




PROJECT															
ADDRESS												E-mail: estimate@msbestimating.com			
Date of Submission		1/11/2023										Contact: (305)-813-0053			
Date of plans		4/12/2021													
TOTAL BASE BID		\$ -													
SR #	DWG. NO.	DETAIL NO.	CSI NO.	DESCRIPTION	QTY.	WASTE	QTY. W/ WASTE	UNIT	LABOR COST	MATERIAL COST	TOTAL LABOR	TOTAL MATERIAL	TOTAL UNIT COST	TOTAL COST	SUB TOTAL
<b>22 00 00</b>				<b>PLUMBING</b>											
				<b>DOMESTIC WATER SYSTEM</b>											
				Piping Material: Aqua Pex Wirsbo with Pro Pex Fittings.											
				<b>UNDERGROUND</b>											
				<b>HORIZONTAL PIPING</b>											
1	P1.00			1/2" Cold Water Line - Underground	8	10%	9	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	P1.00			3/4" Cold Water Line - Underground	12	10%	13	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3	P1.00			1-1/2" Cold Water Line - Underground	3	10%	3	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4	P1.00			1/2" Hot Water Line - Underground	8	10%	9	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5	P1.00			3/4" Hot Water Line - Underground	12	10%	13	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
				<b>RISERS</b>											
6	P2.00			1/2" Cold Water Riser - Underground	12	10%	13	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7	P2.00			3/4" Cold Water Riser - Underground	3	10%	3	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8	P2.00			1-1/2" Cold Water Riser - Underground	3	10%	3	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9	P2.00			1/2" Hot Water Riser - Underground	12	10%	13	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10	P2.00			3/4" Hot Water Riser - Underground	3	10%	3	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
				<b>CONNECTIONS</b>											
11	P1.00			Elbow 1/2"-1/2"	6	0%	6	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12	P1.00			Elbow 3/4"-3/4"	2	0%	2	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13	P1.00			Elbow 1 1/2"-1 1/2"	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
14	P1.00			Tee 3/4"-1/2"-1/2"	2	0%	2	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
				<b>ABOVEGROUND</b>											
				<b>HORIZONTAL PIPING</b>											
15	P1.00			1/2" Cold Water Line	126	10%	139	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	P1.00			3/4" Cold Water Line	132	10%	145	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
17	P1.00			1" Cold Water Line	23	10%	25	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
18	P1.00			1-1/2" Cold Water Line	13	10%	15	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
19	P1.00			1/2" Hot Water Line	60	10%	65	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
20	P1.00			3/4" Hot Water Line	143	10%	158	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
				<b>RISERS</b>											
21	P2.00			1/2" Cold Water Riser	200	10%	220	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
22	P2.00			3/4" Cold Water Riser	18	10%	20	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
23	P2.00			1-1/2" Cold Water Riser	10	10%	11	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
24	P2.00			1/2" Hot Water Riser	117	10%	129	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
25	P2.00			3/4" Hot Water Riser	8	10%	9	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
				<b>INSULATION</b>											
26	P1.00-P2.00			R-3 Type Insulation Hot And Cold Water Pipes.	850	10%	935	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
				<b>CONNECTIONS</b>											
27	P1.00			Elbow 1/2"-1/2"	98	0%	98	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28	P1.00			Elbow 3/4"-3/4"	5	0%	5	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
29	P1.00			Tee 1/2"-1/2"-1/2"	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
30	P1.00			Tee 3/4"-1/2"-1/2"	6	0%	6	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
31	P1.00			Tee 3/4"-3/4"-1/2"	26	0%	26	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
32	P1.00			Tee 3/4"-3/4"-3/4"	4	0%	4	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
33	P1.00			Tee 1 1/2"-1 1/2"-1/2"	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
34	P1.00			Tee 1 1/2"-1"-3/4"	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
35	P1.00			Tee 1"-3/4"-1/2"	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

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TOTAL BASE BID		\$ -													
SR #	DWG. NO.	DETAIL NO.	CSI NO.	DESCRIPTION	QTY.	WASTE	QTY. W/ WASTE	UNIT	LABOR COST	MATERIAL COST	TOTAL LABOR	TOTAL MATERIAL	TOTAL UNIT COST	TOTAL COST	SUB TOTAL
<b>FIXTURES</b>															
36	P2.00			1/2" Shutoff Valve	44	0%	44	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
37	P2.00			3/4" Shutoff Valve	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
38	P2.00			1-1/2" Shutoff Valve	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
39	P2.00			3/4" Drain Valve	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
40	P2.00			3/4" Temperature & Pressure Relief Valve	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
41	P2.00			1/2" Hose Bib	4	0%	4	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
42	P2.00			1/2" Thermostatic Mixing Valve	13	0%	13	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
43	P2.00	P2.00		Water Heater Mfr./Model: American PG-10-50-199-3NV	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>SLEEVES</b>															
44	P1.00-P2.00			Water Sleeve Through Floor	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
45	P1.00-P2.00			Water Sleeve Through Wall	18	0%	18	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Domestic Water Sub Total</b>											\$ -	\$ -		\$ -	
<b>SANITARY/WASTE SYSTEM</b>															
Piping Material: Not Specified On Plans Assumptions: Cast Iron Pipe Single Hub Service Weight, Lead and Oakum Joints															
<b>UNDERGROUND</b>															
<b>HORIZONTAL PIPING</b>															
46	P3.00			2" Sanitary Line - Underground	98	10%	107	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
47	P3.00			3" Sanitary Line - Underground	243	10%	267	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
48	P3.00			4" Sanitary Line - Underground	4	10%	5	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
49	P3.00			2" Vent Line - Underground	2	10%	2	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>RISERS</b>															
50	P4.00			2" Sanitary Riser - Underground	51	10%	56	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
51	P4.00			3" Sanitary Riser - Underground	18	10%	20	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
52	P4.00			2" Vent Riser - Underground	39	10%	43	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>CONNECTIONS</b>															
53	P3.00			Reducer 4"-3"	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
54	P3.00			Elbow 2"-2"	35	0%	35	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
55	P3.00			Elbow 3"-3"	24	0%	24	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
56	P3.00			Tee 2"-2"-2"	4	0%	4	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
57	P3.00			Tee 3"-3"-2"	7	0%	7	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
58	P3.00			Wye 3"-2"-2"	2	0%	2	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
59	P3.00			Wye 3"-3"-2"	12	0%	12	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
60	P3.00			Wye 3"-3"-3"	8	0%	8	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>ABOVEGROUND</b>															
<b>HORIZONTAL PIPING</b>															
61	P3.00			2" Sanitary Line	6	10%	7	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
62	P3.00			2" Vent Line	101	10%	111	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>RISERS</b>															
63	P4.00			2" Sanitary Riser	33	10%	36	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
64	P4.00			2" Vent Riser	220	10%	242	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>CONNECTIONS</b>															
65	P3.00			Elbow 2"-2"	34	0%	34	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

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TOTAL BASE BID		\$ -													
SR #	DWG. NO.	DETAIL NO.	CSI NO.	DESCRIPTION	QTY.	WASTE	QTY. W/ WASTE	UNIT	LABOR COST	MATERIAL COST	TOTAL LABOR	TOTAL MATERIAL	TOTAL UNIT COST	TOTAL COST	SUB TOTAL
66	P3.00			Tee 2"-2"-2"	23	0%	23	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
				<b>FIXTURES</b>											
67	P4.00			2" Cheater Vent	2	0%	2	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
68	P4.00			2" CO: Clean Out	11	0%	11	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
69	P4.00			2" VTR: Vent Through Roof	9	0%	9	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
70	P4.00			Lavatory <b>Assumed Specs:</b> American Standard: 0315000.020	7	0%	7	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
71	P4.00			Water Closet <b>Assumed Specs:</b> American Standard:2989101.02	6	0%	6	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
72	P4.00			Kitchen Sink <b>Assumed Specs:</b> Kraus KHU102-33	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
73	P4.00			Clothes Washer Box <b>Assumed Specs:</b> EFIELD Washing Machine Outlet Box with Center Drain 1/2-inch Push-Fit White, with Stainless Water Hammer Arrestor	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
74	P4.00			Shower <b>Assumed Specs:</b> American Standard 9038804.002 Spectra Versa Shower System	5	0%	5	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
75	P4.00			Bathtub <b>Assumed Specs:</b> American Standard 2973202.011 Studio Integral Apron Bathtub Left Drain 60 in. x 30 in. in Arctic White	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
				<b>SLEEVES</b>											
76	P3.00			Sanitary Sleeve Through Floor	23	0%	23	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
77	P4.00			Sanitary Sleeve Through Wall	32	0%	32	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
				<b>Sanitary/Waste Sub Total</b>							\$ -	\$ -			\$ -
				<b>GAS SYSTEM</b>											
				<b>Piping Material:</b> Not Specified On Plans <b>Assumptions:</b> Black Iron Pipe											
				<b>UNDERGROUND</b>											
				<b>HORIZONTAL PIPING</b>											
78	G1.00			2-1/2" Gas Line - Underground	2	10%	2	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
				<b>RISERS</b>											
79	G2.00			2-1/2" Gas Riser - Underground	3	10%	3	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
				<b>CONNECTIONS</b>											
80	G1.00			Elbow 2 1/2"-2 1/2"	2	0%	2	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
				<b>ABOVEGROUND</b>											
				<b>HORIZONTAL PIPING</b>											
81	G1.00			1/2" Gas Line	1	10%	1	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
82	G1.00			3/4" Gas Line	1	10%	2	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
83	G1.00			1" Gas Line	1	10%	1	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
84	G1.00			1-1/2" Gas Line	1	10%	1	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
85	G1.00			2" Gas Line	1	10%	1	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
86	G1.00			2-1/2" Gas Line	169	10%	186	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
				<b>RISERS</b>											

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TOTAL BASE BID		\$ -														
SR #	DWG. NO.	DETAIL NO.	CSI NO.	DESCRIPTION	QTY.	WASTE	QTY. W/ WASTE	UNIT	LABOR COST	MATERIAL COST	TOTAL LABOR	TOTAL MATERIAL	TOTAL UNIT COST	TOTAL COST	SUB TOTAL	
87	G2.00			1/2" Gas Riser	8	10%	9	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
88	G2.00			3/4" Gas Riser	14	10%	15	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
89	G2.00			1" Gas Riser	8	10%	9	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
90	G2.00			1-1/2" Gas Riser	8	10%	9	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
91	G2.00			2" Gas Riser	8	10%	9	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
92	G2.00			2-1/2" Gas Riser	10	10%	11	LF	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
<b>CONNECTIONS</b>																
93	G1.00			Elbow 1/2"-1/2"	2	0%	2	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
94	G1.00			Elbow 3/4"-3/4"	3	0%	3	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
95	G1.00			Elbow 1 1/2"-1 1/2"	2	0%	2	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
96	G1.00			Elbow 1"-1"	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
97	G1.00			Elbow 2 1/2"-3/4"	2	0%	2	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
98	G1.00			Elbow 2 1/2"-2"	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
99	G1.00			Elbow 2 1/2"-2 1/2"	5	0%	5	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
100	G1.00			Elbow 2"-2"	2	0%	2	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
101	G1.00			Tee 2 1/2"-2 1/2"-1/2"	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
102	G1.00			Tee 2 1/2"-2 1/2"-3/4"	2	0%	2	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
103	G1.00			Tee 2 1/2"-2 1/2"-1"	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
104	G1.00			Tee 2 1/2"-2 1/2"-1 1/2"	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
105	G1.00			Tee 2 1/2"-2 1/2"-2 1/2"	2	0%	2	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
<b>FIXTURES</b>																
106	G2.00			1/2" Gas Shutoff Valve	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
107	G2.00			3/4" Gas Shutoff Valve	3	0%	3	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
108	G2.00			1" Gas Shutoff Valve	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
109	G2.00			1-1/2" Gas Shutoff Valve	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
110	G2.00			2" Gas Shutoff Valve	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
111	G2.00			2-1/2" Gas Shutoff Valve	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
112	G2.00			2-1/2" Gas Meter	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
<b>SLEEVES</b>																
113	G2.00			Gas Sleeve Through Floor	1	0%	1	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
114	G1.00			Gas Sleeve Through Wall	8	0%	8	EA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
<b>Gas Sub Total</b>											\$ -	\$ -		\$ -		
<b>TRENCHING</b>																
115				Excavation Assumed Width: 1'-6" Assumed Depth: 4'-0"	119	10%	131	CY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
116				Backfilling	119	10%	131	CY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
<b>Trenching Sub Total</b>											\$ -	\$ -		\$ -		
<b>SUB - TOTAL</b>													\$ -	\$ -		\$ -
<b>OVERHEAD AND PROFIT</b>													15.00%	\$ -		\$ -
<b>CONTINGENCY</b>													3%	\$ -		\$ -
<b>TOTAL BASE BID - PLUMBING</b>														\$ -		\$ -