BOX NUMBER 35

735

Provisional Instruction

ON

Armored Demountable Shelters for Observers

Translated from the French: "Instruction provisoire sur les Abris cuirassés démontables pour Observateurs," by the American Expeditionary Forces.

Edited at the

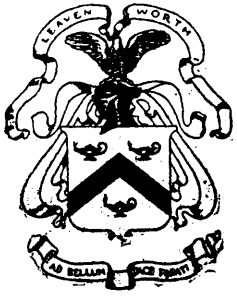
ARMY WAR COLLEGE

January, 1918

42121

THE GENERAL SERVICE SCHOOLS

LIBRARY



CLASS NUMBER M 9403-B15

ACCESSION NUMBER 42121

neral.

WAR DEPARTMENT,

WASHINGTON, *January 15, 1918.*

The following pamphlet entitled "Provisional Instructions on Demountable Shelters for Observers" is published for the information of all concerned.

[A. G. O., No. 062.1.]

BY ORDER OF THE SECRETARY OF WAR:

TASKER H. BLISS,
General, Chief of Staff.

OFFICIAL:

H. P. McCAIN,
The Adjutant General.

Ministry of War. July 25, 1916.

Department of Engineering.

PROVISIONAL INSTRUCTION

on

ARMORED DEMOUNTABLE DUGOUTS FOR LOOKOUTS

Armored demountable dugouts for lookouts are metal constructions which, having been set up, present the form either of the frustrum of a cone, or of the frustrum of a pyramid.

They are divisible into parts of which the individual weight does not exceed 70 kilos, which renders their transportation easy.

They carry three observation loopholes.

In general they should be partially sunk on top of a pit, dug in front of a trench or at the end of a gallery or covered sap. It is convenient to place them on a suitable flooring permitting entrance from underneath.

There are three types of these dugouts:

1st.—Type S. T. G. (Figure 1).—Frustrum of a cone of half hard cast steel .03 meters in thickness, which can be taken down into six rings and a cap, each one fitting into the others. The solidity of the construction is assured by four uprights passing through the cap and bolted to the bottom ring. Total weight 475 kilos.

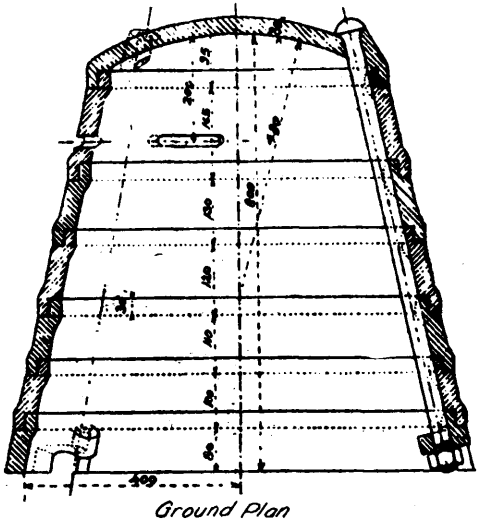
2d.—Type Saint Jacques (Figure 2).—Frustrum of a cone which can be taken down into five rings of half-hard laminated steel of .025 meters in thickness and a cap, each one fitting into the others. The solidity of the construction is assured by three uprights, supported at one end by the cap and at the other by the bottom ring. Total weight 380 kilos.

3d.—Type Saint Chamond (Figure 3).—Frustrum of a pyramid in sheets of special steel of 15 mm. in thickness which can be taken down into four faces and a roof. The structure is held together by means of four angle irons attached to the sides and roof by special steel bolts. For demounting and transport it is recommended to leave one angle iron attached to each side. Total weight 260 kilos.

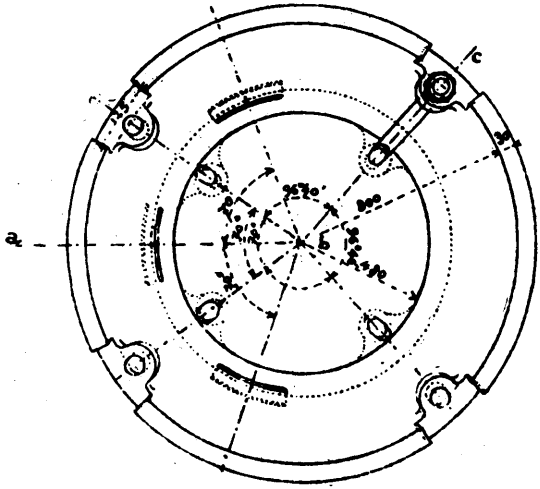
The three types of dugouts were built to resist the penetration of steel-coated bullets fired at a distance of 30 meters.

Fig. 1

Semi-section ab Semi-section b-c



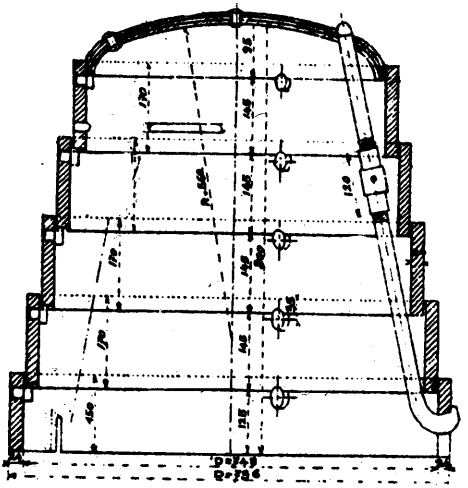
Ground Plan



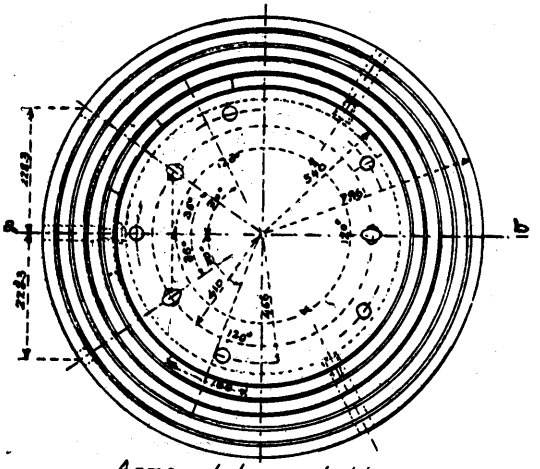
Demountable armored dugouts for lookouts Type S.T.G.

Fig. 2

Vertical Section ab



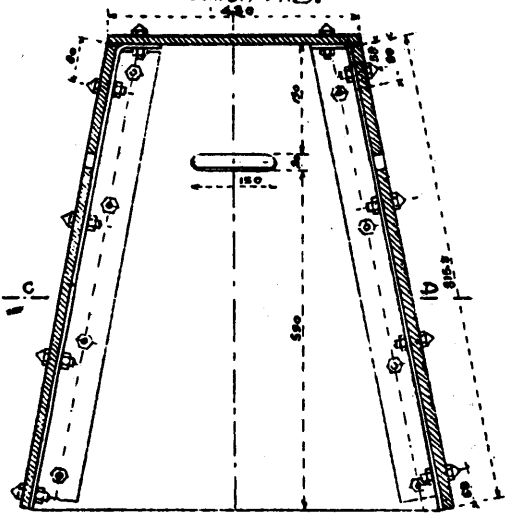
Plan



Armored demountable dugouts for lookouts Type Saint Jacques

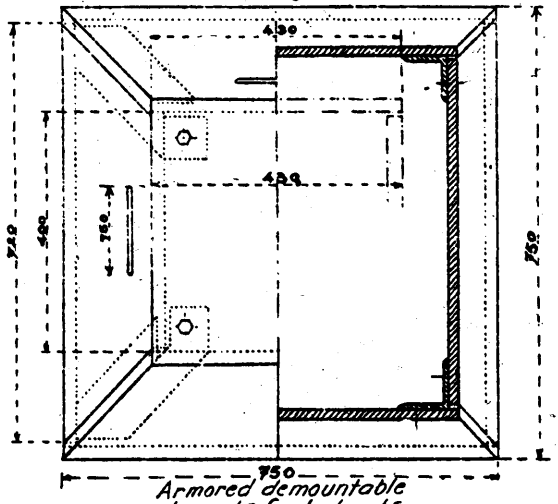
Fig. 3

Section A.B.



Half Plan

Horizontal Semi-section CD



Armored demountable dugouts for lookouts Type Saint Chamond