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E. T. D. MODEL TRENCHES.

Non-commissioned officers and
men of the E. T. D. should not
lose the opportunity of seeing the
unique model trenches which have
during the past few months been
made on elaborate scale by Lieute-
nant E. T. Adney, and a corps of
helpers, in their quarters on Cham-
plain street.

Quite apart from the historical
and instructive value the large
trench model is interesting to the
civilian as a work of art, for de-
spite its pigmy dimensions it is
most realistic and gives a very
clear conception of the conditions
in which the soldier lives as he
works his way from rear to forward
positions. It represents months of
slow, tedious work, of fabulous
exactitude since the large papier-
mache cast and the miniature revet-
ments, dugouts, bridges, telegraph
posts and barbed-wire entangle-
ments are done precisely to scale,
half an inch to the foot.

It was in 1916 that Lieutenant
Adney first saw the opportunity
of rendering a service to the
Canadian Military Authorities.
Realizing that the rigorous winter
of this latitude would preclude out-
of-door training for the men and
the impossibility of teaching the
Canadian Engineers the art of
earthwork defenses, he decided to
make miniature models of trenches
and he secured quarters on Cham-
plain street and alone started the
work. Being an artist in civil life
he was especially well adapted to
the work of translating blue prints
into miniature comprehensible mod-
els and he succeeded in making
several sectional examples. These
proved of great value in the early
training of officers who have since
been included in overseas drafts
from St. Johns. They brought
home clearly what was impossible
for photographs to show and ampli-
fied the theories of the instruc-
tional staff. After usage here, the
first model was sent to Montreal
and later to Toronto. It measured
six by 12 feet but, as at that period
the lore of making war was con-
tinually undergoing changes, it be-
came out-dated. Lieut. Adney
continued his work, however, being
well posted since he received not
only the official blueprints issued
at Chatham, England, but official
photographs and even captured
valuable documents from the Ger-
man armies. His next model or
rather a series of smaller technical
models of papier-mache were sent
early in 1917 to Ottawa where they
immediately attracted the atten-
tion of Gen. Gwatkin, Chief of
Staff, who, appreciating their

value from an educational point of
view immediately ordered models
for every military district in
Canada. This large order neces-
sitated working on a more elab-
orate scale and the assistance of engi-
neers was necessary. Lieut. Adney
made most of the models person-
ally. He has supplied Montreal,
Toronto, London, Kingston and the
Royal Military College at Kings-
ton with models which have a per-
manent value and which were all
made in St. Johns.

At the present writing two of
the most elaborate models attempt-
ed are in course of construction,
one being virtually complete.

This fascinating model which
can be seen by any soldier on the
strength of the E. T. D. represents
the third line trenches and the
communications to Battalion head-
quarters, which will fit on to the
first model constructed by Lieut.
Adney and now at the Royal Mili-
tary College at Kingston. The
ensemble will measure 300 by 6
feet. The model is built up on the
basis of machine gun defense which
has proved to be the most effective
during the present war. On a
typical piece of sloping ground
strong machine gun positions were
selected and the trenches, contrary
to general conception, have been
built around these strong points
in a manner to make them virtually
impregnable. The guns not only
command approaches to the first
line trenches but also enfilade the
firing trenches of those who hold
the position and the approach down
the communication trenches. Not
only has the tactical scheme been
cleverly worked out, but there is
a wealth of detail which brings
home the important role the engi-
neers have had to play in the war.

The minuteness with which the
trench model has been constructed
is due largely to the plethora of
information received by the artist
by way of official information and
word of mouth brought by re-
turned officers who have been of
great value. There are thousands
of sandbags about the size of a
thimble; there is revetting done in
lacquered wood, corrugated iron,
wooden shoreings, footboards in
the trenches done absolutely to
scale. There are cleverly camou-
flaged machine gun positions, con-
crete topped observation posts
fashioned out of shell craters,
barbed wire both high and low, ob-
structions, flying traverses, trench
mortar emplacements. In the rear
lines where Battalion headquarters
is shown, are every form of dugout
known from the deep concrete
roofed staff rooms to bunk houses
for the men, a telephone exchange

with the wires radiating to the ob-
servation posts to the fore and to
the Brigade headquarters and to
the artillery in the rear. Even
the telegraph posts are fashioned
to scale. Shown also are Red Cross
dressing dugouts and narrow
gauge railways leading to the lines
further back and the arteries of
communication.

The model on view is made of
beaver board, wire, fibre and papier
mache. In order to make it per-
manent, and durable it was built
solidly the papier mache being
coated thinly over the basic mate-
rial and later painted. There are
trees seen and little stumps show
where much of the material for the
trench revetment was secured.

The large model is constructed
in four perfectly fitting sections
which are so strongly made that
they can be packed and shipped
without danger. These are believed
to be the first portable models
made. Some of Lieut. Adney's
models have been exhibited in New
York under the auspices of the
British Recruiting Mission and
they have been highly commended.

During the construction of the
model which is to be seen on Cham-
plain street, Lieut. Adney has been
assisted by the following five Sap-
pers: W. L. Clifford, R. L. Forbes,
W. J. Branton, Pius Comeau and
Al Judson.

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