM: 445	1	EA	\$ -	\$ -	\$0	\$0	
624		Supply Diffuser MFG: Titus Model: TMS CFM: 450	5	EA	\$ -	\$ -	\$0	\$0	
625		Supply Diffuser MFG: Titus Model: TMS CFM: 465	2	EA	\$ -	\$ -	\$0	\$0	
626		Supply Diffuser MFG: Titus Model: TMS CFM: 480	1	EA	\$ -	\$ -	\$0	\$0	
627		Supply Diffuser MFG: Titus Model: TMS CFM: 485	2	EA	\$ -	\$ -	\$0	\$0	
628		Supply Diffuser MFG: Titus Model: TMS CFM: 615	6	EA	\$ -	\$ -	\$0	\$0	
629		Supply Diffuser MFG: Titus Model: TMS CFM: 740	3	EA	\$ -	\$ -	\$0	\$0	
630		Supply Diffuser MFG: Titus Model: 111RL CFM: 450	2	EA	\$ -	\$ -	\$0	\$0	
631		Supply Diffuser MFG: Titus Model: 111RL CFM: 500	8	EA	\$ -	\$ -	\$0	\$0	
632		Supply Diffuser MFG: Titus Model: 111RL CFM: 565	1	EA	\$ -	\$ -	\$0	\$0	
633		Supply Diffuser MFG: Price Model: DFE CFM: 1115	9	EA	\$ -	\$ -	\$0	\$0	
		AIR TERMINAL BOX							
634		MFG: Titus Model: Desv MAX. CFM: 3075	1	EA	\$ -	\$ -	\$0	\$0	
635		MFG: Titus Model: Desv MAX. CFM: 830	1	EA	\$ -	\$ -	\$0	\$0	
636		MFG: Titus Model: Desv MAX. CFM: 730	1	EA	\$ -	\$ -	\$0	\$0	
637		MFG: Titus Model: Desv MAX. CFM: 730	1	EA	\$ -	\$ -	\$0	\$0	
638		MFG: Titus Model: Desv MAX. CFM: 480	1	EA	\$ -	\$ -	\$0	\$0	
639		MFG: Titus Model: Desv MAX. CFM: 975	1	EA	\$ -	\$ -	\$0	\$0	
640		MFG: Titus Model: Desv MAX. CFM: 140	1	EA	\$ -	\$ -	\$0	\$0	

ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LABOR	MATERIAL	UNIT COST	TOTAL COST	TRADE COST
641		MFG: Titus Model: Desv MAX. CFM: 125	1	EA	\$ -	\$ -	\$0	\$0	
642		MFG: Titus Model: Desv MAX. CFM: 170	1	EA	\$ -	\$ -	\$0	\$0	
643		MFG: Titus Model: Desv MAX. CFM: 965	1	EA	\$ -	\$ -	\$0	\$0	
644		MFG: Titus Model: Desv MAX. CFM: 85	1	EA	\$ -	\$ -	\$0	\$0	
645		MFG: Titus Model: Desv MAX. CFM: 970	1	EA	\$ -	\$ -	\$0	\$0	
646		MFG: Titus Model: Desv MAX. CFM: 2000	1	EA	\$ -	\$ -	\$0	\$0	
647		MFG: Titus Model: Desv MAX. CFM: 2930	1	EA	\$ -	\$ -	\$0	\$0	
648		MFG: Titus Model: Desv MAX. CFM: 140	1	EA	\$ -	\$ -	\$0	\$0	
649		MFG: Titus Model: Desv MAX. CFM: 140	1	EA	\$ -	\$ -	\$0	\$0	
650		MFG: Titus Model: Desv MAX. CFM: 140	1	EA	\$ -	\$ -	\$0	\$0	
651		MFG: Titus Model: Desv MAX. CFM: 140	1	EA	\$ -	\$ -	\$0	\$0	
652		MFG: Titus Model: Desv MAX. CFM: 140	1	EA	\$ -	\$ -	\$0	\$0	
653		MFG: Titus Model: Desv MAX. CFM: 140	1	EA	\$ -	\$ -	\$0	\$0	
654		MFG: Titus Model: Desv MAX. CFM: 140	1	EA	\$ -	\$ -	\$0	\$0	
655		MFG: Titus Model: Desv MAX. CFM: 250	1	EA	\$ -	\$ -	\$0	\$0	
656		MFG: Titus Model: Desv MAX. CFM: 690	1	EA	\$ -	\$ -	\$0	\$0	
657		MFG: Titus Model: Desv MAX. CFM: 2700	1	EA	\$ -	\$ -	\$0	\$0	
658		MFG: Titus Model: Desv MAX. CFM: 1465	1	EA	\$ -	\$ -	\$0	\$0	
		EXHAUST FAN							
659		Exhaust Fan MFG: Greenheck Model: CUBE-220 CFM: 6000	3	EA	\$ -	\$ -	\$0	\$0	
660		Exhaust Fan MFG: Greenheck Model: CUBE-300 CFM: 8760	1	EA	\$ -	\$ -	\$0	\$0	
661		Exhaust Fan MFG: Greenheck Model: CUBE-300 CFM: 11800	1	EA	\$ -	\$ -	\$0	\$0	
662		Exhaust Fan MFG: Greenheck Model: CUE-100HP-VG CFM: 420	1	EA	\$ -	\$ -	\$0	\$0	
663		Exhaust Fan MFG: Greenheck Model: CUE-100HP-VG CFM: 675	1	EA	\$ -	\$ -	\$0	\$0	
664		Exhaust Fan MFG: Greenheck Model: CUE-100HP-VG CFM: 520	1	EA	\$ -	\$ -	\$0	\$0	
665		Exhaust Fan MFG: Greenheck Model: CSP-A390-VG CFM: 60	2	EA	\$ -	\$ -	\$0	\$0	



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PROJECT ID:

A.Y. McDonald Bristol Manufacturing Facility

SCOPE:

HVAC & PLUMBING

ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LABOR	MATERIAL	UNIT COST	TOTAL COST	TRADE COST
666		Exhaust Fan MFG: Greenheck Model: CUE-140-VG CFM: 1100	1	EA	\$ -	\$ -	\$0	\$0	
		LOUVER							
667		MFG: Greenheck Model: ESD-603 CFM: 8760	1	EA	\$ -	\$ -	\$0	\$0	
668		MFG: Greenheck Model: ESD-603 CFM: 6000	1	EA	\$ -	\$ -	\$0	\$0	
669		MFG: Greenheck Model: ESD-603 CFM: 11800	1	EA	\$ -	\$ -	\$0	\$0	
		MECHANICAL EQUIPMENT							
670		Makeup Air Unit MFG: Trane Model: Horizon OAN Model No: OAND360E4 CFM: 10000	1	EA	\$ -	\$ -	\$0	\$0	
671		Makeup Air Unit MFG: Greenheck Model: DXG Model No: DXG-P225-H35-D3 CFM: 23600	1	EA	\$ -	\$ -	\$0	\$0	
672		Makeup Air Unit MFG: Greenheck Model: MSX Model No: MSX-P225-H35-D1 CFM: 14760	1	EA	\$ -	\$ -	\$0	\$0	
673		Roof Top Unit MFG: Trane Model: IPAK CFM: 20000	6	EA	\$ -	\$ -	\$0	\$0	
674		Roof Top Unit MFG: Trane Model: IPAK Model No: RF06041242 CFM: 20000	2	EA	\$ -	\$ -	\$0	\$0	
675		Roof Top Unit MFG: Trane Model: Precedent Model No: YSK072A4S0M CFM: 2200	1	EA	\$ -	\$ -	\$0	\$0	
676		Roof Top Unit MFG: Trane Model: Precedent Model No: YSK240A4S0M CFM: 7255	1	EA	\$ -	\$ -	\$0	\$0	
677		Roof Top Unit MFG: Trane Model: Precedent Model No: YSK300A4S0M CFM: 8415	1	EA	\$ -	\$ -	\$0	\$0	
678		Roof Top Unit MFG: Trane Model: Precedent Model No: YSK150A4S0M CFM: 4500	1	EA	\$ -	\$ -	\$0	\$0	
679		Roof Top Unit MFG: Trane Model: Precedent Model No: YSK180A4S0M CFM: 4620	1	EA	\$ -	\$ -	\$0	\$0	
680		Air Cooled Split System MFG: Trane Condenser Model No: NTXSKS18A112AA Evaporator Model No: NTXDKS18A112AA	2	EA	\$ -	\$ -	\$0	\$0	
681		Air Cooled Split System MFG: Trane Condenser Model No: NTXWST36C112AA Evaporator Model No: NTXSST36C112AA	2	EA	\$ -	\$ -	\$0	\$0	
682		Unit Heater MFG: Reznor Model: UDXC Size: 30x27x14	5	EA	\$ -	\$ -	\$0	\$0	
		MECHANICAL RUGHE FIXTURE							
683		4" Dia 90 Degree Offset	2	EA	\$ -	\$ -	\$0	\$0	
684		6" Dia 90 Degree Offset	3	EA	\$ -	\$ -	\$0	\$0	
685		8" Dia 45 Degree Offset	10	EA	\$ -	\$ -	\$0	\$0	
686		8" Dia 90 Degree Offset	16	EA	\$ -	\$ -	\$0	\$0	
687		10" Dia 45 Degree Offset	12	EA	\$ -	\$ -	\$0	\$0	

