CHAPTER 14
THE GROUPING AND ZEROING RANGE

INTRODUCTION

1401. **General.** Although grouping and zeroing (G&Z) may be carried out on most ranges, it is often expedient to include a G&Z range as part of a range complex to enable this task to be carried out concurrently with other shooting practices. The recommended distance for G&Z of rifles and the LSW is 100 m.

1402. **Aim.** This chapter describes the construction requirements for G&Z ranges and in particular:

   a. Introduction 1401 - 1402
   b. Range danger areas 1403
   c. Siting 1404 - 1405
   d. Construction 1406 - 1409
   e. Communications 1410
   f. Maintenance 1411

RANGE DANGER AREAS

1403. The RDA requirements for a G&Z range are:

   a. **WDA.** When open ground is used with or without a fall of shot bank (see paragraph 1407), the WDA template shown at Figure 19-2 is applied to each firing point. See Figure 14-1.

   b. **LDA.** If the range is constructed to Gallery criteria using a mantlet and stop butt, the GR RDA may be applied. See Figure 14-2.

SITING

1404. **Requirements.** A reasonably flat, northerly orientated, well drained site, about 120 m long is required. The width of the range depends on the number and width of the firing lanes.

1405. **Lane Width.** The lane width is normally 6 m but this may be reduced to 4 m to reduce ground works and if insufficient land is available.

CONSTRUCTION

1406. **General.** A G&Z range is shown in outline at Figure 14-1. The construction has been specifically designed to provide a cost effective, single task range.

1407. **Fall of Shot Bank.** Typically a 1.5-2.5 m high bank is provided only to indicate fall of shot.

1408. **Targetry.** Zeroing screens or AMS may be used.

1409. **Firing Points.** Firing points are required to allow firing from all postures. They should be raised 450 mm above the range floor with a fall of 1:12 to the rear (see Figure 2-13). Fire trenches may be included to extend the use of the range. Figure 2-13 shows a standard firing point.
COMMUNICATIONS

1410. A means of summoning the emergency services, ideally a land laid telephone, is to be available.

MAINTENANCE

1411. Ranges with a Gallery RDA template must be maintained to the full GR standard (see Chapter 15).
Figure 14-1. Typical G&Z Range
Figure 14-2. G&Z Range using Gallery RDA.