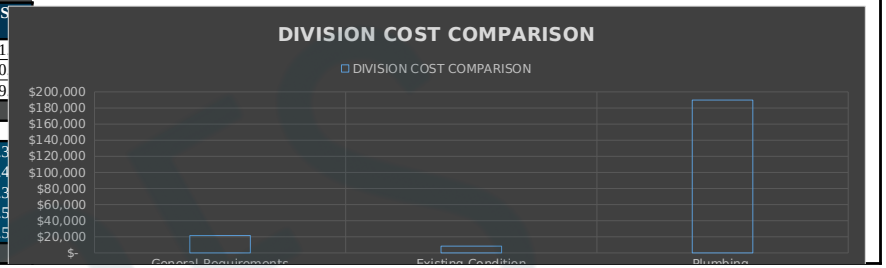
GENERAL SUMMARY

Prepared for: Crunch Fitness 1334 Winston Plaza Melrose Park, IL 60160
Project ID: 8282026
Scope: Plumbing
No. Of Floors: 1
Date: 7-Oct-26

NEDES
National Estimating, Drafting & Engineering Services
+1 (708) 381-0900

BUILDING GSF		19,972	
DIVISION NO	DESCRIPTION	TOTAL DIV. COST	TOTAL DIV. COS (PER SF)
1000	General Requirements	$ 21,600	$ 1
2000	Existing Condition	$ 8,411	$ 0
22000	Plumbing	$ 189,907	$ 9
TOTAL TRADE COST		$ 219,918	$
ERHEAD AND PROFIT (15%+1	30%	$ 65,975	$ 3.3
SUBCONTRACTOR MARGIN	10%	$ 8,987	$ 0.4
INSURANCE	3%	$ 6,598	$ 0.3
CONTINGENCY	5%	$ 10,996	$ 0.5
TAX	10.5%	$ 11,387	$ 0.5
SUGGESTED BID		$ 323,861	$



DETAILED BREAKDOWN OF ITEMS

Prepared for: Crunch Fitness 1334 Winston Plaza Melrose Park, IL 60160
Project ID: 8282026
Scope: Plumbing

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Date: 7-Oct-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
			GENERAL REQUIREMENTS										
			ADMINISTRATIVE REQUIREMENTS										
1			Project Management & Coordination	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 6,500.00	$ 6,500.00
2			Submittals	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
3			Shop Drawings	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
4			Owner/Governmental Safety Requirements	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 800.00	$ 800.00
5			CPM Construction Schedule & Updates	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 1,200.00	$ 1,200.00
6			Progress Photos & Documentation	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 300.00	$ 300.00
			QUALITY REQUIREMENTS										
7			Permits	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 2,500.00	$ 2,500.00
8			Testing, Commissioning & Inspection Services	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 1,500.00	$ 1,500.00
			TEMPORARY FACILITIES & CONTROLS										
9			Temporary Utilities	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 2,000.00	$ 2,000.00
10			Construction Facilities	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 500.00	$ 500.00
11			Temporary Barriers amd Enclosures	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 400.00	$ 400.00
12			Lifting Equipment	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
13			Rental Equipment	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 1,200.00	$ 1,200.00
14			Project Signage	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 200.00	$ 200.00
15			Temporary Fire Protection & Weather Protection	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 300.00	$ 300.00
			EXECUTION & CLOSEOUT REQUIREMENT										
16			Cleaning and Waste Management	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 1,000.00	$ 1,000.00
17			Closeout Submittals	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 500.00	$ 500.00
18			Final Cleaning	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 700.00	$ 700.00
			MISC.										
19			Mobilization / Demobilization	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 2,000.00	$ 2,000.00
												SUBTOTAL	**$ 21,600**
			EXISTING CONDITIONS										
			DEMOLITION										
20			Removal of Existing Water Heater, Associated Water Piping, Mounting Hardware and Appurtenances, All Hot Water Piping to be Removed Cut Back and Cap Cold Water Line Back to Associated Main	EA	1	0%	1	4.00	$ 95.00	$ 380.00	$ -	$ 380.00	$ 380.00
21			Removal of Existing Water Closet and its Associated Sanitary, Vent and Water Piping's, Mounting Hardware and Appurtenances. Cut Back and Cap Vent and Water Lines to Associated Mains, Cut Back and Cap Sanitary Waste Line at Sanitary Main	EA	6	0%	6	3.00	$ 95.00	$ 285.00	$ -	$ 285.00	$ 1,710.00
22			Removal of Existing Urinal and its Associated Sanitary, Vent and Water Piping's, Mounting Hardware and Appurtenances. Cut Back and Cap Vent and Water Lines to Associated Mains, Cut Back and Cap Sanitary Waste Line at Sanitary Main	EA	2	0%	2	2.50	$ 95.00	$ 237.50	$ -	$ 237.50	$ 475.00
23	SHEET#P0.4,P0.5	From Plumbing Demolition Plans	Removal of Existing Lavatory and its Associated Sanitary, Vent and Water Piping's, Mounting Hardware and Appurtenances. Cut Back and Cap Vent and Water Lines to Associated Mains, Cut Back and Cap Sanitary Waste Line at Sanitary Main	EA	4	0%	4	2.12	$ 95.00	$ 201.40	$ -	$ 201.40	$ 805.60
24			Removal of Existing MOP Sink and its Associated Sanitary, Vent and Water Piping's, Mounting Hardware and Appurtenances. Cut Back and Cap Vent and Water Lines to Associated Mains, Cut Back and Cap Sanitary Waste Line at Sanitary Main	EA	1	0%	1	2.66	$ 95.00	$ 252.70	$ -	$ 252.70	$ 252.70
25			Removal of Dia 1" Cold Water Pipe W/All Relevant Accessories and Fittings	LF	99.87	0%	100	0.12	$ 95.00	$ 11.40	$ -	$ 11.40	$ 1,138.52
26			Removal of Dia 3/4" Cold Water Pipe W/All Relevant Accessories and Fittings	LF	42.98	0%	43	0.11	$ 95.00	$ 10.45	$ -	$ 10.45	$ 449.14
27			Removal of Dia 1/2" Cold Water Pipe W/All Relevant Accessories and Fittings	LF	33.69	0%	34	0.10	$ 95.00	$ 9.50	$ -	$ 9.50	$ 320.06
28			Removal of Dia 1/2" Hot Water Pipe W/All Relevant Accessories and Fittings	LF	66.22	0%	66	0.10	$ 95.00	$ 9.50	$ -	$ 9.50	$ 629.09
29			Removal of Dia 4" Waste Pipe W/All Relevant Accessories and Fittings	LF	88.52	0%	89	0.15	$ 95.00	$ 14.25	$ -	$ 14.25	$ 1,261.41
30			Removal of Dia 3" Waste Pipe W/All Relevant Accessories and Fittings	LF	16.16	0%	16	0.14	$ 95.00	$ 13.30	$ -	$ 13.30	$ 214.93
31			Removal of Dia 2" Waste Pipe W/All Relevant Accessories and Fittings	LF	62.73	0%	63	0.13	$ 95.00	$ 12.35	$ -	$ 12.35	$ 774.72
												SUBTOTAL	**$ 8,411**
			PLUMBING										
			COLD WATER PIPE (ABOVE GRADE)										
			Type "L (B)" Copper Drawn (H) Tubing With Wrough Copper And Bronze Fittings And Cast iron Coted Joints (ASTM B 88M) (ASTM B16.18) (ASTM B32)										
32			1/2" Dia Cold Water Pipe	LF	154	10%	170	0.08	$ 95.00	$ 7.60	$ 4.95	$ 12.55	$ 2,127.63
33			3/4" Dia Cold Water Pipe	LF	200	10%	220	0.09	$ 95.00	$ 8.55	$ 7.15	$ 15.70	$ 3,451.93
34			1" Dia Cold Water Pipe	LF	114	10%	126	0.10	$ 95.00	$ 9.50	$ 10.45	$ 19.95	$ 2,505.90
35			1-1/4" Dia Cold Water Pipe	LF	16	10%	18	0.12	$ 95.00	$ 11.40	$ 14.30	$ 25.70	$ 463.06
36			1-1/2" Dia Cold Water Pipe	LF	14	10%	16	0.13	$ 95.00	$ 12.35	$ 17.60	$ 29.95	$ 465.84
37			2" Dia Cold Water Pipe	LF	161	10%	177	0.16	$ 95.00	$ 15.20	$ 28.60	$ 43.80	$ 7,745.42
38			2-1/2" Dia Cold Water Pipe	LF	173	10%	191	0.20	$ 95.00	$ 19.00	$ 46.20	$ 65.20	$ 12,421.90
			1/2" Thick, Glass Fiber Pipe Insulation, Rigid Molded, Noncombustible K Value ASTM C 177, KNAUF Johns Manvile Corporation										
39			1/2" Dia Cold Water Pipe	LF	154	10%	170	0.04	$ 95.00	$ 3.33	$ 3.03	$ 6.36	$ 1,077.38
40			3/4" Dia Cold Water Pipe	LF	200	10%	220	0.04	$ 95.00	$ 3.33	$ 3.30	$ 6.63	$ 1,456.63
41			1" Dia Cold Water Pipe	LF	114	10%	126	0.04	$ 95.00	$ 3.80	$ 3.63	$ 7.43	$ 933.27
42			1-1/4" Dia Cold Water Pipe	LF	16	10%	18	0.04	$ 95.00	$ 3.80	$ 3.96	$ 7.76	$ 139.82
43			1-1/2" Dia Cold Water Pipe	LF	14	10%	16	0.05	$ 95.00	$ 4.28	$ 4.40	$ 8.68	$ 134.93
44			2" Dia Cold Water Pipe	LF	161	10%	177	0.05	$ 95.00	$ 4.75	$ 5.50	$ 10.25	$ 1,812.57
45			2-1/2" Dia Cold Water Pipe	LF	173	10%	191	0.06	$ 95.00	$ 5.23	$ 6.60	$ 11.83	$ 2,252.90
			COLD WATER PIPE FITTINGS										
			ELBOW										
46			Dia 1/2" 90 Deg Elbow	EA	16	0%	16	0.25	$ 95.00	$ 23.75	$ 1.65	$ 25.40	$ 406.40
47			Dia 3/4" 90 Deg Elbow	EA	24	0%	24	0.29	$ 95.00	$ 27.55	$ 2.75	$ 30.30	$ 727.20
48			Dia 1" 90 Deg Elbow	EA	10	0%	10	0.36	$ 95.00	$ 34.20	$ 5.50	$ 39.70	$ 397.00
49			Dia 2" 90 Deg Elbow	EA	4	0%	4	0.65	$ 95.00	$ 61.75	$ 19.00	$ 80.75	$ 323.00
50			Dia 2-1/2" 90 Deg Elbow	EA	4	0%	4	0.80	$ 95.00	$ 76.00	$ 38.00	$ 114.00	$ 456.00
			TEE										
51			Dia 1/2" Tee	EA	1	0%	1	0.38	$ 95.00	$ 36.10	$ 3.00	$ 39.10	$ 39.10
52			Dia 3/4" Tee	EA	6	0%	6	0.44	$ 95.00	$ 41.80	$ 4.50	$ 46.30	$ 277.80
53			Dia 1" Tee	EA	9	0%	9	0.55	$ 95.00	$ 52.25	$ 9.00	$ 61.25	$ 551.25
54			Dia 2" Tee	EA	2	0%	2	0.95	$ 95.00	$ 90.25	$ 32.00	$ 122.25	$ 244.50
55			Dia 2-1/2" Tee	EA	1	0%	1	1.20	$ 95.00	$ 114.00	$ 60.00	$ 174.00	$ 174.00
56			Dia 3/4" / 1/2" Tee	EA	8	0%	8	0.44	$ 95.00	$ 41.80	$ 5.00	$ 46.80	$ 374.40
57			Dia 3/4" / 2" Tee	EA	11	0%	11	0.60	$ 95.00	$ 57.00	$ 30.00	$ 87.00	$ 957.00
58			Dia 1-1/2" / 1" Tee	EA	4	0%	4	0.70	$ 95.00	$ 66.50	$ 20.00	$ 86.50	$ 346.00
59			Dia 1" / 1/2" Tee	EA	1	0%	1	0.55	$ 95.00	$ 52.25	$ 6.00	$ 58.25	$ 58.25
60			Dia 1-1/4" / 3/4" Tee	EA	1	0%	1	0.60	$ 95.00	$ 57.00	$ 12.00	$ 69.00	$ 69.00
61			Dia 2" / 1/2" Tee	EA	6	0%	6	0.95	$ 95.00	$ 90.25	$ 30.00	$ 120.25	$ 721.50
62			Dia 2" / 1" Tee	EA	2	0%	2	0.95	$ 95.00	$ 90.25	$ 30.00	$ 120.25	$ 240.50
63			Dia 2-1/2" / 3/4" Tee	EA	1	0%	1	1.20	$ 95.00	$ 114.00	$ 55.00	$ 169.00	$ 169.00
64			Dia 2-1/2" / 1-1/2" Tee	EA	1	0%	1	1.20	$ 95.00	$ 114.00	$ 58.00	$ 172.00	$ 172.00
65			Dia 1-1/4" / 1-1/2" Tee	EA	2	0%	2	0.70	$ 95.00	$ 66.50	$ 15.00	$ 81.50	$ 163.00
66			Dia 2" / 1-1/2" / 3/4" Tee	EA	1	0%	1	1.00	$ 95.00	$ 95.00	$ 35.00	$ 130.00	$ 130.00
67			Dia 1" / 1-1/4" / 3/4" Tee	EA	1	0%	1	0.65	$ 95.00	$ 61.75	$ 14.00	$ 75.75	$ 75.75
68			Dia 1" / 3/4" / 1/2" Tee	EA	1	0%	1	0.55	$ 95.00	$ 52.25	$ 6.00	$ 58.25	$ 58.25
			REDUCER										
69			Dia 1-1/2" / 1" Reducer	EA	2	0%	2	0.40	$ 95.00	$ 38.00	$ 8.00	$ 46.00	$ 92.00
70			Dia 2" / 1-1/2" Reducer	EA	2	0%	2	0.55	$ 95.00	$ 52.25	$ 15.00	$ 67.25	$ 134.50
			HOT WATER PIPE (ABOVE GRADE)										
			Type "L (B)" Dia Copper Drawn (H) Tubing With Wrough Copper And Bronze Fittings And Cast iron Coted Joints (ASTM B 88M) (ASTM B16.18) (ASTM B32)										
71			1/2" Dia Hot Water Pipe	LF	68	10%	75	0.08	$ 95.00	$ 7.60	$ 4.95	$ 12.55	$ 937.91
72			3/4" Dia Hot Water Pipe	LF	141	10%	155	0.09	$ 95.00	$ 8.55	$ 7.15	$ 15.70	$ 2,427.99
73			1" Dia Hot Water Pipe	LF	72	10%	79	0.10	$ 95.00	$ 9.50	$ 10.45	$ 19.95	$ 1,580.04
74			1-1/4" Dia Hot Water Pipe	LF	9	10%	10	0.12	$ 95.00	$ 11.40	$ 14.30	$ 25.70	$ 257.82
75			1-1/2" Dia Hot Water Pipe	LF	134	10%	147	0.13	$ 95.00	$ 12.35	$ 17.60	$ 29.95	$ 4,404.09
			1" Thick, Glass Fiber Pipe Insulation, Rigid Molded, Noncombustible K Value ASTM C 177, KNAUF Johns Manvile Corporation										
76			1/2" Dia Hot Water Pipe	LF	68	10%	75	0.04	$ 95.00	$ 3.33	$ 4.40	$ 7.73	$ 577.32
77			3/4" Dia Hot Water Pipe	LF	141	10%	155	0.04	$ 95.00	$ 3.33	$ 4.95	$ 8.28	$ 1,279.72
78			1" Dia Hot Water Pipe	LF	72	10%	79	0.04	$ 95.00	$ 3.80	$ 5.50	$ 9.30	$ 736.56
79			1-1/4" Dia Hot Water Pipe	LF	9	10%	10	0.04	$ 95.00	$ 3.80	$ 6.05	$ 9.85	$ 98.82
80			1-1/2" Dia Hot Water Pipe	LF	134	10%	147	0.05	$ 95.00	$ 4.28	$ 6.60	$ 10.88	$ 1,599.15
			HOT WATER PIPE FITTINGS										

DETAILED BREAKDOWN OF ITEMS

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Date: 7-Oct-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
			ELBOW										
81			Dia 1/2" 90 Deg Elbow	EA	4	0%	4	0.25	$ 95.00	$ 23.75	$ 1.65	$ 25.40	$ 101.60
82			Dia 3/4" 90 Deg Elbow	EA	20	0%	20	0.29	$ 95.00	$ 27.55	$ 2.75	$ 30.30	$ 606.00
83			Dia 1" 90 Deg Elbow	EA	5	0%	5	0.36	$ 95.00	$ 34.20	$ 5.50	$ 39.70	$ 198.50
84			Dia 1-1/2" 90 Deg Elbow	EA	6	0%	6	0.47	$ 95.00	$ 44.65	$ 12.00	$ 56.65	$ 339.90
			TEE										
85			Dia 3/4" Tee	EA	2	0%	2	0.44	$ 95.00	$ 41.80	$ 4.50	$ 46.30	$ 92.60
86			Dia 1-1/2" / 3/4" Tee	EA	2	0%	2	0.70	$ 95.00	$ 66.50	$ 16.00	$ 82.50	$ 165.00
87			Dia 1" / 1/2" Tee	EA	4	0%	4	0.55	$ 95.00	$ 52.25	$ 6.00	$ 58.25	$ 233.00
88			Dia 1-1/4" / 3/4" Tee	EA	2	0%	2	0.60	$ 95.00	$ 57.00	$ 12.00	$ 69.00	$ 138.00
89			Dia 1-1/2" / 3/4" Tee	EA	3	0%	3	0.70	$ 95.00	$ 66.50	$ 16.00	$ 82.50	$ 247.50
90			Dia 1" / 1-1/4" / 3/4" Tee	EA	2	0%	2	0.65	$ 95.00	$ 61.75	$ 14.00	$ 75.75	$ 151.50
91			Dia 1-1/2" / 1-1/4" / 3/4" Tee	EA	2	0%	2	0.75	$ 95.00	$ 71.25	$ 20.00	$ 91.25	$ 182.50
92			Dia 1-1/2" / 3/4" / 1/2" Tee	EA	1	0%	1	0.72	$ 95.00	$ 68.40	$ 17.00	$ 85.40	$ 85.40
93			Dia 1-1/2" / 1/2" Tee	EA	2	0%	2	0.68	$ 95.00	$ 64.60	$ 14.00	$ 78.60	$ 157.20
			REDUCER										
94			Dia 1" / 1/2" Reducer	EA	2	0%	2	0.36	$ 95.00	$ 34.20	$ 6.00	$ 40.20	$ 80.40
			HOT WATER RETURN PIPE (ABOVE GRADE)										
			Type "L (B)" Copper Drawn (H) Tubing With Wrough Copper And Bronze Fittings And Cast iron Coted Joints (ASTM B 88M) (ASTM B16.18) (ASTM B32)										
95			3/4" Dia Hot Water Return Pipe	LF	91	10%	100	0.09	$ 95.00	$ 8.55	$ 7.15	$ 15.70	$ 1,564.14
			1" Thick, Glass Fiber Pipe Insulation, Rigid Molded, Noncombustible K Value ASTM C 177, KNAUF Johns Manvile Corporation										
96			3/4" Dia Hot Water Return Pipe	LF	91	10%	100	0.04	$ 95.00	$ 3.33	$ 4.95	$ 8.28	$ 824.41
			HOT WATER RETURN PIPE FITTINGS										
			ELBOW										
97			Dia 3/4" 90 Deg Elbow	EA	5	0%	5	0.29	$ 95.00	$ 27.55	$ 2.75	$ 30.30	$ 151.50
			TEE										
98			Dia 3/4" Tee	EA	1	0%	1	0.44	$ 95.00	$ 41.80	$ 4.50	$ 46.30	$ 46.30
			WASTE PIPE (BELOW SLAB)										
			Service Weight Cast Iron Pipe With Hub And Spigot Joints CISPI HSN Compression Type With Astm A74 Neoprene Gaskets Or Lead And Oakum										
99			4" Dia Waste Pipe	LF	200	10%	220	0.16	$ 95.00	$ 15.20	$ 33.00	$ 48.20	$ 10,615.66
100			2" Dia Waste Pipe	LF	196	10%	216	0.10	$ 95.00	$ 9.50	$ 16.50	$ 26.00	$ 5,615.61
101			3" Dia Waste Pipe	LF	7	10%	8	0.13	$ 95.00	$ 12.35	$ 24.20	$ 36.55	$ 285.86
			WASTE PIPE FITTINGS										
			ELBOW										
102			4" Dia Waste Pipe 45 Degree Elbow	EA	20	0%	20	0.55	$ 95.00	$ 52.25	$ 42.00	$ 94.25	$ 1,885.00
103			3" Dia Waste Pipe 45 Degree Elbow	EA	2	0%	2	0.45	$ 95.00	$ 42.75	$ 30.00	$ 72.75	$ 145.50
104			2" Dia Waste Pipe 45 Degree Elbow	EA	46	0%	46	0.35	$ 95.00	$ 33.25	$ 20.00	$ 53.25	$ 2,449.50
			WYE										
105			4" Dia Waste Pipe Wye Comb Joint	EA	9	0%	9	0.80	$ 95.00	$ 76.00	$ 60.00	$ 136.00	$ 1,224.00
106			2" Dia Waste Pipe Wye Comb Joint	EA	1	0%	1	0.55	$ 95.00	$ 52.25	$ 32.00	$ 84.25	$ 84.25
107			4" / 2" Dia Waste Pipe Wye Comb Joint	EA	21	0%	21	0.75	$ 95.00	$ 71.25	$ 55.00	$ 126.25	$ 2,651.25
			WASTE PIPE (ABOVE GROUND)										
			Service Weight Cast Iron Pipe With Hub And Spigot Joints CISPI HSN Compression Type With Astm A74 Neoprene Gaskets Or Lead And Oakum										
108			3" Dia Waste Pipe	LF	4	10%	4	0.14	$ 95.00	$ 13.30	$ 24.20	$ 37.50	$ 165.00
109			2" Dia Waste Pipe	LF	60	10%	66	0.11	$ 95.00	$ 10.45	$ 16.50	$ 26.95	$ 1,778.70
			WASTE PIPE FITTINGS										
			WYE										
110			2" Dia Waste Pipe Wye Comb Joint	EA	20	0%	20	0.55	$ 95.00	$ 52.25	$ 32.00	$ 84.25	$ 1,685.00
111			3" / 2" Dia Waste Pipe Wye Comb Joint	EA	1	0%	1	0.65	$ 95.00	$ 61.75	$ 45.00	$ 106.75	$ 106.75
			VENT PIPE (ABOVE GRADE)										
			Service Weight Cast Iron Pipe With Hub And Spigot Joints CISPI HSN Compression Type With Astm A74 Neoprene Gaskets Or Lead And Oakum										
112			3" Dia Vent Pipe	LF	142	10%	157	0.12	$ 95.00	$ 11.40	$ 24.20	$ 35.60	$ 5,573.64
113			4" Dia Vent Pipe	LF	17	10%	19	0.15	$ 95.00	$ 14.25	$ 33.00	$ 47.25	$ 907.48
114			2" Dia Vent Pipe	LF	240	10%	264	0.10	$ 95.00	$ 9.03	$ 16.50	$ 25.53	$ 6,743.09
115			1-1/2" Dia Vent Pipe	LF	164	10%	180	0.08	$ 95.00	$ 7.60	$ 14.30	$ 21.90	$ 3,944.50
			VENT PIPE FITTINGS										
			ELBOW										
116			3" Dia Vent Pipe 90 Degree Elbow	EA	4	0%	4	0.45	$ 95.00	$ 42.75	$ 30.00	$ 72.75	$ 291.00
117			2" Dia Vent Pipe 90 Degree Elbow	EA	22	0%	22	0.35	$ 95.00	$ 33.25	$ 20.00	$ 53.25	$ 1,171.50
118			1-1/2" Dia Vent Pipe 90 Degree Elbow	EA	7	0%	7	0.30	$ 95.00	$ 28.50	$ 16.00	$ 44.50	$ 311.50
			TEE										
119			2" Dia Vent Pipe Tee Joint	EA	1	0%	1	0.50	$ 95.00	$ 47.50	$ 34.00	$ 81.50	$ 81.50
120			3" / 2" Dia Vent Pipe Tee Joint	EA	18	0%	18	0.60	$ 95.00	$ 57.00	$ 45.00	$ 102.00	$ 1,836.00
121			4" / 3" Dia Vent Pipe Tee Joint	EA	1	0%	1	0.80	$ 95.00	$ 76.00	$ 70.00	$ 146.00	$ 146.00
122			3" / 1-1/2" Dia Vent Pipe Tee Joint	EA	8	0%	8	0.55	$ 95.00	$ 52.25	$ 42.00	$ 94.25	$ 754.00
			REDUCER										
123			3" / 2" Dia Vent Pipe Reducer	EA	1	0%	1	0.40	$ 95.00	$ 38.00	$ 22.00	$ 60.00	$ 60.00
124			3" / 1-1/2" Dia Vent Pipe Reducer	EA	1	0%	1	0.40	$ 95.00	$ 38.00	$ 22.00	$ 60.00	$ 60.00
			CONDENSATE DRAINAGE PIPE (ABOVE GROUND)										
			Schedule 40 PVC Pipe With ASTM Standards And Fittings (Material Assumed)										
125			1-1/4" Dia Condensate Drainage Pipe	LF	166	10%	182	0.05	$ 95.00	$ 4.75	$ 2.20	$ 6.95	$ 1,266.55
126			1" Dia Condensate Drainage Pipe	LF	260	10%	286	0.05	$ 95.00	$ 4.28	$ 1.65	$ 5.93	$ 1,692.66
127			3/8" Dia Condensate Drainage Pipe	LF	11	10%	12	0.04	$ 95.00	$ 3.33	$ 1.10	$ 4.43	$ 54.42
			1/2" Thick Fiberglass Insulation With ASTM Standards (Insulation Assumed)										
128			1-1/4" Dia Condensate Drainage Pipe	LF	166	10%	182	0.04	$ 95.00	$ 3.33	$ 3.30	$ 6.63	$ 1,207.32
129			1" Dia Condensate Drainage Pipe	LF	260	10%	286	0.03	$ 95.00	$ 2.85	$ 3.03	$ 5.88	$ 1,679.80
130			3/8" Dia Condensate Drainage Pipe	LF	11	10%	12	0.03	$ 95.00	$ 2.85	$ 2.75	$ 5.60	$ 68.87
			CONDENSATE DRAINAGE PIPE FITTINGS										
			ELBOW										
131			1-1/4" Dia Condensate Pipe 90 Degree Elbow	EA	2	0%	2	0.15	$ 95.00	$ 14.25	$ 2.50	$ 16.75	$ 33.50
132			1" Dia Condensate Pipe 90 Degree Elbow	EA	9	0%	9	0.13	$ 95.00	$ 12.35	$ 1.75	$ 14.10	$ 126.90
133			3/8" Dia Condensate Pipe 90 Degree Elbow	EA	2	0%	2	0.10	$ 95.00	$ 9.50	$ 1.50	$ 11.00	$ 22.00
			WYE										
134			1" Dia Condensate Pipe Wye Comb Joint	EA	3	0%	3	0.20	$ 95.00	$ 19.00	$ 3.50	$ 22.50	$ 67.50
135			1-1/4" / 1" Dia Condensate Pipe Wye Comb Joint	EA	1	0%	1	0.22	$ 95.00	$ 20.90	$ 4.00	$ 24.90	$ 24.90
			REDUCER										
136			1-1/4" / 1" Dia Condensate Pipe Reducer	EA	2	0%	2	0.13	$ 95.00	$ 12.35	$ 2.50	$ 14.85	$ 29.70
			GAS PIPE (ABOVE GRADE)										
	Sheet#P-1 _ P-2	From Plumbing Drawings	**Schedule 40 Black Steel Pipe With Welded Joints NFPA 54, (ASTM B31.1)**										
137			3/4" Dia Gas Pipe	LF	160	10%	176	0.12	$ 95.00	$ 11.40	$ 5.50	$ 16.90	$ 2,972.17
			GAS PIPE FITTINGS										
			ELBOW										
138			Dia 3/4" 90 Deg Elbow	EA	17	0%	17	0.30	$ 95.00	$ 28.50	$ 4.00	$ 32.50	$ 552.50
			PLUMBING FIXTURES								$ 290.05		
139			LAV-1: Stainless Steel Lavatory, KOHLER CAXTON K-20000 FAUCET: AMERICAN STANDARD 1186.101.002, MANUAL OPERATION SUPPLIES: PROFLO PFXCAC32CL12. PROTECTIVE PIPE COVERS: PROFLO PFPTB108, PROFLO PF202WH. Notes: 1: Rectangle Undermount Sink, Virtuous China, Size: 20-1/4" X 15-11/16" X 7 5/16", Less Overflow, Ada Compliant. Faucet: American Standard 1186.101.002. Protective Pipe Covers: Ada Compliant, China White, Anti-Bacterial/Fungal, Molded Vinyl, P-Trap Cover, Two Angle Valve And Supply Covers, 5" Offset Tailpiece Wheelchair Strainer Cover.	EA	6	0%	6	2.50	$ 95.00	$ 237.50	$ 450.00	$ 687.50	$ 4,125.00
140			~~LAV-2: Lavatory, AMERICAN STANDARD LUCERNE 0356.421~~ FAUCET: AMERICAN STANDARD 1186.101.002, MANUAL OPERATION SUPPLIES: PROFLO PFXCAC32CL12. PROTECTIVE PIPE COVERS: PROFLO PFPTB108, PROFLO PF202WH. Notes: 1: Wall Hung, Vitreous China, D-Shaped Bowl, Front Overflow, Self-Draining Deck Area With Contoured Back And Side Splash Shields, Concealed Wall Hanger, Rectangular Shaped Lavatory, 1 Faucet Hole Centered, Less Soap Dispenser Hole, Ada Compliant, Color White. Faucet: 0.5 GPM Pressure Compensating Vandal-Resistant Multi-Laminar Spray, 3/8" Threaded Male Inlet Shanks, Single Hole Installation. Supplies: Chrome Plated Angle Stops With Loose Key Handle, Chrome Plated Flexible Brass Riser, Insulate All Exposed Water Lines And Valves. Waste: Grid Drain Strainer, 1-1/2" Offset Tailpiece, 1-1/2" Chrome 17 Gauge Chrome Plated Adjustable Brass P-Trap With Cleanout Plug, 1-1/2" Chrome Plated Brass Waste To Wall. Protective Pipe Covers: Ada Compliant, China White, Anti-Bacterial/Fungal, Molded Vinyl, P-Trap Cover, Two Angle Valve And Supply Covers, 5" Offset Tailpiece Wheelchair Strainer Cover.	EA	1	0%	1	2.50	$ 95.00	$ 237.50	$ 410.00	$ 647.50	$ 647.50

DETAILED BREAKDOWN OF ITEMS

Prepared for: Crunch Fitness 1334 Winston Plaza Melrose Park, IL 60160
Project ID: 8282026
Scope: Plumbing

NEDES
National Estimating, Drafting & Engineering Services
+1 (708) 381-0900

Date: 7-Oct-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
141			DF: Stainless Steel Drinking Fountain, ELKAY EZSTL8WSSK ELKAY EZSTL8WSSK EZH20, Bottle Filling Station And Versatile Bi-Level Ada Cooler, Non-Filtered, Refrigerated, Stainless 1: Rectangular Shaped Bowl, Wall Hung, Exposed On Wall, Countoured Shock Absorbing Upper Shroud, No Exposed Fasteners, High Side On The Left, Easy-Touch Controls On The Front Only, Refrigerated Unit, Refrigerant Hfc-134a Controlled By Capillary Tube, Flow Rate Of 8.0 Gph, Barrier Free Self-Contained, One Piece Polished Stainless Steel Basin, Integral Drain Grid, Embossed Bubbler, Lead-Free Waterways, Easily Cleanable Screen, Bottle Filling Station. Gauge Chrome Plated Brass Adjustable P-Trap With Cleanout Plug, 1-1/2" Chrome Plated Brass Waste To Wall, Concealed In Unit	EA	1	0%	1	2.50	$ 95.00	$ 237.50	$ 1,500.00	$ 1,737.50	$ 1,737.50
142			WC: Water Closet, AMERICAN STANDARD 3043.001 Flushing System: SLOAN CROWN 111-1.28 GPF, Manual Flush Valve, Seat: AMERICAN STANDARD 5901.100 Notes: 1: Water Closet: Manual Flush Valve Operation, Vitreous China, Conventional Glaze, 1.28 GPF, Floor Mounted, Back Outlet, 1-1/2" Top Inlet Spud, 25 Psi Minimum Working Pressure, Color: White. Flushing System: 1.28 GPF, Sloan Crown 111-1.28 GPF, Inlet Includes 1" Sweat Solder Kit And Angle Stop With Backflow Protection And Vandal-Resistant Cap. Chemical Resistant Epdm Seals, High Back Pressure Vacuum Breaker, Adjustable Tailpiece. Seat: American Standard #5901.100, Elongated Heavy Duty Seat, Open Front	EA	6	0%	6	2.50	$ 95.00	$ 237.50	$ 475.00	$ 712.50	$ 4,275.00
143			WCA: (ADA) Water Closet, AMERICAN STANDARD 3043.001 Flushing System: SLOAN CROWN 111-1.28 GPF, Manual Flush Valve, Seat: AMERICAN STANDARD 5901.100 Notes: 1: Water Closet: Manual Flush Valve Operation, Vitreous China, Conventional Glaze, 1.28 GPF, Floor Mounted, Back Outlet, 1-1/2" Top Inlet Spud, 25 Psi Minimum Working Pressure, Color: White. Flushing System: 1.28 GPF, Sloan Crown 111-1.28 GPF, Inlet Includes 1" Sweat Solder Kit And Angle Stop With Backflow Protection And Vandal-Resistant Cap. Chemical Resistant Epdm Seals, High Back Pressure Vacuum Breaker, Adjustable Tailpiece. Seat: American Standard #5901.100, Elongated Heavy Duty Seat, Open Front	EA	3	0%	3	2.80	$ 95.00	$ 266.00	$ 475.00	$ 741.00	$ 2,223.00
144			MS: Mop Sink, PROFLO PFMB2424 Faucet: PROFLO PF1119, 24" Long X 3" Wide Stainless Steel Mop Bracket With Three Rubber Grips, 36" Hose With Hanger. 1: High-Density Composite Basin, Plain Curbs, One Piece 24"X24"X10" Square Basin, Stainless Steel Drain Body, Factory Installed Stainless Steel Drain Body, Cast Iron P-Trap.	EA	1	0%	1	3.00	$ 95.00	$ 285.00	$ 530.00	$ 815.00	$ 815.00
145			UR: Urinal, AMERICAN STANDARD 6561.017.02 Flushing System: SLOAN 186-0.5, Manual Flush Valve, CARRIER: ZURN Z1222 Notes: 1: 0.5 GPF, 3/4" Inlet Spud, Wall Mounted, Flush System: Sloan 186-0.5 GPF, Polished Chrome Finish.	EA	2	0%	2	2.80	$ 95.00	$ 266.00	$ 750.00	$ 1,016.00	$ 2,032.00
146			FS-1: Floor Sink, OATLEY 42721	EA	1	0%	1	1.50	$ 95.00	$ 142.50	$ 120.00	$ 262.50	$ 262.50
147			HB-1: Hose Bibb, WATTS HY-420 1: Wall Hydrant With Chrome Plated Face, Integral Vacuum Breaker, All Bronze Head, Seat Casting And Integral Working Parts, Bronze Wall Casing, And Loose Key. Complies With Asse 1019-2004, Upc/Iampo Listed. Max. Operating Pressure 125 Psi.	EA	2	0%	2	0.80	$ 95.00	$ 76.00	$ 180.00	$ 256.00	$ 512.00
148			HB-2: Hose Bib, WOODFORD 24 1: Rough Bronze Exterior, Exposed, Anti-Siphon, All Bronze Interior Wall Faucet, Vandal-Resistant Loose Tee Handle Operating Stem, Adjustable Packing Nut, External Tamper Proof Vacuum Breaker Mild Climate Construction	EA	1	0%	1	0.80	$ 95.00	$ 76.00	$ 120.00	$ 196.00	$ 196.00
149			S-1: Breakroom Sink, ELKAY LRAD1151750 Faucet: DELTA 1959LF CHROME BAR FAUCET 1: 18-Gauge Stainless Steel, Single Compartment Sink, Self Rimming With 1-3/4" Radius Cover Corners, Fully Coated Underside, 1 Hole, 15" X 17-1/2" X 5". Delta 1959lf Chrome Bar Faucet With Chrome Single Lever Handle. Polished Chrome Finish, Basket Strainer And Drain	EA	1	0%	1	2.00	$ 95.00	$ 190.00	$ 280.00	$ 470.00	$ 470.00
150			SHW-2: Shower, PEERLESS PTT14265 1: Ada Compliant, Pressure Balancing Mixing Valve With Lever Handle, Integral Service Stops, Adjustable Stop Screw, Zinc Construction, Chrome Finish. All Parts Adjustable From The Front Of The Valve, 1.5 GPM, Swivel Joint Shower Head With Rain Spray Pattern.	EA	7	0%	7	1.50	$ 95.00	$ 142.50	$ 120.00	$ 262.50	$ 1,837.50
151			SHW-1: Accessible Shower, PEERLESS PTT24247 1: Ada Compliant, Pressure Balancing Mixing Valve With Lever Handle, Integral Service Stops, Adjustable Stop Screw, Zinc Construction. Wall/Hand Shower With Flexible Metal Hose, In-Line Vacuum Breaker, 24" Slide Bar, 1.5 GPM, Chrome Finish, Swivel Joint, Handheld Shower Head	EA	3	0%	3	1.80	$ 95.00	$ 171.00	$ 180.00	$ 351.00	$ 1,053.00
152			WHA: Water Hammer Arrestor, SIOUX CHIEF 652-D	EA	11	0%	11	0.30	$ 95.00	$ 28.50	$ 18.00	$ 46.50	$ 511.50
153			WB-1: Washer Wall Box, SYMMONS W-602X (Provide By Owner Install By GC)	EA	1	0%	1	0.00	$ -	$ -	$ -	$ -	$ -
			WATER HEATER										
154			IWH-1, Instaneous Water Heater, .07 Gallons, Type: Electric, Manufacturer: STEIBEL ELTRON, Model: DHC-E PLUS 12/15-2	EA	1	0%	1	3.00	$ 95.00	$ 285.00	$ 650.00	$ 935.00	$ 935.00
155			WH-1: Gas Water Heater, RINNAI CU199I Provide Cascade Harness For Temperature Control, Flange Kit For Recirculation Pump With HONEYWELL L6006C Aquastat Controller, And Commercial Neutralization Tank With Media. 199,000 Btu Each, Energy Efficiency Of 95%. See Detail For Additional Information. Extend Drain Line To Approved Receptor With Air Gap. Plumbing Contractor To Provide Start-Up And Complete Installation Of Each Unit In Total Conformance With The Manufacturer's Installation Instructions.	EA	1	0%	1	8.00	$ 95.00	$ 760.00	$ 3,000.00	$ 3,760.00	$ 3,760.00
156			WH-2: Gas Water Heater, RINNAI CU199I Provide Cascade Harness For Temperature Control, Flange Kit For Recirculation Pump With HONEYWELL L6006C Aquastat Controller, And Commercial Neutralization Tank With Media. 199,000 Btu Each, Energy Efficiency Of 95%. See Detail For Additional Information. Extend Drain Line To Approved Receptor With Air Gap. Plumbing Contractor To Provide Start-Up And Complete Installation Of Each Unit In Total Conformance With The Manufacturer's Installation Instructions.	EA	1	0%	1	8.00	$ 95.00	$ 760.00	$ 3,000.00	$ 3,760.00	$ 3,760.00
157			WH-3: Gas Water Heater, RINNAI CU199I Provide Cascade Harness For Temperature Control, Flange Kit For Recirculation Pump With HONEYWELL L6006C Aquastat Controller, And Commercial Neutralization Tank With Media. 199,000 Btu Each, Energy Efficiency Of 95%. See Detail For Additional Information. Extend Drain Line To Approved Receptor With Air Gap. Plumbing Contractor To Provide Start-Up And Complete Installation Of Each Unit In Total Conformance With The Manufacturer's Installation Instructions.	EA	1	0%	1	8.00	$ 95.00	$ 760.00	$ 3,000.00	$ 3,760.00	$ 3,760.00
			PUMP										
158			RP: Recirculation Pump, GRUNDFOS UPS 26-99 1: Provide Grundfos Direct Flow Sensor At Cold Water Inlet To Water Heater Bank For Hot Water Demand Control. Pump Shall Be Tied To Aquastat Controller And Flow Sensor And Shall Switch Off As Target Temperature Is Reached And No Demand For Hot Water Is Required.	EA	1	0%	1	2.50	$ 95.00	$ 237.50	$ 450.00	$ 687.50	$ 687.50
			MISCELLANEOUS										
			CLEANOUTS & DRAINS										
159			FD-1: Floor Drain, ZURN ZN415-4NH-6BZ1 1: Dura-Coated Cast Iron Body With Bottom Outlet, Combination Invertible Membrane Clamp And Adjustable Collar With Seepage Slots And Type "B" Polished Nickel Bronze, Light Duty Heel Proof Strainer.	EA	22	0%	22	1.05	$ 95.00	$ 99.75	$ 382.99	$ 482.74	$ 10,620.28
160			CO: Floor Cleanout: WADE W-6000-Z-1-12-75 1: Cast Iron Ferrule And Plug, Dura-Coated Cast Iron, Double-Flanged Housing, And Extra Heavy Duty Scoriated Cast Iron Cover With Lifting Device, Vandal-Proof Screws.	EA	7	0%	7	0.99	$ 95.00	$ 94.05	$ 256.62	$ 350.67	$ 2,454.69
161			WCO: Wall Cleanout, J.R. SMITH 4710 1: Acid Resisting Coated Cast Iron Cleanout Tee, Countersunk Bronze Plug, Round Stainless Steel Secured Access Cover, Standard Fasteners.	EA	4	0%	4	0.81	$ 95.00	$ 77.14	$ 95.00	$ 172.14	$ 688.56
			VALVES										
162			Dia 2-1/2" Master Shuttoff Valve	EA	1	0%	1	0.80	$ 95.00	$ 76.00	$ 180.00	$ 256.00	$ 256.00
163			Dia 1-1/2" Main Shuttoff Valve	EA	2	0%	2	0.50	$ 95.00	$ 47.50	$ 90.00	$ 137.50	$ 275.00
164			Dia 2" Back Flow Preventer	EA	2	0%	2	2.00	$ 95.00	$ 190.00	$ 650.00	$ 840.00	$ 1,680.00
165			1/2" Dia Mixing Valves	EA	14	0%	14	0.40	$ 95.00	$ 38.00	$ 95.00	$ 133.00	$ 1,862.00
			PLUMBING ACCESSORIES										
166			Condensate Evaporator Pan, SUPCO, Model: 70	EA	2	0%	2	0.95	$ 95.00	$ 90.44	$ 203.00	$ 293.44	$ 586.88
167			TP, Trap Primmer 3/4" / 1/2" Tee Ball Valve, CONBARCO INDUSTRIES Distribution Unit	EA	1	0%	1	1.00	$ 95.00	$ 95.00	$ 120.00	$ 215.00	$ 215.00
168			TP, Trap Primmer Or Provide Access Wall Panel, Where Allowed By AHJ 3/4" / 1/2" Tee Ball Valve, CONBARCO INDUSTRIES Distribution Unit	EA	9	0%	9	1.00	$ 95.00	$ 95.00	$ 120.00	$ 215.00	$ 1,935.00
			VTRs										
169			VTR, 2" Dia Vent Thuru Roof (2EA) One Piece Spun Aluminum Base (2EA) Adjustable Steel Clamps	EA	1	0%	1	1.12	$ 95.00	$ 106.40	$ 95.00	$ 201.40	$ 201.40
170			VTR, 4" Dia Vent Thuru Roof (2EA) One Piece Spun Aluminum Base (2EA) Adjustable Steel Clamps	EA	1	0%	1	1.32	$ 95.00	$ 125.40	$ 140.00	$ 265.40	$ 265.40
			GAS ACCESSORIES										
171			Union	EA	1	0%	1	0.30	$ 95.00	$ 28.50	$ 22.15	$ 50.65	$ 50.65
172			Ball Valve Or Plug Valve	EA	1	0%	1	0.40	$ 95.00	$ 38.00	$ 38.62	$ 76.62	$ 76.62
173			Capped Tee Fitting	EA	1	0%	1	0.63	$ 95.00	$ 59.38	$ 25.00	$ 84.38	$ 84.38
174			MAXITROL Model 325 Pressure Regulator With Model 13A15 Vent Protector	EA	1	0%	1	1.00	$ 95.00	$ 95.00	$ 160.00	$ 255.00	$ 255.00

DETAILED BREAKDOWN OF ITEMS

Prepared for: Crunch Fitness 1334 Winston Plaza Melrose Park, IL 60160
Project ID: 8282026
Scope: Plumbing

NEDES
National Estimating, Drafting & Engineering Services
+1 (708) 381-0900

Date: 7-Oct-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
			PIPE SUPPORT										
175			Adjustable Band Hanger	EA	190	0%	190	0.15	$ 95.00	$ 14.25	$ 3.50	$ 17.75	$ 3,372.50
176			All Threaded Rod	EA	190	0%	190	0.10	$ 95.00	$ 9.50	$ 4.00	$ 13.50	$ 2,565.00
177			Top Beam C-Clamp	EA	190	0%	190	0.10	$ 95.00	$ 9.50	$ 3.00	$ 12.50	$ 2,375.00
178			Miro Industries, INC, Model 1.5 Pillow Block Pipe Support	EA	60	0%	60	0.25	$ 95.00	$ 23.75	$ 18.00	$ 41.75	$ 2,505.00
												SUBTOTAL	**$ 189,907**
												PROJECTED COST	**$219,918**
OVERHEAD AND PROFIT (15%+15%)												**30%**	**$65,975**
SUBCONTRACTOR MARGIN												**10%**	**$8,987**
INSURANCE												**3%**	**$6,598**
CONTINGENCY												**5%**	**$10,996**
TAX												**10.5%**	**$11,387**
SUGGESTED BID													**$323,861**

DETAILED BREAKDOWN OF ITEMS

Prepared for: Crunch Fitness 1334 Winston Plaza Melrose Park, IL 60160
Project ID: 8282026
Scope: Plumbing

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National Estimating, Drafting & Engineering Services
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SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
	PLUMBING				
	COLD WATER PIPE (ABOVE GRADE)				
	Type "L (B)" Copper Drawn (H) Tubing With Wrough Copper And Bronze Fittings And Cast iron Coted Joints (ASTM B 88M) (ASTM B16.18) (ASTM B32)				
	1 CUT LENGTH = 10 LF				
1	1/2" Dia Cold Water Pipe	EA	17	0%	17
2	3/4" Dia Cold Water Pipe	EA	22	0%	22
3	1" Dia Cold Water Pipe	EA	13	0%	13
4	1-1/4" Dia Cold Water Pipe	EA	2	0%	2
5	1-1/2" Dia Cold Water Pipe	EA	2	0%	2
6	2" Dia Cold Water Pipe	EA	18	0%	18
7	2-1/2" Dia Cold Water Pipe	EA	19	0%	19
	1/2" Thick, Glass Fiber Pipe Insulation, Rigid Molded, Noncombustible K Value ASTM C 177, KNAUF Johns Manvile Corporation				
	1 CUT LENGTH = 10 LF				
8	1/2" Dia Cold Water Pipe	EA	17	0%	17
9	3/4" Dia Cold Water Pipe	EA	22	0%	22
10	1" Dia Cold Water Pipe	EA	13	0%	13
11	1-1/4" Dia Cold Water Pipe	EA	2	0%	2
12	1-1/2" Dia Cold Water Pipe	EA	2	0%	2
13	2" Dia Cold Water Pipe	EA	18	0%	18
14	2-1/2" Dia Cold Water Pipe	EA	19	0%	19
	COLD WATER PIPE FITTINGS				
	ELBOW				
15	Dia 1/2" 90 Deg Elbow	EA	16	0%	16
16	Dia 3/4" 90 Deg Elbow	EA	24	0%	24
17	Dia 1" 90 Deg Elbow	EA	10	0%	10
18	Dia 2" 90 Deg Elbow	EA	4	0%	4
19	Dia 2-1/2" 90 Deg Elbow	EA	4	0%	4
	TEE				
20	Dia 1/2" Tee	EA	1	0%	1
21	Dia 3/4" Tee	EA	6	0%	6
22	Dia 1" Tee	EA	9	0%	9
23	Dia 2" Tee	EA	2	0%	2
24	Dia 2-1/2" Tee	EA	1	0%	1
25	Dia 3/4" / 1/2" Tee	EA	8	0%	8
26	Dia 3/4" / 2" Tee	EA	11	0%	11
27	Dia 1-1/2" / 1" Tee	EA	4	0%	4
28	Dia 1" / 1/2" Tee	EA	1	0%	1
29	Dia 1-1/4" / 3/4" Tee	EA	1	0%	1
30	Dia 2" / 1/2" Tee	EA	6	0%	6
31	Dia 2" / 1" Tee	EA	2	0%	2
32	Dia 2-1/2" / 3/4" Tee	EA	1	0%	1
33	Dia 2-1/2" / 1-1/2" Tee	EA	1	0%	1
34	Dia 1-1/4" / 1-1/2" Tee	EA	2	0%	2
35	Dia 2" / 1-1/2" / 3/4" Tee	EA	1	0%	1
36	Dia 1" / 1-1/4" / 3/4" Tee	EA	1	0%	1
37	Dia 1" / 3/4" / 1/2" Tee	EA	1	0%	1
	REDUCER				
38	Dia 1-1/2" / 1" Reducer	EA	2	0%	2
39	Dia 2" / 1-1/2" Reducer	EA	2	0%	2
	HOT WATER PIPE (ABOVE GRADE)				
	Type " DiaL (B)" Dia Copper Drawn (H) Tubing With Wrough Copper And Bronze Fittings And Cast iron Coted Joints (ASTM B 88M) (ASTM B16.18) (ASTM B32)				

DETAILED BREAKDOWN OF ITEMS

Prepared for: Crunch Fitness 1334 Winston Plaza Melrose Park, IL 60160
Project ID: 8282026
Scope: Plumbing

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National Estimating, Drafting & Engineering Services
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SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
	1 CUT LENGTH = 10 LF				
40	1/2" Dia Hot Water Pipe	EA	8	0%	8
41	3/4" Dia Hot Water Pipe	EA	16	0%	16
42	1" Dia Hot Water Pipe	EA	8	0%	8
43	1-1/4" Dia Hot Water Pipe	EA	1	0%	1
44	1-1/2" Dia Hot Water Pipe	EA	15	0%	15
	1" Thick, Glass Fiber Pipe Insulation, Rigid Molded, Noncombustible K Value ASTM C 177, KNAUF Johns Manvile Corporation				
	1 CUT LENGTH = 10 LF				
45	1/2" Dia Hot Water Pipe	EA	8	0%	8
46	3/4" Dia Hot Water Pipe	EA	16	0%	16
47	1" Dia Hot Water Pipe	EA	8	0%	8
48	1-1/4" Dia Hot Water Pipe	EA	1	0%	1
49	1-1/2" Dia Hot Water Pipe	EA	15	0%	15
	HOT WATER PIPE FITTINGS				
	ELBOW				
50	Dia 1/2" 90 Deg Elbow	EA	4	0%	4
51	Dia 3/4" 90 Deg Elbow	EA	20	0%	20
52	Dia 1" 90 Deg Elbow	EA	5	0%	5
53	Dia 1-1/2" 90 Deg Elbow	EA	6	0%	6
	TEE				
54	Dia 3/4" Tee	EA	2	0%	2
55	Dia 1-1/2" / 3/4" Tee	EA	2	0%	2
56	Dia 1" / 1/2" Tee	EA	4	0%	4
57	Dia 1-1/4" / 3/4" Tee	EA	2	0%	2
58	Dia 1-1/2" / 3/4" Tee	EA	3	0%	3
59	Dia 1" / 1-1/4" / 3/4" Tee	EA	2	0%	2
60	Dia 1-1/2" / 1-1/4" / 3/4" Tee	EA	2	0%	2
61	Dia 1-1/2" / 3/4" / 1/2" Tee	EA	1	0%	1
62	Dia 1-1/2" / 1/2" Tee	EA	2	0%	2
	REDUCER				
63	Dia 1" / 1/2" Reducer	EA	2	0%	2
	HOT WATER RETURN PIPE (ABOVE GRADE)				
	Type "L (B)" Copper Drawn (H) Tubing With Wrough Copper And Bronze Fittings And Cast iron Coted Joints (ASTM B 88M) (ASTM B16.18) (ASTM B32)				
	1 CUT LENGTH = 10 LF				
64	3/4" Dia Hot Water Return Pipe	EA	10	0%	10
	1" Thick, Glass Fiber Pipe Insulation, Rigid Molded, Noncombustible K Value ASTM C 177, KNAUF Johns Manvile Corporation				
	1 CUT LENGTH = 10 LF				
65	3/4" Dia Hot Water Return Pipe	EA	10	0%	10
	HOT WATER RETURN PIPE FITTINGS				
	ELBOW				
66	Dia 3/4" 90 Deg Elbow	EA	5	0%	5
	TEE				
67	Dia 3/4" Tee	EA	1	0%	1
	WASTE PIPE (BELOW SLAB)				
	Service Weight Cast Iron Pipe With Hub And Spigot Joints CISPI HSN Compression Type With Astm A74 Neoprene Gaskets Or Lead And Oakum				
	1 CUT LENGTH = 10 LF				
68	4" Dia Waste Pipe	EA	22	0%	22
69	2" Dia Waste Pipe	EA	22	0%	22
70	3" Dia Waste Pipe	EA	1	0%	1
	WASTE PIPE FITTINGS				
	ELBOW				
71	4" Dia Waste Pipe 45 Degree Elbow	EA	20	0%	20
72	3" Dia Waste Pipe 45 Degree Elbow	EA	2	0%	2
73	2" Dia Waste Pipe 45 Degree Elbow	EA	46	0%	46
	WYE				
74	4" Dia Waste Pipe Wye Comb Joint	EA	9	0%	9
75	2" Dia Waste Pipe Wye Comb Joint	EA	1	0%	1
76	4" / 2" Dia Waste Pipe Wye Comb Joint	EA	21	0%	21
	WASTE PIPE (ABOVE GROUND)				

DETAILED BREAKDOWN OF ITEMS

Prepared for: Crunch Fitness 1334 Winston Plaza Melrose Park, IL 60160
Project ID: 8282026
Scope: Plumbing

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SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
	Service Weight Cast Iron Pipe With Hub And Spigot Joints CISPI HSN Compression Type With Astm A74 Neoprene Gaskets Or Lead And Oakum				
	1 CUT LENGTH = 10 LF				
77	3" Dia Waste Pipe	EA	1	0%	1
78	2" Dia Waste Pipe	EA	7	0%	7
	WASTE PIPE FITTINGS				
	WYE				
79	2" Dia Waste Pipe Wye Comb Joint	EA	20	0%	20
80	3"/ 2" Dia Waste Pipe Wye Comb Joint	EA	1	0%	1
	VENT PIPE (ABOVE GRADE)				
	Service Weight Cast Iron Pipe With Hub And Spigot Joints CISPI HSN Compression Type With Astm A74 Neoprene Gaskets Or Lead And Oakum				
	1 CUT LENGTH = 10 LF				
81	3" Dia Vent Pipe	EA	16	0%	16
82	4" Dia Vent Pipe	EA	2	0%	2
83	2" Dia Vent Pipe	EA	26	0%	26
84	1-1/2" Dia Vent Pipe	EA	18	0%	18
	VENT PIPE FITTINGS				
	ELBOW				
85	3" Dia Vent Pipe 90 Degree Elbow	EA	4	0%	4
86	2" Dia Vent Pipe 90 Degree Elbow	EA	22	0%	22
87	1-1/2" Dia Vent Pipe 90 Degree Elbow	EA	7	0%	7
	TEE				
88	2" Dia Vent Pipe Tee Joint	EA	1	0%	1
89	3" / 2" Dia Vent Pipe Tee Joint	EA	18	0%	18
90	4" / 3" Dia Vent Pipe Tee Joint	EA	1	0%	1
91	3" / 1-1/2" Dia Vent Pipe Tee Joint	EA	8	0%	8
	REDUCER				
92	3" / 2" Dia Vent Pipe Reducer	EA	1	0%	1
93	3" / 1-1/2" Dia Vent Pipe Reducer	EA	1	0%	1
	CONDENSATE DRAINAGE PIPE (ABOVE GROUND)				
	Schedule 40 PVC Pipe With ASTM Standards And Fittings (Material Assumed)				
	1 CUT LENGTH = 10 LF				
94	1-1/4" Dia Condensate Drainage Pipe	EA	18	0%	18
95	1" Dia Condensate Drainage Pipe	EA	29	0%	29
96	3/8" Dia Condensate Drainage Pipe	EA	1	0%	1
	1/2" Thick Fiberglass Insulation With ASTM Standards (Insulation Assumed)				
	1 CUT LENGTH = 10 LF				
97	1-1/4" Dia Condensate Drainage Pipe	EA	18	0%	18
98	1" Dia Condensate Drainage Pipe	EA	29	0%	29
99	3/8" Dia Condensate Drainage Pipe	EA	1	0%	1
	CONDENSATE DRAINAGE PIPE FITTINGS				
	ELBOW				
100	1-1/4" Dia Condensate Pipe 90 Degree Elbow	EA	2	0%	2
101	1" Dia Condensate Pipe 90 Degree Elbow	EA	9	0%	9
102	3/8" Dia Condensate Pipe 90 Degree Elbow	EA	2	0%	2
	WYE				
103	1" Dia Condensate Pipe Wye Comb Joint	EA	3	0%	3
104	1-1/4" / 1" Dia Condensate Pipe Wye Comb Joint	EA	1	0%	1
	REDUCER				
105	1-1/4" / 1" Dia Condensate Pipe Reducer	EA	2	0%	2
	GAS PIPE (ABOVE GRADE)				
	Schedule 40 Black Steel Pipe With Welded Joints NFPA 54, (ASTM B31.1)				
	1 CUT LENGTH = 10 LF				
106	3/4" Dia Gas Pipe	EA	18	0%	18
	GAS PIPE FITTINGS				
	ELBOW				
107	Dia 3/4" 90 Deg Elbow	EA	17	0%	17
	PLUMBING FIXTURES				

DETAILED BREAKDOWN OF ITEMS

Prepared for: **Crunch Fitness 1334 Winston Plaza Melrose Park, IL 60160**
Project ID: **8282026**
Scope: **Plumbing**

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SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
108	LAV-1: Stainless Steel Lavatory, KOHLER CAXTON K-20000 FAUCET: AMERICAN STANDARD 1186.101.002, MANUAL OPERATION SUPPLIES: PROFLO PFXCAC32CL12. PROTECTIVE PIPE COVERS: PROFLO PFPTB108, PROFLO PF202WH. Notes: 1: Rectangle Undermount Sink, Virtuous China, Size: 20-1/4" X 15-11/16" X 7 5/16", Less Overflow, Ada Compliant. Faucet: American Standard 1186.101.002. Protective Pipe Covers: Ada Compliant, China White, Anti-Bacterial/Fungal, Molded Vinyl, P-Trap Cover, Two Angle Valve And Supply Covers, 5" Offset Tailpiece Wheelchair Strainer Cover.	EA	6	0%	6
109	LAV-2: Lavatory, AMERICAN STANDARD LUCERNE 0356.421 FAUCET: AMERICAN STANDARD 1186.101.002, MANUAL OPERATION SUPPLIES: PROFLO PFXCAC32CL12. PROTECTIVE PIPE COVERS: PROFLO PFPTB108, PROFLO PF202WH. Notes: 1: Wall Hung, Vitreous China, D-Shaped Bowl, Front Overflow, Self-Draining Deck Area With Contoured Back And Side Splash Shields, Concealed Wall Hanger, Rectangular Shaped Lavatory, 1 Faucet Hole Centered, Less Soap Dispenser Hole, Ada Compliant, Color White. Faucet: 0.5 GPM Pressure Compensating Vandal-Resistant Multi-Laminar Spray, 3/8" Threaded Male Inlet Shanks, Single Hole Installation. Supplies: Chrome Plated Angle Stops With Loose Key Handle, Chrome Plated Flexible Brass Riser, Insulate All Exposed Water Lines And Valves. Waste: Grid Drain Strainer, 1-1/2" Offset Tailpiece, 1-1/2" Chrome 17 Gauge Chrome Plated Adjustable Brass P-Trap With Cleanout Plug, 1-1/2" Chrome Plated Brass Waste To Wall. Protective Pipe Covers: Ada Compliant, China White, Anti-Bacterial/Fungal, Molded Vinyl, P-Trap Cover, Two Angle Valve And Supply Covers, 5" Offset Tailpiece Wheelchair Strainer Cover.	EA	1	0%	1
110	DF: Stainless Steel Drinking Fountain, ELKAY EZSTL8WSSK ELKAY EZSTL8WSSK EZH20, Bottle Filling Station And Versatile Bi-Level Ada Cooler, Non-Filtered, Refrigerated, Stainless 1: Rectangular Shaped Bowl, Wall Hung, Exposed On Wall, Countoured Shock Absorbing Upper Shroud, No Exposed Fasteners, High Side On The Left, Easy-Touch Controls On The Front Only, Refrigerated Unit, Refrigerant Hfc-134a Controlled By Capillary Tube, Flow Rate Of 8.0 Gph, Barrier Free Self-Contained, One Piece Polished Stainless Steel Basin, Integral Drain Grid, Embossed Bubbler, Lead-Free Waterways, Easily Cleanable Screen, Bottle Filling Station. Gauge Chrome Plated Brass Adjustable P-Trap With Cleanout Plug, 1-1/2" Chrome Plated Brass Waste To Wall, Concealed In Unit.	EA	1	0%	1
111	WC: Water Closet, AMERICAN STANDARD 3043.001 Flushing System: SLOAN CROWN 111-1.28 GPF, Manual Flush Valve, Seat: AMERICAN STANDARD 5901.100 Notes: 1: Water Closet: Manual Flush Valve Operation, Vitreous China, Conventional Glaze, 1.28 GPF, Floor Mounted, Back Outlet, 1-1/2" Top Inlet Spud, 25 Psi Minimum Working Pressure, Color: White. Flushing System: 1.28 GPF, Sloan Crown 111-1.28 GPF, Inlet Includes 1" Sweat Solder Kit And Angle Stop With Backflow Protection And Vandal-Resistant Cap. Chemical Resistant Epdm Seals, High Back Pressure Vacuum Breaker, Adjustable Tailpiece. Seat: American Standard #5901.100, Elongated Heavy Duty Seat, Open Front	EA	6	0%	6
112	WCA: (ADA) Water Closet, AMERICAN STANDARD 3043.001 Flushing System: SLOAN CROWN 111-1.28 GPF, Manual Flush Valve, Seat: AMERICAN STANDARD 5901.100 Notes: 1: Water Closet: Manual Flush Valve Operation, Vitreous China, Conventional Glaze, 1.28 GPF, Floor Mounted, Back Outlet, 1-1/2" Top Inlet Spud, 25 Psi Minimum Working Pressure, Color: White. Flushing System: 1.28 GPF, Sloan Crown 111-1.28 GPF, Inlet Includes 1" Sweat Solder Kit And Angle Stop With Backflow Protection And Vandal-Resistant Cap. Chemical Resistant Epdm Seals, High Back Pressure Vacuum Breaker, Adjustable Tailpiece. Seat: American Standard #5901.100, Elongated Heavy Duty Seat, Open Front	EA	3	0%	3
113	MS: Mop Sink, PROFLO PFMB2424 Faucet: PROFLO PF1119, 24" Long X 3" Wide Stainless Steel Mop Bracket With Three Rubber Grips, 36" Hose With Hanger. 1: High-Density Composite Basin, Plain Curbs, One Piece 24"X24"X10" Square Basin, Stainless Steel Drain Body, Factory Installed Stainless Steel Drain Body, Cast Iron P-Trap.	EA	1	0%	1
114	UR: Urinal, AMERICAN STANDARD 6561.017.02 Flushing System: SLOAN 186-0.5, Manual Flush Valve, CARRIER: ZURN Z1222 Notes: 1: 0.5 GPF, 3/4" Inlet Spud, Wall Mounted, Flush System: Sloan 186-0.5 GPF, Polished Chrome Finish.	EA	2	0%	2
115	FS-1: Floor Sink, OATLEY 42721	EA	1	0%	1
116	HB-1: Hose Bibb, WATTS HY-420 1: Wall Hydrant With Chrome Plated Face, Integral Vacuum Breaker, All Bronze Head, Seat Casting And Integral Working Parts, Bronze Wall Casing, And Loose Key. Complies With Asse 1019-2004, Upc/Iampo Listed. Max. Operating Pressure 125 Psi.	EA	2	0%	2

DETAILED BREAKDOWN OF ITEMS

Prepared for: Crunch Fitness 1334 Winston Plaza Melrose Park, IL 60160
Project ID: 8282026
Scope: Plumbing

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SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
117	HB-2: Hose Bib, WOODFORD 24 1: Rough Bronze Exterior, Exposed, Anti-Siphon, All Bronze Interior Wall Faucet, Vandal-Resistant Loose Tee Handle Operating Stem, Adjustable Packing Nut, External Tamper Proof Vacuum Breaker Mild Climate Construction	EA	1	0%	1
118	S-1: Breakroom Sink, ELKAY LRAD1151750 Faucet: DELTA 1959LF CHROME BAR FAUCET 1: 18-Gauge Stainless Steel, Single Compartment Sink, Self Rimming With 1-3/4" Radius Cover Corners, Fully Coated Underside, 1 Hole, 15" X 17-1/2" X 5". Delta 1959lf Chrome Bar Faucet With Chrome Single Lever Handle. Polished Chrome Finish, Basket Strainer And Drain	EA	1	0%	1
119	SHW-2: Shower, PEERLESS PTT14265 1: Ada Compliant, Pressure Balancing Mixing Valve With Lever Handle, Integral Service Stops, Adjustable Stop Screw, Zinc Construction, Chrome Finish. All Parts Adjustable From The Front Of The Valve, 1.5 GPM, Swivel Joint Shower Head With Rain Spray Pattern.	EA	7	0%	7
120	SHW-1: Accessible Shower, PEERLESS PTT24247 1: Ada Compliant, Pressure Balancing Mixing Valve With Lever Handle, Integral Service Stops, Adjustable Stop Screw, Zinc Construction. Wall/Hand Shower With Flexible Metal Hose, In-Line Vacuum Breaker, 24" Slide Bar, 1.5 GPM, Chrome Finish, Swivel Joint, Handheld Shower Head	EA	3	0%	3
121	WHA: Water Hammer Arrestor, SIOUX CHIEF 652-D	EA	11	0%	11
122	WB-1: Washer Wall Box, SYMMONS W-602X (Provide By Owner Install By GC)	EA	1	0%	1
	WATER HEATER				
123	IWH-1, Instaneous Water Heater, .07 Gallons, Type: Electric, Manufacturer: STEIBEL ELTRON, Model: DHC-E PLUS 12/15-2	EA	1	0%	1
124	WH-1: Gas Water Heater, RINNAI CU199I Provide Cascade Harness For Temperature Control, Flange Kit For Recirculation Pump With HONEYWELL L6006C Aquastat Controller, And Commercial Neutralization Tank With Media. 199,000 Btu Each, Energy Efficiency Of 95%. See Detail For Additional Information. Extend Drain Line To Approved Receptor With Air Gap. Plumbing Contractor To Provide Start-Up And Complete Installation Of Each Unit In Total Conformance With The Manufacturer's Installation Instructions.	EA	1	0%	1
125	WH-2: Gas Water Heater, RINNAI CU199I Provide Cascade Harness For Temperature Control, Flange Kit For Recirculation Pump With HONEYWELL L6006C Aquastat Controller, And Commercial Neutralization Tank With Media. 199,000 Btu Each, Energy Efficiency Of 95%. See Detail For Additional Information. Extend Drain Line To Approved Receptor With Air Gap. Plumbing Contractor To Provide Start-Up And Complete Installation Of Each Unit In Total Conformance With The Manufacturer's Installation Instructions.	EA	1	0%	1
126	WH-3: Gas Water Heater, RINNAI CU199I Provide Cascade Harness For Temperature Control, Flange Kit For Recirculation Pump With HONEYWELL L6006C Aquastat Controller, And Commercial Neutralization Tank With Media. 199,000 Btu Each, Energy Efficiency Of 95%. See Detail For Additional Information. Extend Drain Line To Approved Receptor With Air Gap. Plumbing Contractor To Provide Start-Up And Complete Installation Of Each Unit In Total Conformance With The Manufacturer's Installation Instructions.	EA	1	0%	1
	PUMP				
127	RP: Recirculation Pump, GRUNDFOS UPS 26-99 1: Provide Grundfos Direct Flow Sensor At Cold Water Inlet To Water Heater Bank For Hot Water Demand Control. Pump Shall Be Tied To Aquastat Controller And Flow Sensor And Shall Switch Off As Target Temperature Is Reached And No Demand For Hot Water Is Required.	EA	1	0%	1
	MISCELLANEOUS				
	CLEANOUTS & DRAINS				
128	FD-1: Floor Drain, ZURN ZN415-4NH-6BZ1 1: Dura-Coated Cast Iron Body With Bottom Outlet, Combination Invertible Membrane Clamp And Adjustable Collar With Seepage Slots And Type "B" Polished Nickel Bronze, Light Duty Heel Proof Strainer.	EA	22	0%	22
129	CO: Floor Cleanout: WADE W-6000-Z-1-12-75 1: Cast Iron Ferrule And Plug, Dura-Coated Cast Iron, Double-Flanged Housing, And Extra Heavy Duty Scoriated Cast Iron Cover With Lifting Device, Vandal-Proof Screws.	EA	7	0%	7
130	WCO: Wall Cleanout, J.R. SMITH 4710 1: Acid Resisting Coated Cast Iron Cleanout Tee, Countersunk Bronze Plug, Round Stainless Steel Secured Access Cover, Standard Fasteners.	EA	4	0%	4
	VALVES				
131	Dia 2-1/2" Master Shuttoff Valve	EA	1	0%	1
132	Dia 1-1/2" Main Shuttoff Valve	EA	2	0%	2
133	Dia 2" Back Flow Preventer	EA	2	0%	2
134	1/2" Dia Mixing Valves	EA	14	0%	14
	PLUMBING ACCESSORIES				
135	Condensate Evaporator Pan, SUPCO, Model: 70	EA	2	0%	2

DETAILED BREAKDOWN OF ITEMS

Prepared for: **Crunch Fitness 1334 Winston Plaza Melrose Park, IL 60160**
Project ID: **8282026**
Scope: **Plumbing**

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SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
136	TP, Trap Primmer 3/4" / 1/2" Tee Ball Valve, CONBARCO INDUSTRIES Distribution Unit	EA	1	0%	1
137	TP, Trap Primmer Or Provide Access Wall Panel, Where Allowed By AHJ 3/4" / 1/2" Tee Ball Valve, CONBARCO INDUSTRIES Distribution Unit	EA	9	0%	9
	VTRs				
138	VTR, 2" Dia Vent Thuru Roof (2EA) One Piece Spun Aluminum Base (2EA) Adjustable Steel Clamps	EA	1	0%	1
139	VTR, 4" Dia Vent Thuru Roof (2EA) One Piece Spun Aluminum Base (2EA) Adjustable Steel Clamps	EA	1	0%	1
	GAS ACCESSORIES				
140	Union	EA	1	0%	1
141	Ball Valve Or Plug Valve	EA	1	0%	1
142	Capped Tee Fitting	EA	1	0%	1
143	MAXITROL Model 325 Pressure Regulator With Model 13A15 Vent Protector	EA	1	0%	1
	PIPE SUPPORT				
144	Adjustable Band Hanger	EA	190	0%	190
145	All Threaded Rod	EA	190	0%	190
146	Top Beam C-Clamp	EA	190	0%	190
147	Miro Industries, INC, Model 1.5 Pillow Block Pipe Support	EA	60	0%	60