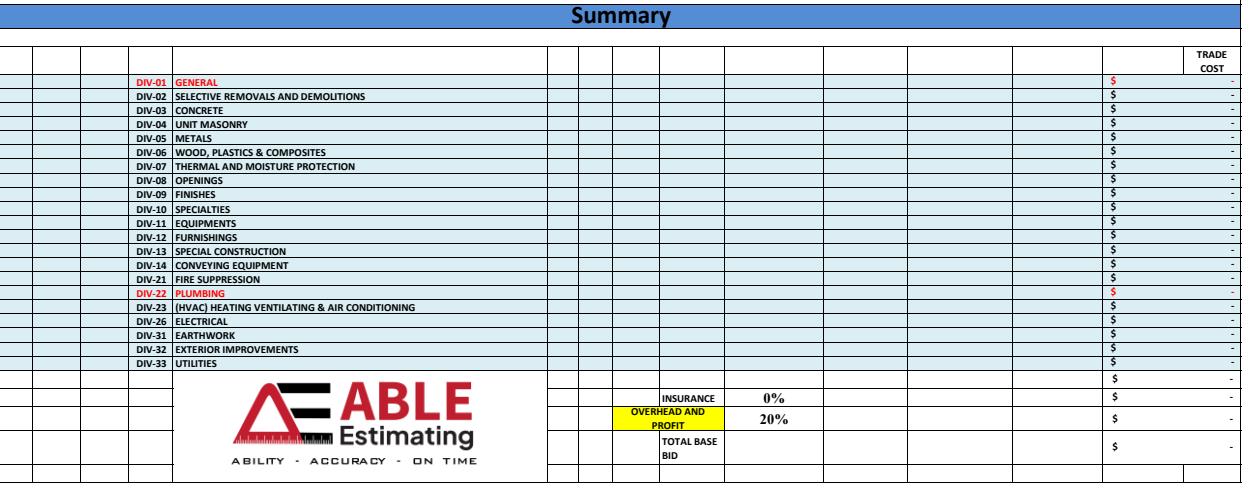


| Estimate of Materials and Cost of Construction |                          |  |                     |     |  |        |
|------------------------------------------------|--------------------------|--|---------------------|-----|--|--------|
| Date:                                          |                          |  |                     |     |  | Amount |
| Project:                                       | Plumbing Project Takeoff |  | TOTAL               |     |  | \$ -   |
| Project Location:                              | Philadelphia, PA         |  | OVERHEAD AND PROFIT | 20% |  | \$ -   |
|                                                |                          |  | TOTAL BASE BID      |     |  | \$ -   |



ABILITY - ACCURACY - ON TIME



## Detailed Estimate

1 of

|                            |  |                                                                                                         |    |     |     |     |  |    |   |    |   |    |   |
|----------------------------|--|---------------------------------------------------------------------------------------------------------|----|-----|-----|-----|--|----|---|----|---|----|---|
| 65                         |  | WM: Washing Machine (PPP Inc. MM-500LB)                                                                 | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Connections</b>                                                                                      |    |     |     |     |  |    |   |    |   |    |   |
| 66                         |  | 90 Degree Bend                                                                                          | EA | 22  | 0%  | 22  |  | \$ | - | \$ | - | \$ | - |
| 67                         |  | Tee                                                                                                     | EA | 9   | 0%  | 9   |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>4th Floor</b>                                                                                        |    |     |     |     |  |    |   |    |   |    |   |
|                            |  | <b>Piping</b>                                                                                           |    |     |     |     |  |    |   |    |   |    |   |
| 68                         |  | Ø3" Sanitary Pipe                                                                                       | LF | 61  | 10% | 68  |  | \$ | - | \$ | - | \$ | - |
| 69                         |  | Ø4" Sanitary Pipe                                                                                       | LF | 21  | 10% | 23  |  | \$ | - | \$ | - | \$ | - |
| 70                         |  | Ø4" Storm Pipe                                                                                          | LF | 20  | 10% | 22  |  | \$ | - | \$ | - | \$ | - |
| 71                         |  | Ø2" Vent Pipe                                                                                           | LF | 77  | 10% | 85  |  | \$ | - | \$ | - | \$ | - |
| 72                         |  | Ø3" Vent Pipe                                                                                           | LF | 24  | 10% | 26  |  | \$ | - | \$ | - | \$ | - |
| 73                         |  | Ø4" Vent Pipe                                                                                           | LF | 10  | 10% | 11  |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Fixtures/Valves</b>                                                                                  |    |     |     |     |  |    |   |    |   |    |   |
| 74                         |  | BT: Bathtub (American Standard Cadet 6'x3')                                                             | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
| 75                         |  | SH: Shower (Tile REDI, 3754L) - Assumed                                                                 | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
| 76                         |  | KS: Kitchen Sink (Kraus, KHU121-23)                                                                     | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
| 77                         |  | LAV: Lavatory (Decolav, 1482)                                                                           | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
| 78                         |  | WC: Water Closet (EAGO, EG-TB309)                                                                       | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
| 79                         |  | WM: Washing Machine (PPP Inc. MM-500LB)                                                                 | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Connections</b>                                                                                      |    |     |     |     |  |    |   |    |   |    |   |
| 80                         |  | 90 Degree Bend                                                                                          | EA | 18  | 0%  | 18  |  | \$ | - | \$ | - | \$ | - |
| 81                         |  | Tee                                                                                                     | EA | 5   | 0%  | 5   |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Mezzanine</b>                                                                                        |    |     |     |     |  |    |   |    |   |    |   |
|                            |  | <b>Piping</b>                                                                                           |    |     |     |     |  |    |   |    |   |    |   |
| 82                         |  | Ø3" Sanitary Pipe                                                                                       | LF | 1   | 10% | 1   |  | \$ | - | \$ | - | \$ | - |
| 83                         |  | Ø4" Sanitary Pipe                                                                                       | LF | 11  | 10% | 13  |  | \$ | - | \$ | - | \$ | - |
| 84                         |  | Ø4" Storm Pipe                                                                                          | LF | 20  | 10% | 22  |  | \$ | - | \$ | - | \$ | - |
| 85                         |  | Ø3" Vent Pipe                                                                                           | LF | 13  | 10% | 15  |  | \$ | - | \$ | - | \$ | - |
| 86                         |  | Ø4" Vent Pipe                                                                                           | LF | 25  | 10% | 28  |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Fixtures/Valves</b>                                                                                  |    |     |     |     |  |    |   |    |   |    |   |
| 87                         |  | HD: Hub Drain                                                                                           | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
| 88                         |  | Overflow Scupper Box                                                                                    | EA | 4   | 0%  | 4   |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Domestic Basement</b>                                                                                |    |     |     |     |  |    |   |    |   |    |   |
|                            |  | <b>Piping</b>                                                                                           |    |     |     |     |  |    |   |    |   |    |   |
| 89                         |  | Ø1" Cold Water Pipe                                                                                     | LF | 24  | 10% | 26  |  | \$ | - | \$ | - | \$ | - |
| 90                         |  | Ø1-1/2" Cold Water Pipe                                                                                 | LF | 29  | 10% | 32  |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Fixtures/Valves</b>                                                                                  |    |     |     |     |  |    |   |    |   |    |   |
| 91                         |  | Ball Valve                                                                                              | EA | 9   | 0%  | 9   |  | \$ | - | \$ | - | \$ | - |
| 92                         |  | BFP: Meter Backflow Preventer (Watts LF009M2QT)                                                         | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
| 93                         |  | Water Meter                                                                                             | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
| 94                         |  | Y-ST: Strainer (Watts LF777SI)                                                                          | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
| 95                         |  | Ø1" Cold Water Pipe Capped For Future Commercial Space Fit out                                          | EA | 1   | 0%  | 1   |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Connections</b>                                                                                      |    |     |     |     |  |    |   |    |   |    |   |
| 96                         |  | 90 Degree Bend                                                                                          | EA | 6   | 0%  | 6   |  | \$ | - | \$ | - | \$ | - |
| 97                         |  | Tee                                                                                                     | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>1st Floor</b>                                                                                        |    |     |     |     |  |    |   |    |   |    |   |
|                            |  | <b>Piping</b>                                                                                           |    |     |     |     |  |    |   |    |   |    |   |
| 98                         |  | Ø1" Cold Water Pipe                                                                                     | LF | 9   | 10% | 10  |  | \$ | - | \$ | - | \$ | - |
| 99                         |  | Ø1-1/2" Cold Water Pipe                                                                                 | LF | 10  | 10% | 11  |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Fixtures/Valves</b>                                                                                  |    |     |     |     |  |    |   |    |   |    |   |
| 100                        |  | Ø1" Cold Water Pipe Capped For Future Commercial Space Fitout                                           | EA | 1   | 0%  | 1   |  | \$ | - | \$ | - | \$ | - |
| 101                        |  | Ball Valve                                                                                              | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Connections</b>                                                                                      |    |     |     |     |  |    |   |    |   |    |   |
| 102                        |  | Tee                                                                                                     | EA | 1   | 0%  | 1   |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>2nd Floor</b>                                                                                        |    |     |     |     |  |    |   |    |   |    |   |
|                            |  | <b>Piping</b>                                                                                           |    |     |     |     |  |    |   |    |   |    |   |
| 103                        |  | Ø1" Cold Water Pipe                                                                                     | LF | 5   | 10% | 6   |  | \$ | - | \$ | - | \$ | - |
| 104                        |  | Ø1/2" Cold Water Pipe                                                                                   | LF | 91  | 10% | 100 |  | \$ | - | \$ | - | \$ | - |
| 105                        |  | Ø3/4" Cold Water Pipe                                                                                   | LF | 101 | 10% | 111 |  | \$ | - | \$ | - | \$ | - |
| 106                        |  | Ø1-1/2" Cold Water Pipe                                                                                 | LF | 6   | 10% | 11  |  | \$ | - | \$ | - | \$ | - |
| 107                        |  | Ø1/2" Hot Water Pipe                                                                                    | LF | 100 | 10% | 110 |  | \$ | - | \$ | - | \$ | - |
| 108                        |  | Ø3/4" Hot Water Pipe                                                                                    | LF | 29  | 10% | 31  |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Fixtures/Valves</b>                                                                                  |    |     |     |     |  |    |   |    |   |    |   |
| 109                        |  | Ball Valve                                                                                              | EA | 26  | 0%  | 26  |  | \$ | - | \$ | - | \$ | - |
| 110                        |  | EWH: Electric Water Heater<br>- Gallon: 38<br>- 4.5 KW<br>- 240 Volts<br>- Phase 1<br>- AO Smith ENJ-40 | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
| 111                        |  | ET: Expansion Tank (Amtrol EX-15 2 Gallon)                                                              | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Connections</b>                                                                                      |    |     |     |     |  |    |   |    |   |    |   |
| 112                        |  | 90 Degree Bend                                                                                          | EA | 37  | 0%  | 37  |  | \$ | - | \$ | - | \$ | - |
| 113                        |  | Tee                                                                                                     | EA | 34  | 0%  | 34  |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>3rd Floor</b>                                                                                        |    |     |     |     |  |    |   |    |   |    |   |
|                            |  | <b>Piping</b>                                                                                           |    |     |     |     |  |    |   |    |   |    |   |
| 114                        |  | Ø1" Cold Water Pipe                                                                                     | LF | 1   | 10% | 1   |  | \$ | - | \$ | - | \$ | - |
| 115                        |  | Ø1-1/2" Cold Water Pipe                                                                                 | LF | 76  | 10% | 83  |  | \$ | - | \$ | - | \$ | - |
| 116                        |  | Ø1/2" Cold Water Pipe                                                                                   | LF | 20  | 10% | 22  |  | \$ | - | \$ | - | \$ | - |
| 117                        |  | Ø3/4" Cold Water Pipe                                                                                   | LF | 131 | 10% | 144 |  | \$ | - | \$ | - | \$ | - |
| 118                        |  | Ø1/2" Hot Water Pipe                                                                                    | LF | 102 | 10% | 113 |  | \$ | - | \$ | - | \$ | - |
| 119                        |  | Ø3/4" Hot Water Pipe                                                                                    | LF | 51  | 10% | 56  |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Fixtures/Valves</b>                                                                                  |    |     |     |     |  |    |   |    |   |    |   |
| 120                        |  | Ball Valve                                                                                              | EA | 26  | 0%  | 26  |  | \$ | - | \$ | - | \$ | - |
| 121                        |  | EWH: Electric Water Heater<br>- Gallon: 38<br>- 4.5 KW<br>- 240 Volts<br>- Phase 1<br>- AO Smith ENJ-40 | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
| 122                        |  | ET: Expansion Tank (Amtrol EX-15 2 Gallon)                                                              | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Connections</b>                                                                                      |    |     |     |     |  |    |   |    |   |    |   |
| 123                        |  | 90 Degree Bend                                                                                          | EA | 36  | 0%  | 36  |  | \$ | - | \$ | - | \$ | - |
| 124                        |  | Tee                                                                                                     | EA | 32  | 0%  | 32  |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>4th Floor</b>                                                                                        |    |     |     |     |  |    |   |    |   |    |   |
|                            |  | <b>Piping</b>                                                                                           |    |     |     |     |  |    |   |    |   |    |   |
| 125                        |  | Ø1" Cold Water Pipe                                                                                     | LF | 42  | 10% | 46  |  | \$ | - | \$ | - | \$ | - |
| 126                        |  | Ø1-1/2" Cold Water Pipe                                                                                 | LF | 11  | 10% | 12  |  | \$ | - | \$ | - | \$ | - |
| 127                        |  | Ø1/2" Cold Water Pipe                                                                                   | LF | 105 | 10% | 115 |  | \$ | - | \$ | - | \$ | - |
| 128                        |  | Ø3/4" Cold Water Pipe                                                                                   | LF | 92  | 10% | 101 |  | \$ | - | \$ | - | \$ | - |
| 129                        |  | Ø1/2" Hot Water Pipe                                                                                    | LF | 84  | 10% | 92  |  | \$ | - | \$ | - | \$ | - |
| 130                        |  | Ø3/4" Hot Water Pipe                                                                                    | LF | 46  | 10% | 51  |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Fixtures/Valves</b>                                                                                  |    |     |     |     |  |    |   |    |   |    |   |
| 131                        |  | Ball Valve                                                                                              | EA | 25  | 0%  | 25  |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Connections</b>                                                                                      |    |     |     |     |  |    |   |    |   |    |   |
| 132                        |  | 90 Degree Bend                                                                                          | EA | 34  | 0%  | 34  |  | \$ | - | \$ | - | \$ | - |
| 133                        |  | Tee                                                                                                     | EA | 29  | 0%  | 29  |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Mezzanine</b>                                                                                        |    |     |     |     |  |    |   |    |   |    |   |
|                            |  | <b>Piping</b>                                                                                           |    |     |     |     |  |    |   |    |   |    |   |
| 134                        |  | Ø3/4" Cold Water Pipe                                                                                   | LF | 62  | 10% | 68  |  | \$ | - | \$ | - | \$ | - |
| 135                        |  | Ø3/4" Hot Water Pipe                                                                                    | LF | 36  | 10% | 40  |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Fixtures/Valves</b>                                                                                  |    |     |     |     |  |    |   |    |   |    |   |
| 136                        |  | Ball Valve                                                                                              | EA | 8   | 0%  | 8   |  | \$ | - | \$ | - | \$ | - |
| 137                        |  | EWH: Electric Water Heater<br>- Gallon: 38<br>- 4.5 KW<br>- 240 Volts<br>- Phase 1<br>- AO Smith ENJ-40 | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
| 138                        |  | ET: Expansion Tank (Amtrol EX-15 2 Gallon)                                                              | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Connections</b>                                                                                      |    |     |     |     |  |    |   |    |   |    |   |
| 139                        |  | 90 Degree Bend                                                                                          | EA | 19  | 0%  | 19  |  | \$ | - | \$ | - | \$ | - |
| 140                        |  | Tee                                                                                                     | EA | 2   | 0%  | 2   |  | \$ | - | \$ | - | \$ | - |
|                            |  | <b>Allowance</b>                                                                                        |    |     |     |     |  |    |   |    |   |    |   |
| 141                        |  | Allowance For Ducts, Duct Insulation & Duct Fitting (9163 SF)                                           | LS | 1   | 0%  | 1   |  | \$ | - | \$ | - | \$ | - |
| <b>SUB TOTAL</b>           |  |                                                                                                         |    |     |     |     |  |    |   |    |   | \$ | - |
| <b>INSURANCE</b>           |  |                                                                                                         |    |     |     |     |  |    |   |    |   | \$ | - |
| <b>OVERHEAD AND PROFIT</b> |  |                                                                                                         |    |     |     |     |  |    |   |    |   | \$ | - |
| <b>TOTAL BASE BID</b>      |  |                                                                                                         |    |     |     |     |  |    |   |    |   | \$ | - |