

Campbell River Gun Club 25 Meter Target Pistol Range

The former “Law Enforcement Range” was changed to a baffled 25 meter target pistol range. This was done to keep the backstop size required 4 meter high. The material of the old backstop was moved forward to build the backstop from the existing 50 meter range to the 25 meter distance. All this is to avoid ricochets and to organize the geometry so no bullet can leave the range. The shooting position is going to be standing only so the geometry will work. Eye height in this case is 1.50 meter in accordance with the building guidelines. All baffle positions and edges are measured from this eye height. From this height no range floor or sky is visible. Only a very limited opening for firing to the target line is open. 8 inch thick baffles were attached to the building and the large overhead baffle rechecked for geometry.

This wood required for the baffles, came from the condemned bullet wood that was accumulated along the 600 yard range during the logging operation that went on during last year. The logging company was very generous to us donating an articulated rock truck and a D6 Cat during the time while they were logging. The wood was condemned from going to a saw mill due to possible metal inclusions. We eventually got possession of all the hemlock logs from forestry. This started us looking for a portable sawmill and an operator to cut this logs into lumber we require to build the baffles. At the same time we identified the need for a large wooden structure acting as a ricochet catcher on the 25 meter pistol range. This roof structure over the target line ended up to be about 12 feet high 22 feet wide and 100 feet long spanning over the whole range from side berm to side berm. It is designed to catch indirect bullets so it has to be covered with 2 inch solid lumber. In short the wood required to build it was 18, 14 inch diameter logs flattened on one side for the front support and a similar amount to support the back end. Posts were driven in the backstop and 10 inch flattened logs were installed over top to support the rafters. This cutting of logs and timber was coordinated with the sawmill operator. We started to produce 4 x 10 x 20 feet long lumber to build the structure. We spanned 16 feet over the front so we used 2, 4 x 10 x 16 beams bolted together, spanning the 100 feet between the berms. We cut our “standard size” 4x10x20. As the primary size. The 6x8 for the baffles attached to the building. Some 4x4 for future table design inside the range. The rest was cut to various sizes of 2 inch thick lumber used to cover the structure. All together well into the 15000 BF of lumber.



Posts were set in the dug holes in the front and driven into the backstop on the back. Sleeper logs were placed to set the position of the support logs. They were attached to each other with re bar driven across and in the top of the back supports.



It will have two ground baffles. The one in the first picture is 5 meters from the shooting position it is inclined to prevent the exposure of the top surface of the baffle. The head baffle was checked for geometry and the second one was found not to be required because of the shortened distance and the large roof over the target position. We attached an additional baffle to the building.



The 25 meter backstop will be covered with a roof 12 feet up and 22 feet wide decked with 2 inch timbers reaching from side berm to side berm. It is only possible to build this very large structure with a big volunteer crew transporting the cut lumber to the range then sort it by size and build the structure. We have built the support structure and are about 1/4 done with the decking of the roof. Roll on roofing will go on top. As soon as the weather allows we will finish the structure and set the second ground baffle.

