DESCRIPTION OF SHOTCRETE OPERATION

Prior to the start of the shotcrete operation we will have our wireman come on site to set shoot wires. He will set shootwires every 34” to 36” horizontally to establish face on finish for the shotcrete wall. He will be using 1/8” thick ½” wide flat bar to make his sets and to attach the shootwires to. The flat bar will be tie-wired to the front and back curtain of the rebar, sticking out horizontally every 30 t 40 feet to establish horizontal points for shootwire to be secured.

The shotcrete placing crew will then come on site. We will receive our concrete from a redi-mix truck. The truck will unload into our concrete pump. The shotcrete mix will be a pre-approved mix. This will be placed at a 2 ½” to 3” slump depending on the nozzleman’s discretion. The nozzleman will then place shotcrete on wall around rebar bringing it out to full thickness or encasing both curtains of rebar, depending on the finish required. As the nozzleman is placing shotcrete he will have the blow-pipe man working with him, blowing pea gravel out of the way to eliminate pea gravel pockets and to keep the rebar blown off. The nozzleman will place shotcrete in long horizontal lifts from shootwire to shootwire. The height of these lifts will be determined by the slump of the concrete and the thickness of wall to avoid any sluffing. After the first lift is taken up to the pre-determined height it will be allowed to take an initial set before next lift is taken. When shotcrete has taken a set but is still workable it will be rodded off by a rod-man. He will hold a rod vertically, touching shootwires to each end of the rod. He will run the rod. He will run the rod down the wall horizontally. The excess concrete will be shoveled away from base of wall to be considered unusable or called rebound. All joints where shotcrete stops and starts will be left at a 45-degree angle. Excess overspray will be blown off rebar.

***Distance of shootwires varies from description above due to the different wall situations and curvatures.