

NE ARNG Regulation 385-1

Safety

Range and Training Facilities



**Headquarters
Nebraska Military Department
Lincoln, Nebraska
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UNCLASSIFIED

Summary of Change

NE ARNG Regulation 385-1
Range and Training Facilities

This revision

- Revision of previous NE Regulation 385-63 to incorporate training area and training devices.

Safety Range and Training Facilities

**By Order of the NGNE
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Summary. This regulation provides Commanders and using units with required force protection guidance when utilizing ranges and Training Facilities on Greenleaf Training Site or Camp Ashland. It provides procedures to protect military and civilian personnel who are utilizing the Nebraska Training Centers.

Applicability. The procedures in this Regulation apply to all military (AC/RC) and civilian agencies utilizing any Training Site in the State of Nebraska.

Impact on Army Manning System. This regulation does not contain any information that affects the Nebraska Army National Guard Full Time Manning System.

Army Management Control Process.

This regulation is subject to the requirements of AR 11-2.

Supplementation. Supplementation of this regulation is prohibited without prior approval from the Facility Site Manager.

Suggested Improvements. Users are encouraged to send comments and suggested improvements on DA 2028 (Recommended Changes to Publications and Blank Forms) directly to Training Site Manager, Greenleaf Training Site.

Distribution. A

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Chapter 1

General

1-1. Purpose

This regulation governs the safe use of training facilities and areas located at Greenleaf Training Site (GTS) and Camp Ashland Training Site (CATS), Nebraska collectively comprising the Nebraska Army National Guard Training Centers. It is intended to supplement current training publications and regulations. The training centers provide 5000 acres of terrain for military training.

1-2. Responsibilities

a. The NEARNG-G3 Training is responsible for all aspects of training at the Nebraska Training Centers. This individual, or an authorized representative, are the only agents who may approve exceptions to policy established by this regulation.

b. Operations and Training Branch: Primarily responsible for scheduling the utilization of training facilities for the installation.

c. Range Control: Responsible for the enforcement of policies and procedures established by this regulation while monitoring training events for safety control measures.

d. Construction Facilities Maintenance Office (CFMO): Responsible for planning, construction and maintenance of all State Training Center Facilities and training areas.

e. Training Center Branch Manager : Responsible for any local adjustments of policy as well as coordinating site usage and compliance with established policies.

f. CFMO Environmental Branch: Responsible for review of all Training Event Record of Environmental Consideration (TEREC) submissions for training events and ensuring compliance with environmental policies.

1-3. Scheduling of training facilities

a. Scheduling of ranges and training areas will be accomplished using the Range Facility Management Support System (RFMSS). The RFMSS program is the primary means for requesting and scheduling resources at Nebraska Training Centers for all using units and organizations. Organizations may request RFMSS passwords from the Operations & Training Section. Passwords will be issued by the RFMSS Functional Administrator (FA).

b. Information concerning the availability of training facilities can be accomplished telephonically; however, training facilities are scheduled and reserved only after a written request has been submitted and received through the unit Chain of Command via RFMSS.

c. RFMSS can be accessed by going to <https://rfmss.belvoir.army.mil/>

d. In order to better serve customers and forecast manning requirements of Training Center staff units must submit the following documents NLT than 2 weeks prior to the scheduled training event:

- (1) Copy of Unit Training Schedule
- (2) Unit Range Order
- (3) Signed Composite Risk Management (CRM) worksheets (Appendix D)
- (4) OIC/RSO certification memorandum signed by Battalion Level Commander (Appendix F)
- (5) TADSS items requested

1-4. In-Brief Procedures

a. Incoming units are required to attend a formal site In-Brief; meeting time will be coordinated by RFMSS Scheduler to best facilitate all units conducting training, intent is to have all unit representatives present at the same briefing. Briefing will typically be conducted 2-3 hours prior to the arrival of main body personnel.

b. The purpose of this briefing is to inform the unit leadership of the requirements and policies governing use of the training centers.

c. At least one of the following individuals, (Unit Commander, 1SG or Ops NCO) must be present, the unit supply sergeant or designated representative as per DA Form 1687 should also be in attendance to hand receipt all facilities and equipment.

d. All required paperwork must be on hand and reviewed during In-brief prior to beginning of training event.

1-5. Daily range coordination meeting

a. A range coordination meeting is conducted daily at 1500, Bldg. 100, GTS, and Bldg 55 at CATS.

b. The purpose of this meeting is to conduct final coordination for facilities that will be utilized on the training site over the next 24-hour period.

c. Units are required to provide a representative (CO/1SG or Operations NCO) to this briefing to accomplish the following:

(1) Add or cancel ranges/facilities.

(2) Coordinate with other units to transfer scheduled facilities or to arrange for joint utilization.

(3) To receive information on installation directed cease-fires, safety precautions or administrative information of interest to all training units.

(4) To turn in daily unit Situation Report (SitRep) IAW Appendix B.

d. Units conducting training who are unable to attend the daily range coordination meeting must coordinate the above requirements prior to this event.

1-6. Additions/cancellations of training facilities

a. Additional training facilities may be acquired in the following manner:

(1) Submit a RFMSS request (NEARNG units) or written request.

(2) Request the facility at the daily range briefing.

(3) Request a facility from another unit currently scheduled for the facility.

(4) Coordinate for joint utilization with another unit. The unit scheduled for the range will be responsible for clearance of the range.

b. Units may cancel facilities prior to 48 hours before the day of training by notifying the Operations and Training Section in writing.

1-7. Control of airspace

a. GTS airspace is controlled at the installation level by activating and deactivating a Small Arms Range Safety Areas (SARSA). SARSA's are not considered Special Use Airspace (SUA) but are similar to Controlled Firing Areas (CFA) in that the Installation Commander is required to take appropriate actions to ensure that airspace above and adjacent to small arms ranges is adequately monitored to preclude endangering aircraft operations. The Chief, Plans and Training Division/Range Control are the only agencies allowed to activate or deactivate the SARSA. The level of restricted airspace that is activated is dependent on the weapons systems being fired on various range facilities within the installation.

b. All scheduled aircraft or aircraft supporting ground elements must coordinate with Range Control (VHF 123.075,TX/123.45RX) prior to entering the restricted area. Minimum information required is:

(1) Aircraft call sign or tail number.

(2) Estimated time of arrival.

(3) Estimated time on station.

(4) Number of personnel on the aircraft.

(5) Type of aircraft.

c. Firing will not be conducted when the ceiling (cloud height) is less than 305 meters (1000') above maximum ordinate of fire. No projectiles shall enter a cloud formation. It is the responsibility of the Range OIC to maintain visibility of the airspace within 5 miles of the range and to order a "cease fire" upon any aircraft entering the SARSA (inclusive of a border extending up to 5 miles from the boundaries of the SDZ with a max ceiling height of 3,152 ft AGL based on 7.62mm M80 ball per table B-1, DA Pam 385-63). The range OIC is responsible for insuring that all firing is ceased prior to an aircraft entering the SARSA.

1-8. Issue of maps

- a. The current Nebraska Training Centers training maps are:
 - 1) GTS – Greenlief Training Site Military Installation Map (MIM), edition 0001, version V875S 1:25000
 - 2) CATS – Camp Ashland MIM, edition 0001, version V875S 1:25000 (Appendix J)
- b. Units may request maps through the Training Center Operations and Training Section.

1-9. Environmental awareness and protection

- a. Environmental considerations and requirements are listed in NE NGR 200-1.
- b. Foxholes, fighting position, etc. may be constructed only in authorized digging areas but will be filled in before the unit clears the training area. Prior to approval of any digging on Nebraska Training Centers, units must submit a Training Environmental Record of Environmental Consideration (TEREC) through CFMO-ENV. Copy of the TERC Form can be obtained from the CFMO-ENV Office.
- c. Hazardous Materials will not be disposed of on any range, training areas or cantonment areas. Contact the agency that issued the materials for disposal instructions. All spills will be reported immediately to Range Control, and all spills regardless of size must also be reported to CFMO-ENV Office Immediately.
- d. Disposal of any “gray” water will be pre-coordinated through Training Center Operations and Training section.

1-10. Alcohol policy

a. Alcoholic beverages are prohibited on all ranges, firing points, training areas and any other training facility at Nebraska Training Centers. It is also illegal to transport alcoholic beverages along any installation roads, trails leading to a training area or facility outside of the cantonment area.

b. MWR requests for alcohol consumption can be requested through Operations and Training Section and must be approved by the Adjutant General. Requests should be submitted at least 10 working days prior to the event and will outline at a minimum the duration and intent of the activity, control measures to control underage consumption, and must terminate at least 8 hours prior to the next scheduled training event.

1-11. Privately owned vehicles (POVs)

- a. POV and POMs are not authorized in any down-range training areas or GOV Tactical parking lots.
- b. Units may request an exception to this policy through Range Control for issue of a range pass, this pass will outline the specific route and areas authorized, and must be displayed on dash of vehicle at all times.

1-12. Fire prevention

a. Commanders will ensure all unit personnel are aware of fire hazards inherent in field training operations, to include the handling and firing of ammunition, fueling operations, open fires, etc. Except as noted below, units are responsible, within their capabilities, for extinguishing fires started either by their personnel or as a result of their unit training activity. Based on current fire hazard categories, unit personnel (Range OIC/ Range Safety Officer) may hand receipt additional fire protection equipment for use on the range/facility.

b. General. Units will notify Range Control as soon as the fire is discovered. The report of the fire must include:

- (1) Nature and size.
- (2) Presence of ammunition or other explosive material, if any.
- (3) Location. If location is in a remote area, location of a ground guide that will meet fire team and guide them to remote location.

c. During Live Fire any fires observed in the Impact Area. Range Control must be immediately notified of the location and extent of the fire. No personnel will move downrange in an attempt to put out the fire until all ranges are in a “Cease Fire” AND without specific authorization from Range Control. Ranges will not resume firing until 100% accountability of all personnel and equipment is accounted for and Range Control has ensured the Impact Area is clear.

d. Fires in areas other than the Impact Area. Range Control must be immediately notified of the location and extent of the fire. Available personnel will attempt to extinguish or contain the fire if possible.

e. Fires Involving Ammunition and Explosives:

(1) Every reasonable attempt will be made to prevent fires from reaching ammunition and explosives storage areas.

(2) If it appears that a fire could extend into an area in where ammunition and explosives are stored, steps must immediately be taken by the senior service member present to evacuate such ammunition and explosives out of the fire area.

(3) If a fire reaches an ammunition and explosive storage area, the senior service member present shall order the evacuation of all personnel to a safe distance from the storage area and post road guards as necessary to preclude entry of civilian and military traffic into the danger area. The senior service member present shall then notify Range Control of the measures taken.

f. Ammunition/Explosives/Pyrotechnic Suspension. When dry weather creates a fire hazard on the installation, Range Control may declare a suspension on the use of certain types of ammunition/explosives/pyrotechnics. Due to varying conditions, some items may be suspended while other types may be approved for use. The Range Officer or his designated representative will do this on a case-by-case basis.

g. Supplementary Information:

(1) Burning of trash is prohibited.

(2) Warming fires used to preclude cold weather injuries are permitted on a case-by-case basis only with prior approval of Range Control. Range Control personnel must be advised of the exact location of each fire. Unit commanders are responsible for safe use of warming fires.

1-13. Range / Training facility clearance procedures

a. Units will be responsible for clearing all facilities they have hand-receipted (drawn).

b. Clearance will be conducted during daylight hours, specific procedures (by Range) are listed in Appendix A and the Range/Facility Packet. Unit will contact Range Control to schedule a time to have all range facilities inspected.

c. Inspectors will inspect facilities only until it becomes obvious that not enough preparation for clearance has taken place. In this case the inspector will brief the OIC of the deficiencies and depart. Areas will be re-inspected once deficiencies have been taken care of by using unit.

d. Clearance of large units (battalion and higher) will be accomplished as follows:

(1) A Unit Clearance Officer (UCO) in the rank of SFC or above will be appointed who will have the Commander's authority.

(2) At least 24 hours prior to clearance, the UCO will contact the Range Operations NCOIC who will provide him a list of all facilities that must be cleared.

(3) On the day of clearance the UCO will report to Range Operations and will assist in the clearance of the training areas/facilities. The UCO should maintain communications in order to coordinate efforts with subordinate elements in the training areas. Once a facility has been cleared by Operations NCOIC the facility will be secured and become off limits to unit personnel.

(4) Range Control personnel will coordinate only with the UCO on clearance problems and priorities of facility inspections.

1-14. Training facility phone numbers

GTS:

Range Control	402-326-3027	Building 100
Operations Desk	402-309-7887	Building 100
Ops &Trng Branch	402-309-7865	Building 100

CATS:

Range Control	402-326-2349	Building 55
Operations Desk(TASO)	402-309-7618	Building 55 (Operational Fri-Sun)
Ops &Trng Branch	402-309-7606	Building 55

For a complete list of facility phone numbers see Appendix K.

Chapter 2 Safety

2-1. General

Safe training is the responsibility of the Unit/Organization Commander. This chapter provides specific safety guidelines for conducting training at Nebraska Training Centers.

2-2. Officer in Charge (OIC)/Range Safety Officer (RSO) requirements

Prior to conducting training on Nebraska Training Centers all command certified OIC/RSOs must; check in at Range Control, receive their required range safety brief and present their certification prior to issue or occupation of the training areas/facilities.

2-3. Certification of OIC/RSO

Certification as an OIC or RSO will be IAW DA PAM 385-63, Para 1-7 and the following;

- a. Successfully complete the NE ARNG installation safety certification training and the written exam. This evaluates the individual's knowledge of DA Pam 385-63, NE ARNG 385-1, and applicable FM/TMs for the subject weapon system to be utilized.
- b. OICs must meet grade requirements and be weapon system **certified** on the type training being conducted. RSOs must meet grade requirements and be weapon system **qualified** on the weapon system for the type of training being conducted (see Appendix G).
- c. Battalion Commanders will provide Range control an appointment memorandum (see Appendix F) and individual training certificates of all personnel who are to perform duties as an OIC or RSO. Range control will then issue the Unit the individual OIC/RSO Certification Cards which are valid for 2 years.

2-4. Decertification of OIC/RSO

- a. OIC/RSOs who violate, or allow for the violation of DA Pam 385-63, applicable FM safety standards or this regulation may be decertified by Range Control.
- b. Upon decertification, training will cease at the training facility until another certified OIC/RSO is appointed.
- c. Examples of safety violations, which may result in immediate decertification, are as follows:
 - (1) OIC/RSO not present on range or not in a position to control training being conducted.
 - (2) No qualified medic or litter-bearing vehicle present on range.
 - (3) Unsafe handling or storage of ammunition or pyrotechnics.
 - (4) Failure to establish and maintain communication with Range Control.
 - (5) Road guards not posted or performing duties as required.
 - (6) Damage, destruction or alteration of a training facility.
 - (7) Failure to follow specified actions as described in the specific Range Facility Packet.
 - (8) Failure to follow prescribed courses of fire for, or firing outside of range fan.

2-5. Communications

a. All units using Nebraska Training Center training facilities are required to maintain two types of communications with Range Control. Types of approved communication in order of preference are: FM (SINCGARS), FM Motorola Range Radios, Land Line Telephone, Military cell-phone, Civilian cell-phone, Land Line wire (TA-312/TA1). Specific requirements are listed in Annex A for each training facility or range.

b. Some ranges contain single radio (FM) capability. Units are still required to provide the second type of communication (FM or cell phone) with range control from internal assets.

c. Motorola radios and PA Systems are provided for command and control of personnel movement on and off the range and to assist in control of the firing line during the course of fire.

2-6. Documents/Equipment required at training facilities

The following documents must be present at all training facilities and must be readily accessible to the OIC:

- a. Range/Facility Packet (issued by Range Control).
- b. Field Manual and/or Technical Manual for the type of training being conducted or weapon being fired.
- c. If a medic is required on site, a strip map that shows the route to the nearest aid station, Nebraska Training Centers Troop Medical Clinic (when operational) and local area hospital (See Appendix H).
- d. A copy of this regulation (NE NGR 385-1).

2-7. Composite Risk Management

- a. Units will prepare a DA Form 7566 Composite Risk Management Worksheet IAW FM 5-19 for all training events. Range control will be provided a copy for review NLT than 2 weeks prior to the Units training activity.
- b. Non-standard range and training activities with “high” or “Extremely High” residual risk ratings must be coordinated with the Range Control OIC to be evaluated with NEARNG higher command prior to execution. High risk residual training events will only be approved by a NE ARNG Brigade Commander. Extremely high residual risk training events will only be approved by the NE ARNG TAG.

2-8. Use of protective headgear, hearing protection, and protective eyewear

- a. Commanders will ensure that all personnel conducting range/training operations utilize protective equipment, when required to minimize potential injuries.
- b. For weapons firing - All shooters on the firing line must wear hearing protection; required firing uniform is to be determined by Unit Commander, based on the CRM analysis, unless qualification/validation standards dictate a specific uniform. Civilian personnel will wear the following at a minimum; hearing and vision protection.
- c. Range Cadre are not required to wear Kevlar and field gear, unless directed by Unit Command, ALL personnel working in the Target Pitts on the KD Range are required to wear Kevlar/Hearing Protection and Eye Protection during live fire.

2-9. Medical requirements

- a. A medical aid man/medic or certified Combat Life Saver (CLS) with the following capabilities and equipment must be present on all ranges and specified facilities during the conduct of live firing/training:
 - (1) The aid man must be MOS qualified. A civilian equivalent emergency medical technician is also authorized. Units may request to use CLS personnel to fulfill this requirement prior to the range going hot. If unit uses civilian EMT or certified CLS personnel a copy of certification or memorandum from Commander must be provided to Range Control.
 - (2) The aid man must have a standard aid bag, litter and FM communications.
 - (3) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.
- b. A litter-bearing vehicle must be on site with a driver **other than the medic** and capable of transporting a litter patient.
- c. The driver must know the quickest route to:
 - (1) The unit's aid station, if any.
 - (2) Local area hospital.

2-10. Medical emergency procedures

a. Requests for medical assistance should be sent by the fastest means possible to Range Control (FM or telephonically) detailing at a minimum the exact location, age, gender, and nature of the injury.

(1) Range Control calls 911

(2) Range Control personnel AND a unit representative (that knows the location of the injury) will meet Emergency Medical Personnel at the main gate.

(3) Range Control will escort EMS to the location of the injury

(4) Unit representative will escort any additional EMS assets (if needed) to the scene of the injury.

(5) Medic or CLS will NOT ride with civilian EMS during transport, but should follow ambulance to local health care facility to provide any personal information on the patient that may be needed.

(6) Unit is responsible for submitting treatment information and Line of Duty (LOD) paperwork.

(7) Unit leadership is responsible for submitting Joint Operations Center (JOC)-Serious Incident Report (SIR) through Chain of Command and providing courtesy copy to Range Control.

(8) After duty hours procedures will be discussed during the unit in-brief.

b. Wet bulb information. Range Control will publish current wet bulb status hourly over the primary FM frequencies when the heat is category two (GREEN) or above. Units within the cantonment area may contact Range Control for this information.

2-11. Issue of A&E

- a. State Ammunition Manager (STaM) will provide Training Center Operations and Training-ASP Manager an approved copy of DA Form 581 and DA Form 1687. These documents will be the only documents used for issue and turn-in of AA&E.
- b. Unit will pre-coordinate a time to issue/receive AA&E from the Greenlief ASP (N1NE) through the Training Center Operations and Training section.
- c. Only approved DODICs listed in Appendix A will be issued to units conducting training on Nebraska Training Centers.

2-12. Handling of ammunition on ranges

a. Ammunition will be transported and handled only under the direct supervision of qualified personnel who meet the training requirements outlined in AR 385-63, DA Pam 385-63, DA Pam 385-64, TM 9-1300-206, FM 5-250 and the applicable field manuals or technical manuals for the weapon system or ammunition utilized.

b. No smoking is allowed within 50 feet of ammunition that is stored, being handled, or on the firing line.

c. OICs will ensure that NO ammunition, explosives, or components thereof, remain in the possession of any individual upon leaving the range.

d. Units will only issue ammunition from the provided ammo issue facility (ammo shed/base of tower) on each range. If the range being used does not have a designated issue facility units will issue from the back of their ammo transport vehicle parked in the designated area for the range.

e. Units will provide a listing of authorized ammo handlers, who will be responsible for the issue and accountability of all ammo on the range. The unit Commander must authenticate the authorization memorandum.

f. The OIC of any training exercise involving the use of blank ammunition will conduct a safety briefing for all personnel prior to issue of ammunition.

g. Blank ammunition will only be issued to personnel with blank adapters mounted on their weapons.

h. Blank ammunition and ball ammunition will never be transported or stored in the same location at any time.

i. Ammunition will not be stored in the cantonment area.

j. Per AIN 003-10, dated 05 Oct 09, de-linking/linking of any ammunition is prohibited.

2-13. Field storage of ammunition

- a. Permission for overnight/field storage of ammunition, explosives, or components thereof, on ranges must be obtained from the Range Officer/NCOIC.
- b. Guards must be posted at temporary field ammunition storage sites at all times. They must maintain primary (FM) and secondary communication with Range Operations.
- c. Ammunition and sensitive equipment will be guarded IAW AR 190-11 and AR 190-14.
- d. All field storage of ammunition will be performed in accordance with DA Pam 385-64 and TM 9-1300-206.

2-14. Ammunition and explosive holding area (A&E HA) procedures

- a. The A&E HA is for temporary storage of ammunition, explosives and pyrotechnics for units utilizing the ranges and training areas of Nebraska Training Centers. GTS building 720 provides four unit storage cages within the ASP perimeter fence. Range Control is the coordinating agency for use of this facility.
- b. Storage:
 - (1) Units will assume responsibility for securing assigned cage (IAW AR 190-11) when utilizing the A&E HA.
 - (2) Only vehicles approved for transporting ammo/explosives will enter the ASP.
 - (3) Units are responsible for all accountability requirements (IAW DA Pam 710-2) while storing ammo/explosives in the A&E HA.
 - (4) Blank Ammunition will not be stored in the same container with ball ammunition.
 - (5) Unit personnel (authorized access) will remain on post while ammunition is being stored in the A&E HA. They are responsible for informing Range Control of their location (for emergency contact) while on the installation.
- c. Units using ammunition that is above the 1.4 hazard classification must coordinate for specific 'approved' magazine before using the site

2-15. Misfire and malfunction procedures

- a. A misfire is a complete failure to fire. It is caused by a faulty firing mechanism or element in the propelling charge. AR 385-63 and appropriate FMs and TMs for the weapon(s) concerned give specific information on the proper method of handling misfires. Their guidance will be followed explicitly on all ranges and firing points.
- b. In the event of a misfire that presents an immediate hazard to personnel or a cease-fire is necessary, the OIC is responsible to ensure:
 - (1) All personnel are relocated to a safe distance from the incident.
 - (2) Proper procedures are followed.
 - (3) Range Control is notified to begin a malfunction investigation.
 - (4) Technical assistance, if needed, may be requested from Range Control.
- c. Malfunctions:
 - (1) Material involved in malfunctions or accidents and any evidence (components, weapon/ammunition fragments) will be carefully preserved in the position and at the location it occupied at the time of the incident.
 - (2) Material involved in a class A or B accident (IAW AR 385-40) must remain on site until cleared by the investigating authority unless an immediate hazard to life or property is present.
 - (3) Notify Range Control to initiate the malfunction investigation. Notification will include the following:
 - (a) Weapon system/ammunition involved.
 - (b) Lot/Serial number of the ammunition/weapon involved.

2-16. Unexploded Ordnance (UXO)

- a. GTS Impact Area is approved only for non dud producing ammunition. No fused projectile or dud producing munitions are authorized to be fired.
- b. Due to the use history of Nebraska Training Centers it is possible that UXO may be discovered.

c. AR 385-10 Safety, describes a UXO as ammunition and explosives that have been primed, fused, armed, or otherwise prepared for action and that have been fired, dropped, launched, projected, or placed in such a manner as to constitute a hazard to operations, installations, personnel, or materiel, and remain unexploded by malfunction, by design, or for any other cause. Unexploded ordnance is synonymous for the dud.

d. UXO will not be disturbed under any circumstances. UXO will be clearly marked, no closer than ten (10) feet, and a guard will be posted until relieved by Range Control/EOD personnel. When personnel locate UXO the Range OIC must submit the following information to Range Control:

- (1) Detailed location of/or Coordinates of UXO.
- (2) Number of items (rounds).
- (3) Type of UXO (if known - artillery shell, grenade) and a description.
- (4) How marked (by the unit/personnel discovering the item).
- (5) Name/rank/unit of individual reporting the UXO.

e. In the case of grenades or other munitions that may be immediately hazardous to personnel, firing/training will be halted until qualified EOD personnel clear the dud.

f. Commanders and Range OICs must brief their personnel of the danger that UXO presents, the requirement to mark the location of UXO, and to report the marked location to the commander or OIC as soon as possible.

2-17. Clearing of weapons

Upon completion of firing when changing firing orders/crews and prior to any weapons leaving the range, the RSO will ensure that each weapon is cleared. IAW applicable FM/TM.

2-18. Erratic firing

a. Any projectile that impacts outside of range safety limits as prescribed by this regulation or as depicted on the Range Surface Danger Zone (SDZ) map will require immediate investigation and corrective action.

b. Any individual detecting rounds landing outside of their authorized limits or the established impact area will immediately initiate a "CEASE-FIRE-FREEZE" and contact Range Control and report the following:

- (1) Range ID
- (2) Name of who observed
- (3) Date and time round observed.
- (4) Location of observed round.

c. Range Control will notify the Nebraska Army National Guard Safety Office.

2-19. Cease-fire procedures

a. Any individual, military or civilian, who observes an unsafe act may stop firing by commanding a "CEASE-FIRE".

b. All personnel must remain alert and watchful for unauthorized personnel, vehicles, aircraft or wildlife in impact areas. If this occurs, cease firing and notify Range Control immediately.

c. A "CEASE-FIRE" command applies to all personnel.

d. The OIC or RSO will report to Range Control immediately the reason for cease-fire over the quickest means possible.

2-20. Maneuver Area Training

a. The Nebraska Training Centers Special map (1:50,000) depicts the Training Areas available for use by units for each training center.

b. OIC/RSO responsibility. Units will contact Range Control prior to occupying a Training Area and provide Range Control with the OIC (SSG or above). The OIC/RSO will be identified on a certification memorandum (ref. paragraph 2-3). The OIC will report to Range Control for the following actions:

- (1) Receive range (training area) safety brief.
- (2) Complete the opening form for the affected Training Areas (note: unlike the Range opening/closing procedure sheet, only 1 form is required for training areas regardless of the number of days spent in the TAs).
- (3) Provide initial six digit coordinates or physical location of the headquarters where the OIC can be contacted.
- (4) Headquarters elements may assume these OIC requirements for subordinate units.
- (5) Turn in a certification memorandum identifying the OIC/RSO for the unit.

c. Communication.

(1) All units occupying the Training Areas are required to initiate and maintain communications with Range Control (FM). Communications checks are required upon occupation, clearing, and every hour when operating in the training area. Headquarters elements may assume these communications requirements for subordinate units providing they have communication with them.

(2) All units occupying training areas will continuously monitor Range Control Net, Channel 1 (range control) and make required communications checks every 2 hours on even numbered hours (i.e. 0400, 0600, 0800).

2-21. Restricted and Off -limits areas

- a. DO NOT enter onto ranges and other training areas unless approved by Range Control.
- b. DO NOT use firing ranges for tactical training or non-firing exercises without written approval from Range Control.
- c. DO NOT circumvent road guards or road barriers unless approved by Range Control.
- d. DO NOT conduct tactical training or fire any ammunition or pyrotechnics in the cantonment area.
- e. DO NOT enter or dismantle manmade objects/temporary barriers, or fenced areas unless approved by Range Control.
- f. Any dismounted/maneuver training and/or blank live fire training within 200m of established cantonment/admin areas must be pre-approved by Range Operations.

2-22. Wildlife Management

a. By agreement with the Nebraska Game and Parks Commission, portions of CATS have been designated for public wildlife activities during specific time periods and when not utilized for military operations. Training Areas available for military operations are reduced during these activities. For specific dates and areas, contact the Training Center Operations and Training Branch.

2-23. Motor Vehicle operations and movement

- a. The speed limits posted in this regulation apply to all personnel (military and civilian) operating on Nebraska Training Centers. Utilize safe driving practices at all times, operating a vehicle while using cell phones/walkmans/iPods/mp3 or texting is not authorized.
- b. DO NOT operate POVs beyond the cantonment area without a Range Control vehicle pass.
- c. DO NOT exceed posted speed limits. All other maximum speed limits are listed in the below table:

Table 2-1 Vehicle Speed Limits *

<u>Wheeled Vehicles</u>	<u>Maximum Speed</u>	<u>Normal Conditions</u>
-------------------------	----------------------	--------------------------

Established Roads (paved/non-paved, not posted)	35 MPH
Cross Country/Off Road	25 MPH

<u>Limited Visibility</u> (Night Vision Goggles - NVGs)	<u>Limited Visibility</u> (Night Vision Goggles - NVGs)
---	---

Vehicle operations with Night Vision Goggles or during limited visibility conditions are to be conducted 5-10 mph under the posted speed limits and addressed in the units Composite Risk Management (CRM) planning.

** Commander, Nebraska Training Centers Training Center, may change existing speed limits due to weather condition and visibility. Changes will be coordinated with using units by Range Control/TASSO.*

Table 2-1

- d. Tie down antennas when moving within the cantonment area. Cover antenna tips with a protective ball to prevent injury to personnel.
- e. Utilize seat belts and safety restraints for all motor vehicles.
- f. Utilize protective headgear for both civilian (POM) and military motorcycles, all operators of POMs must show copy of DID MC Safety Card and wear required PP&E while driving on post.
- g. Highway warning devices will be used when vehicles are stopped or disabled on public highways/roads surrounding Nebraska Training Centers, cantonment roads and range roads. In no instance will personnel attempt to repair a downed vehicle (located in a road/trail) without a marking device to warn oncoming vehicles (i.e. soldier w/flashlight or signaling device).
- h. No vehicle movement within bivouac sites. Units must apply risk management procedures to control vehicular movement within their field sites. Control measures will be established based on the tactical mission requirements and the unit commander's risk assessment.
- i. Motor marches (convoys) will be coordinated with Range Control NLT 24 hours in advance. Units are responsible to turn in a strip map (convoy route) and timeline for motor movement. Additional risk assessments worksheets may be required (as determined by the Range Control NCOIC) prior to conducting the motor movement.
 - (1) Vehicles involved in a motor march must maintain a minimum safe distances.
 - (2) The front and rear vehicles of a motor march should have communications capability with each other.
- j. Limited visibility (blackout) marches.
 - (1) Units are required to coordinate night convoys with Range Control 24 hours in advance. Units must turn in a route map and completed risk assessment prior to executing any night (blackout/NVG) marches.
 - (2) Unit Commanders must ensure that appropriate intersections are manned by road guards equipped with flashlight or recognition devices enabling them to halt and warn other vehicles approaching the line of march.
 - (3) Travel on or across hard surface roads (cantonment area or public highways) will be with service drive only.
 - (4) The Cantonment area is NOT an authorized 'blackout drive' area. Vehicles will use service drive within this area.
 - (5) Only command-certified personnel will operate vehicles with night vision goggles/devices.
- k. Sleeping on, in, or under any vehicle is prohibited.
- l. Tracked vehicles.
 - (1) All armored/fighting tracked vehicles must travel with a minimum of two personnel, i.e. driver and vehicle commander. Personnel are required to have communications between driver and track commander. Radio is required between the lead and trail vehicles of each movement element.
 - (2) Dismount guides must be employed when moving in close quarters, crossing hard surfaced roads and in bivouac areas at all times. Dismounted guides at night or during limited visibility will have a safety light (i.e. Chem-light/flashlight).

m. Units that wish to move vehicles that are uploaded with ammunition (to and from ranges) must inspect the weapon system (main gun, coaxial machine gun, and small arms) to ensure all live ammunition has been removed and is safe for transport.

n. Convoy Movements. Refer to DA Pam 55-1.

(1) All convoy movements will be coordinated with Range Control NLT 24 hours prior to move.

(2) Units will submit a convoy movement table and map overlay for approval by Range Control for any convoy movement within the training center boundaries.

2-24. Ranges available at Nebraska Training Centers

- a. Combat Pistol Qualification Course. GTS
- b. Basic 10/25-Meter Ranges (Zero) - 1 range facilities. GTS
- c. Modified Record Fire (MRF) Ranges - 1 range facilities. GTS
- d. Machine Gun Transition and 10-Meter Range. – 1 each GTS
- e. Grenade Launcher Range (Practice Round)-2 range facility GTS / CATS-M
- f. LAW/AT-4 Range (sub caliber)-1 range facility GTS
- g. Counter IED Defeat Lane-1 facility GTS
- h. Hand Grenade Qualification Course-1 facility GTS
- i. MK 19 (40mm) Machine Gun Range (practice round only).-1 range facility GTS
- j. AN-PSS-14 Mine Detection Lane-1 facility CATS-M
- k. Sniper Field Fire Range.- 1 range facility GTS
- o. Known Distance Range -1 range facility GTS
- p. Urban Assault Course-1 facility GTS
- r. MOUT Facility (CIC)-2 facilities GTS / CAT-M
- s. Shotgun qualification range-2 facilities GTS / CATS-M (when completed)
- t. Drop Zones-3 facilities 2 - GTS / 1- CATS
- u. Land Navigation Course-4 facilities 1 – GTS / 2 – CATS / 1 – CATS-M
- v. Dismounted IED Visual Indicator Lane (DIVIL)-1 facility GTS

2-25. Range safety requirements

- a. OIC and RSO Grade requirements
 - 1) For ALL Live Fire Training grade requirements are: Officer in Charge (OIC) E7 or above and Range Safety Officer (RSO) E6 or above.
 - 2) For non-live fire training OIC/RSO requirements are listed in Appendix G (using DA Pam 385-63 guidelines).
- b. Communication requirements.
 - 1) When firing, units must maintain two means of communication with Range Control. The primary means of communication is by FM radio. Telephone may be the secondary means of communication.
 - 2) Each range must have a qualified aid man (or combat lifesaver) with aid bag, litter, litter-bearing vehicle, and driver (other than aid man).

2-26. Range operations

- a. A red range flag and flashing beacon must be flown (from the range location and the while the range is occupied. During periods of limited visibility, beacon lights will be used vice the red range flag. Additional range-specific guidance is also provided in Appendix A and the specific Range Packet.
- b. Hearing protection must be worn at all times by personnel on the Range.
- c. Only authorized firing points will be used for live firing.

2-27. Ammunition and pyrotechnics

- a. Ammunition will be stored on the range IAW AR 385-63, DA Pam 385-63, DA Pam 385-64, and TM 9-1300-206.
- b. Vehicle storage will be IAW published FM, TM, and DA Safety Message guidance.
- c. A DA Form 2203R must accompany all DA Form 581s that include explosives/demolitions. No units will be authorized to fire demolitions unless a completed copy of the DA 581 'issue' and DA 2203-R are on file at the Range Control.
- d. Pyrotechnics will be used for their original intended purpose (effect) and will not be modified.

2-28. Explosive/Blasting operations

Currently there are no Explosive/Blasting operations authorized at the Nebraska Training Centers

2-29. Collective Live Fire Ranges

Currently there are no Collective Live Fire Ranges at the Nebraska Training Centers

2-30. Aviation/Airborne operations

- a. There are several Drop Zones (DZs), listed in the Assault Zone Availability Report (AZAR) – Headquarters - Air Mobility Command, that are approved for various airborne operations. Using units will check with Range Control to determine availability and restrictions.
- b. All users will comply with the restrictions and instructions contained in the NOTAM, SARSA or Drop Zone Survey.

2-31. Smoke operations

- a. Units desiring to conduct smoke operations must provide an overlay to Range Control showing the area that will be affected. The unit will cease operations if climatic conditions result in smoke spreading beyond the overlay limits.
- b. Smoke operations are prohibited in the cantonment area, enclosed spaces (i.e. tunnels/basements), and surrounding civilian highways/roads and railroad tracks.
- c. Units will contact Range Control when smoke operations begin and cease.
- d. Units will wear protective masks when using HC smoke.
- e. HC smoke is prohibited from use in confined areas.
- f. Units will immediately cease smoke operations if smoke reaches the boundaries of the installation, this information must be passed to Range Control or Range Operations and OIC must note the time, density and wind direction at time of the incident.

2-32. Urban Operation (UO) facilities

- a. The Urban Assault Course (UAC) and the Collective Training Facility require additional safety requirements that are included in the range packets.
- b. A separate safety briefing is required prior to issue of these facilities.
- c. Range OIC, Safety Officer, communications, and medical support requirements are listed in Appendix A and the specific Range Packets.

- d. Since both facilities require intensive clearing procedures, using units are advised to coordinate turn in requirements with Range Control when they are issued the facilities.
- e. Requirements to operate Rappel Tower or Rappel points are outlined in the Appendix A.

2-33. Air Assault Obstacle Course

There is currently no air assault obstacle course at the Nebraska Training Centers.

2-34. NBC Chamber

There is currently no NBC Chamber at the Nebraska Training Centers.

2-35. Use of CS and riot control agents (RCAs)

- a. CS/RCAs are only authorized for use when approved by Range Operations.
- b. *CS/RCAs are prohibited from use within 200 meters of the cantonment area and the installation boundaries.*
- c. Units desiring to use CS/RCAs will coordinate with Range Operations. If these agents are being used in conjunction with maneuver training, the unit will also provide an overlay detailing the scheme of maneuver and intent of CS/RCA employment.
- d. CS/RCA grenades (oxygen depleting) will not be deployed in confined spaces.

2-36. Land navigation courses (4 facilities available)

- a. Specific safety precautions are published in the Range Packet.
- b. A safety briefing is required prior to issuance of this facility.
- c. FM communication and a medic with letter bearing vehicle are required for use of this facility (Appendix A).

2-37. Formations and Roadway Movements

- a. Formations and roadway movement within requested training areas do not require any additional coordination.
- b. A Formation and roadway movements within the cantonment area require prior coordination with Range Control 24 hours prior to the event.

Chapter 3 TADSS

3-1. General

Nebraska Training Centers have a variety of training aids, devices, simulators, simulations (TADSS) items and other training equipment available for loan or use on site. Other TADSS as needed and not currently in Nebraska Training Center inventory may be acquired locally, through the Fort Riley Training Support Centers (TSC), or developed with assistance of Nebraska Training Centers. A brief description of TADSS available is shown at Appendix A, for more specific details and procedures for requesting and hand receipting TADSS devices contact the Training Center Operations and Training section-TADSS or NEARNG G3T office.

3-2. Requesting Use of TADSS

All TADSS items listed in Appendix A with the exception of EST, HEAT, and VCOT may be checked out as available using DA Form 2062 (Hand Receipt) on a first come, first served basis. Units requesting TADSS equipment should include request when making initial Training Center Request using RFMSS. TADSS requests must be received NLT 90 days out in order to assure equipment is serviceable and ready for issue.

3-3. TADSS Operator Certification/training

Several TADSS require a certified operator, refer to Appendix A for specifics. Requests for operator training or certification can be arranged by contacting Training Center Operations and Training section-TADSS or NEARNG G3T office.

APPENDIX A

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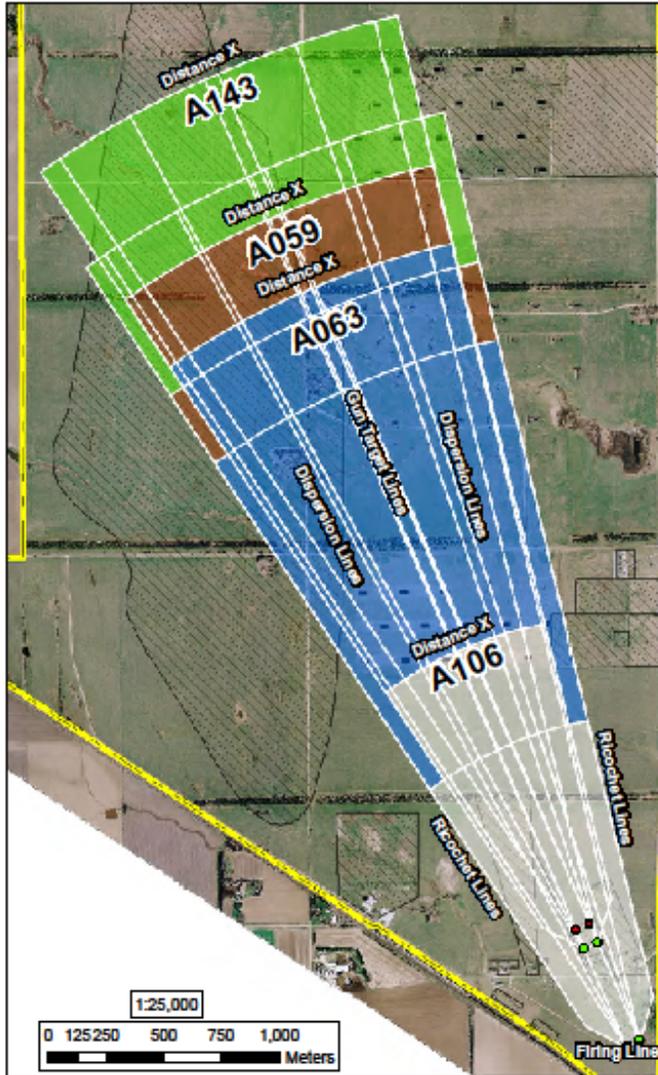
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LIVE FIRE RANGES

Greenleaf Training Site (NE)

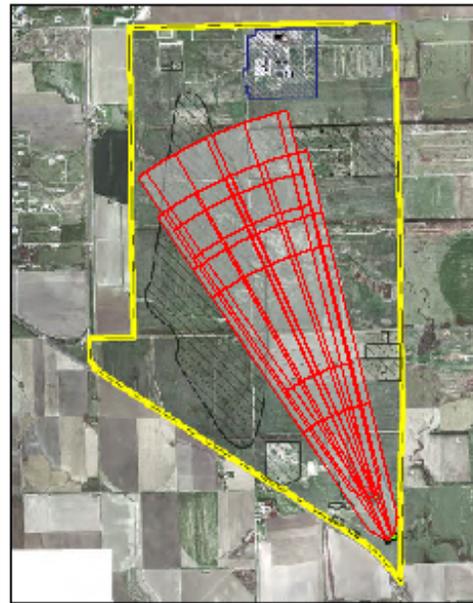
Surface Danger Zone - Known Distance Qualification Range (KD) - H1A

SDZ Layout

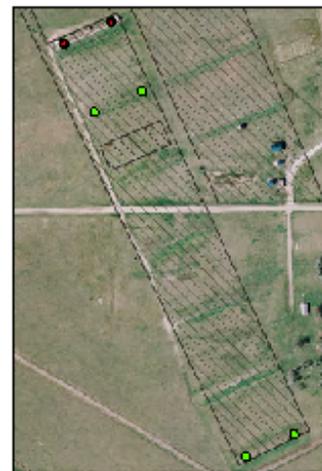


The Surface Danger Zone (SDZ) was prepared using the SDZ Generator, a tool included with the Range Manager's Toolkit (RMTK) extension for ArcView 9.3.1. The specifications are as follows:

- Calibre - .22, 5.56 mm, 7.62 mm
- Ammunition - M855 CLPD, TR M856 SNGL RD, LR Ball, Ball M80 LNKD
- DODIC - A059, A063, A106, A143
- Lanee - 25
- Target Media - All (Worst Case Scenario)
- Target Type - Ground, Stationary.
- SDZ Type - Cone



Firing and Target Limits



- | | | | |
|---|-------------------|---|---------------|
|  | Installation Area |  | Buildings |
|  | Cantonment Area |  | Target Limits |
|  | Range Footprints |  | Firing Limits |



Projection: UTM Zone 14N
 Datum: NAD 83
 Prepared By: CFMO-PPB
 100625_GTS_H1_KD.mxd

LIVE FIRE RANGES

H-1. Known Distance Range (600yd) / H1A Known Distance (1000yd)

FIRING POINTS: 24 / 4

AUTHORIZED WEAPONS / DODICs

TOTAL TARGETS: 24

Per Lane: 1

M9/M1911/Pistol

All Pistol DODICs

M4/M16A2-A4

All 5.56mm DODICs

M24/.308

M80 Ball ONLY No Match Grade

Target Ranges:

Personnel: 100 200 300 400 500 600 lanes 1-24 and 1000yds for H1A 1-4

a. References:

(1) FM 3-22.10.

(2) AR 385-63.

(3) DA Pam 385-63.

b. Location: NK 6231186206.

c. Description and Capacity: A live-fire range used to train and test soldiers on the skills necessary to detect, identify, engage and defeat stationary and moving infantry targets from a known distance. Weapons/ammunition authorized for use Small Arms up to A164 7.62mm Ball –M24/7.62mm (M80 Ball ONLY). Due to the versatility of this range required Targetry must be coordinated with Range Control (for placement and operation) prior to drawing the range. Typical targetry ranges from 6'x6' frames, metal plates, cardboard silhouettes and iron maiden targets.

d. Communications: Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is not available on this range, secondary communication can be established by contacting GTS Range Control via cell phone at (402) 326-3027. Firing will not be initiated or will immediately cease when communications with Range Control is not operational.

e. Safety Precautions:

(1) GTS Safety Briefing and Range Book provided.

(2) Only Range Control personnel qualified to maintain target mechanisms are authorized to proceed down range to repair targetry.

(3) Range flags (day-occupied) and red beacon lights (HOT/firing and at night/limited visibility) will be flown from the Known Distance Range flagpole located east of the 200yd firing line, north of the range road. windage flags may be flown from the flag poles on the east and west side of the target berm, but do not replace the Range Flag requirement.

(4) A medical aid man/medic must be present on the range during the conduct of live firing. Additional medical requirements are:

(a) The aid man must be MOS qualified or certified Combat Lifesaver equivalent.

(b) The aid man must have a current up-dated standard aid bag and litter on-site.

(c) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.

(d) A dedicated ambulatory vehicle capable of litter-bearing must be on site with a driver other than the medic.

(5) OIC must be a minimum of E7 or above. Range Safety Officer must be minimum of E6 or above with valid OIC/RSO Certification card, and must be on BN CMD designated memo on file with GTS-RC.

f. Special Instructions:

(1) Range Officer and Range Safety Officer will report to Range Control for a range safety briefing and turn in a risk assessment worksheet (IAW FM 5-19) prior to issue of the range.

(2) This range requires assigning an E-6 or above Range Safety Certified individual to serve as the KD Pitt NCO. Pitt NCO will be responsible for “sealing” and “opening” the Target Pitts, Pitt personnel will not enter or exit the Pitts without first coordinating with the OIC/RSO. RSO and Pitt NCO will announce that the Pitts are “SEALED” prior to beginning any live fire. Pitt NCO will verify with RSO that all weapons systems have been

cleared and that the firing line is “SAFE” prior to announcing that the Pitts are “OPEN”. When the Target Pitts are “OPEN” RSO will ensure that no personnel are handling weapons.

(3) All personnel on the firing line must wear hearing protection, required firing uniform is to be determined by Unit Commander, based on the CRM analysis, unless qualification/validation standards dictate a prescribed uniform.

(4) Range Cadre are not required to wear Kevlar and field gear, unless directed by Unit Command, ALL personnel working in the Target Pitts are required to wear Kevlar/Hearing Protection and Eye Protection during live fire.

g. **Road Guard/Barrier Gate Requirements:** When using unit plans to fire at distances greater than 200yds (firing berms south of South Range Road) OIC is responsible for ensuring that the barricades located east and west of the range on South Range Road are closed. OIC will contact Range Control confirming that barricades have been closed, PRIOR to receiving permission to resume firing.

h. **Impact Area closed during firing:** See Range Surface Danger Zone.

i. **Range/s closed during firing:**

Ranges (Firing Line): Field Fire, 10m MG Zero

Targetry Repair: AT-4/LAW, Field Fire Range, 10m MG Zero, MG Transition Range

j. **Barriers:**

(1) All GTS SDZ Barrier gates must be closed and locked. GTS Range Control must complete a 100% visual inspection and sweep of the Impact Area.

k. **Transportation of Ammunition:** For transportation of ammunition from the ASP to the range, unit must have inventoried and signed DA Form 581 and transport ammunition IAW established requirements. Ammunition and weapons will not be transported in the same vehicle.

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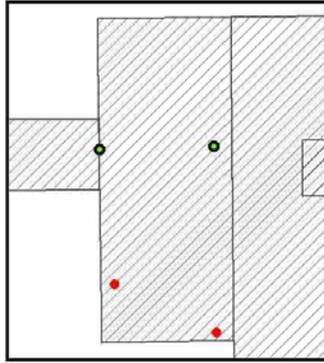
Greenlief Training Site (NE) Surface Danger Zone Grenade Launcher (M203) - H2

The Surface Danger Zone (SDZ) was prepared using the SDZ Generator, a tool included with the Range Manager's Toolkit (RMTK) extension for Arc View 9.3.1. The specifications are as follows:

- Calibre - 40 mm Grenade (M203)
- Ammunition - 40 MM TP M781 SINGL RD
- DODIC - B519
- Lanes -
- Target Media - All (Worst Case Scenario)
- Target Type - Ground, Stationary.
- SDZ Type - Cone



Firing and Target Limits

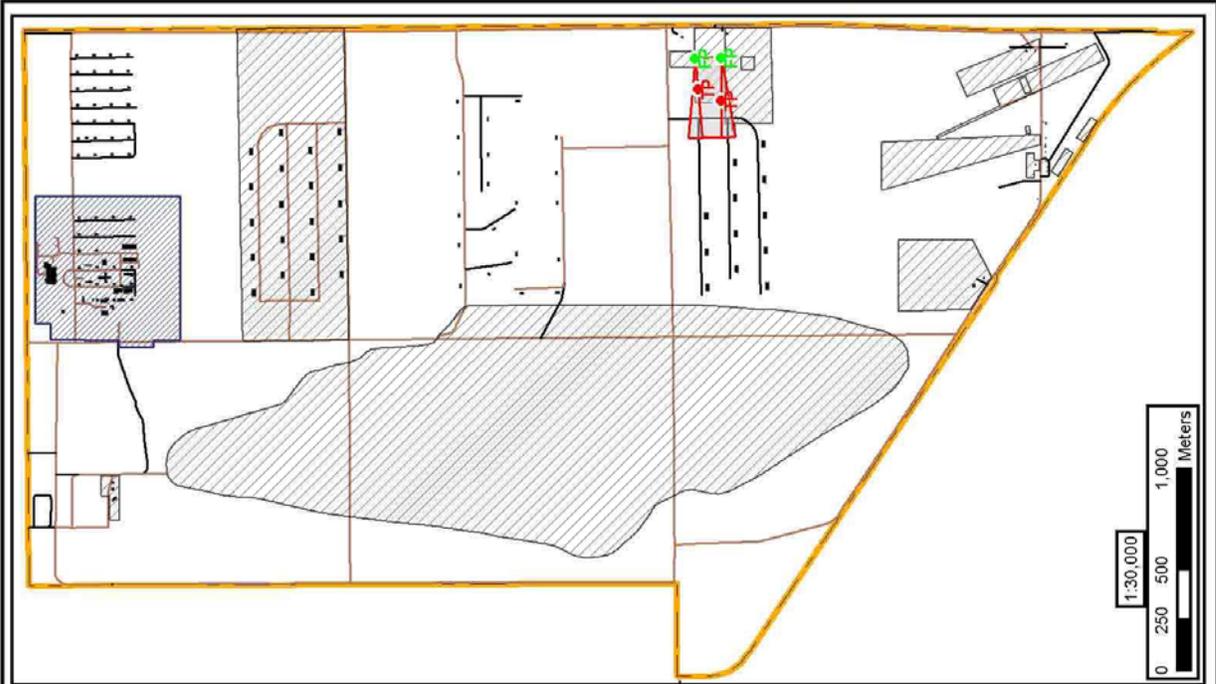
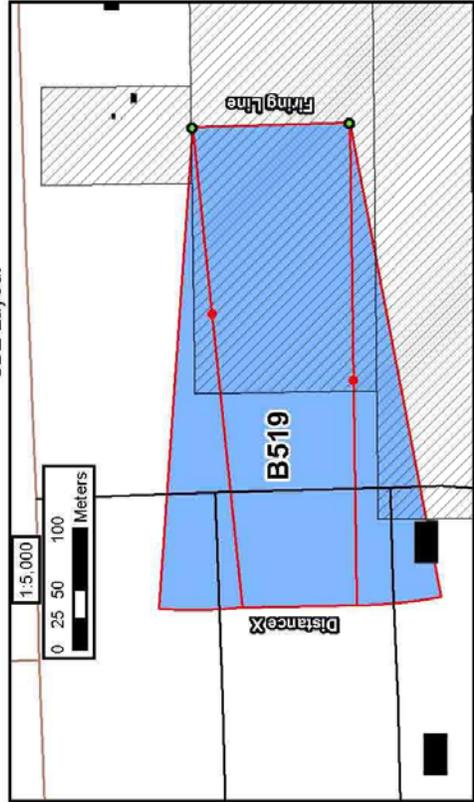


	Firing Limits
	Target Limits
	Buildings
	Cantonment Area
	Range Footprints
	Installation Area



Projection: UTM Zone 14N
Datum: NAD 83
Prepared By: CFMO-PPB
110202_GTS_H2_GrenLaunch.mxd

SDZ Layout



H-2. M-203/320 40mm Grenade Launcher Range

FIRING POINTS: 4

AUTHORIZED WEAPONS / DODICs

M-203/320 Grenade Launcher B519 (M781 TP)

TOTAL TARGETS: 14

Per Lane: Each lane is 30m wide and 400m long.

a. References:

(1) FM 3-23.31

(2) AR 385-63.

(3) DA Pam 385-63.

GTS Range Control Channel: 1

Range Admin Channel: None

b. Location: NK6252887631.

c. Description and Capacity: This range is used to train and test individual soldiers on the skills necessary to engage and defeat stationary target emplacements with the M79/203/320 40mm Grenade Launcher. Range consists of 4 firing points. This range features 2 “zero” targets, both are marked with a white “Z” and located 200 meters from the firing line. This range is restricted to training practice ammunition (TP) only. Weapons/ammunition authorized for use on this range is 40mm TP only.

d. **Communications:** Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is not available on this range, secondary communication can be established by contacting GTS Range Control via cell phone at (402) 326-3027. Firing will not be initiated or will immediately cease when communications with Range Control is not operational. Range Cadre must sign for remote PA speakers from GTS-HQ for control of personnel movement and issuing range commands.

e. Safety Precautions:

(1) GTS Safety Briefing and Range Book provided.

(2) Soldiers will not fire at any target within 100 meters.

(3) HIGH EXPLOSIVE AMMUNITION IS RESTRICTED FROM USE ON THIS RANGE. ONLY

TRAINING PRACTICE (TP) AMMUNITION WILL BE UTILIZED. DUD Ammunition and rounds that have failed to operate correctly will be left in place per mis-fire procedures outlined in FM 3-23.31.

(a) Announce a misfire and keep the weapon pointed at the target.

(b) Wait 30 seconds and clear the area before trying to unload the weapon.

(c) Use extreme caution during unloading.

(d) Determine whether the primer is dented (round is at fault) or not (firing mechanism is at fault).

(e) Remove round from firing line and place under sand bag until un-expended ammunition and dunnage is returned to ASP.

(4) All movement on the range will be directed by the OIC. RSO will verify all weapons are SAFE and the firing line is clear prior to allowing shooters to move to the firing line or depart the range. Empty chamber indicators are available for issue from GTS-HQ.

(5) Range flags (day-occupied) and red beacon lights (HOT/firing and at night/limited visibility) will be flown from the M203/320 range flagpole located east of the range tower.

(6) A medical aid man/medic must be present on the range during the conduct of live firing. Additional medical requirements are:

(a) The aid man must be MOS qualified or certified Combat Lifesaver equivalent.

(b) The aid man must have a current up-dated standard aid bag and litter on-site.

(c) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.

(d) A dedicated ambulatory vehicle capable of litter-bearing must be on site with a driver other than the medic.

(7) OIC must be a minimum of E7 or above. Range Safety Officer must be minimum of E6 or above with valid OIC/RSO Certification card, and must be on BN CMD designated memo on file with GTS-RC.

f. Special Instructions:

(1) All personnel on the firing line, 5 meters to each side, and within 5 meters to the rear of the firing line will wear helmets and approved single hearing protection.

(2) OIC/RSO will ensure only low-velocity training practice (TP) grenade cartridges are fired from M203 and M320 grenade launchers.

g. **Road Guard Requirements:** None.

h. **Impact Area closed during firing:** See Range Surface Danger Zone.

i. **Ranges closed during firing:** None.

j. **Barriers:**

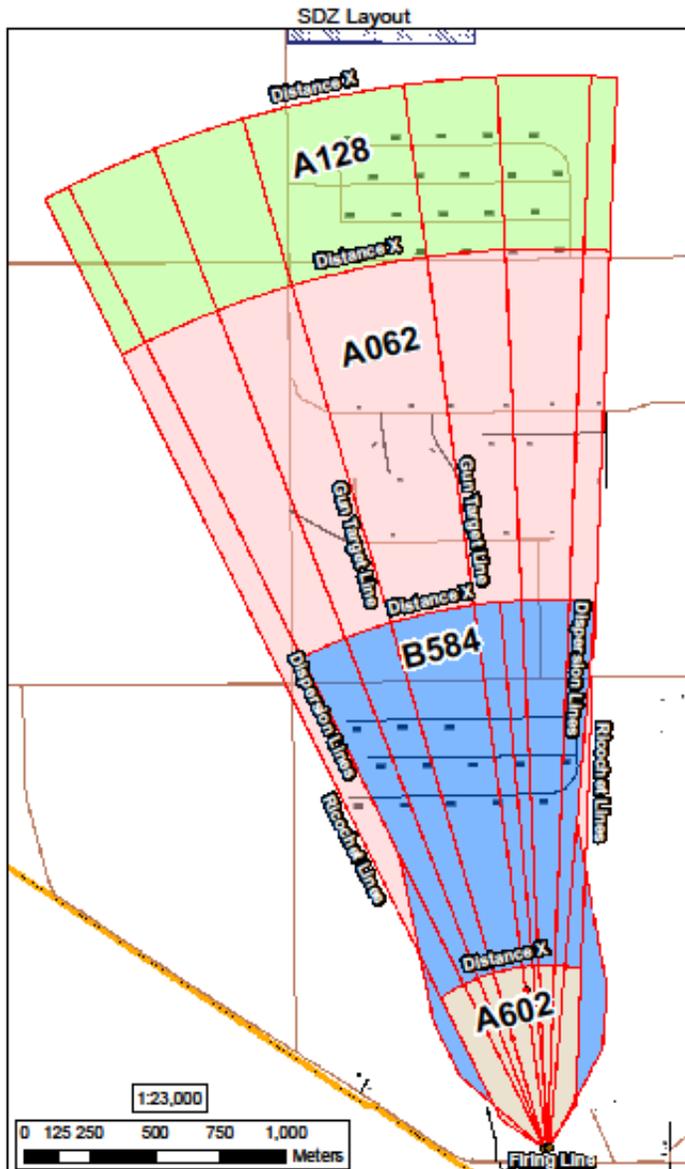
(1) All GTS SDZ Barrier gates must be closed and locked. GTS Range Control must complete a 100% visual inspection and sweep of the Impact Area.

k. **Transportation of Ammunition:** For transportation of ammunition from the ASP to the range, unit must have inventoried and signed DA Form 581 and transport ammunition IAW established requirements. Ammunition and weapons will not be transported in the same vehicle. Dud ammunition must be kept separate from live ammunition during transport.

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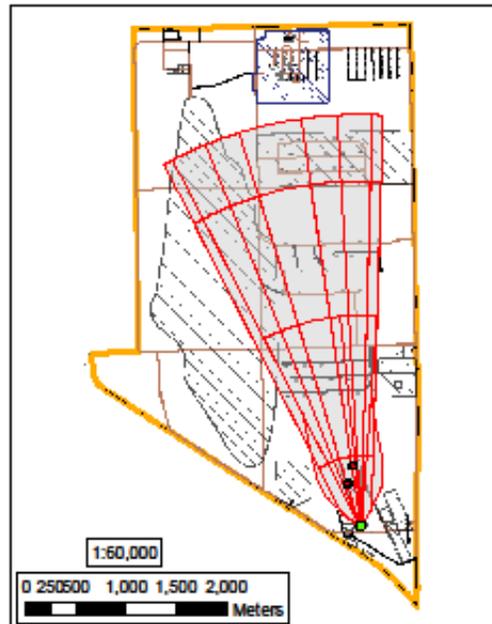
Greenlief Training Site (NE)

Surface Danger Zone - Machine Gun Transition - H6

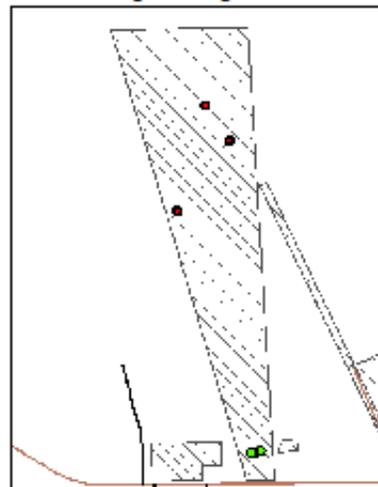


The Surface Danger Zone (SDZ) was prepared using the SDZ Generator, a tool included with the Range Manager's Toolkit (RMTK) extension for ArcView 9.3.1. The specifications are as follows:

- Calibre - 5.56 mm, 7.62 mm, 40 mm TP, .50 Cal
- Ammunition - Ball M855 LNKD, Ball M80 LNKD, .50 Cal 4 TP Plastic M858, 40 mm TP M918 LNKD
- DODIC - A062, A128, A602, B584
- Lanes - 3 Active -
- Target Media - Earth
- Target Type - Ground, Stationary.
- SDZ Type - Cone and Batwing



Firing and Target Limits



- | | | | |
|--|-------------------|--|---------------|
| | Installation Area | | Buildings |
| | Cantonment Area | | Target Limits |
| | Range Footprints | | Firing Limits |



Projection: UTM Zone 14N
 Datum: NAD 83
 Prepared By: CFMO-PPB
 110310_GTS_H6_MachGunTran_Adds.mxd

H-6 . Machine Gun Field Fire

FIRING POINTS: 3

(using tripods/ring mounts/veh. mounted)

TOTAL TARGETS: 42

Per Lane: 14

AUTHORIZED WEAPONS / DODICs

M4/M16A2-A4	All 5.56mm DODICs
M249 SAW	All 5.56mm DODICs
M60 / M240	A128 / A131 / A152 / A163
MK-19	BA12/BA21 TP Only
M2 .50 cal	A602 / A603 ONLY (SRTA)

Target Ranges:

Personnel: 100 200 300 350 400 550 600 700 and 750m

Vehicular: 400 600 and 800m (*Thermalized*)

a. **References:**

- (1) FM 3-22.68.
- (2) AR 385-63.
- (3) DA Pam 385-63.
- (4) Specific TM and FM for the weapon being utilized.

b. **Location:** NK6209586014.

c. **Description:** This range is used to train and test soldiers on the skills necessary to zero/familiarize M249 SAW, M60 MG, M240 MG, MK-19 (BA12/BA21 TP Only), and M2 .50 cal Short Range Training Ammo (SRTA ONLY) weapon system; detect; identify; engage and defeat stationary infantry targets in a tactical array. The 10 meter zero firing line is located directly East of this range, and is identified as range H-17- MG 10m (Zero) with 5 firing points.

d. **Communications:** Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is not available on this range, secondary communication can be established by contacting GTS Range Control via cell phone at (402) 326-3027. Firing will not be initiated or will immediately cease when communications with Range Control is not operational. Range Cadre must sign for remote PA speakers from GTS-HQ for control of personnel movement and issuing range commands

e. **Safety Precautions:**

- (1) GTS Safety Briefing and Range Book provided.
- (2) Only Range Control personnel qualified to maintain target mechanisms are authorized to proceed down range to repair targetry.
- (3) Range flags (day-occupied) and red beacon lights (HOT/firing and at night/limited visibility) will be flown from the Machine Gun Range flagpole.
- (4) A medical aid man/medic must be present on the range during the conduct of live firing. Additional medical requirements are:
 - (a) The aid man must be MOS qualified or certified Combat Lifesaver equivalent.
 - (b) The aid man must have a current up-dated standard aid bag and litter on-site.
 - (c) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.
 - (d) A dedicated ambulatory vehicle capable of litter-bearing must be on site with a driver other than the medic.

(5) OIC must be a minimum of E7 or above. Range Safety Officer must be minimum of E6 or above with valid OIC/RSO Certification card, and must be on BN CMD designated memo on file with GTS-RC.

f. **Special Instructions:**

- (1) Units will not utilize the transition range with the M2 or M60/M240 machine guns without first conducting a zero exercise (refer to the specific weapon system FM).
- (2) Night Firing: Prior to any night firing on the MG range, units will set in weapons before dark with a range card for each weapon to ensure firers do not fire across adjacent lanes.
- (3) Each firing point utilized on the firing line will have a dedicated Assistant Range Safety Officer to ensure the weapon is operational; to assist the gunner in the application of remedial action when immediate action has failed to reduce a malfunction or stoppage; to observe for any unsafe condition during firing; to ensure the gunner fires only in his/her assigned lane; and to prevent injury to personnel.

(4) M2/50 caliber machine gun with M3 Recoil Amplifier can only be conducted using .50 cal TP Plastic M858 4/1 TP-T Plastic M680 (DODIC A602) or .50 cal TP Plastic M858 LNKD (DODIC A603).

(5) All personnel on the firing line must wear hearing protection, required firing uniform is to be determined by Unit Commander, based on the CRM analysis, unless qualification/validation standards dictate a prescribed uniform.

(6) Range Cadre are not required to wear Kevlar and field gear, unless directed by Unit Command.

g. **Road Guard Requirements:** None.

h. **Impact Area closed during firing:** See Range Surface Danger Zone.

i. **Range/s closed during firing:**

(1) M249(5.56mm LNKD): Prevents use of Range H1A, Prevents target maintenance on H9/10 AT-4 Sub-cal and H2 M203/320 Grenade Launcher Range.

(2) M60/M240 (7.62mm LNKD-M80); Prevents use Range H1A, Prevents target maintenance on H9/10 AT-4 Sub-cal and H2 M203/320 Grenade Launcher Range.

(3) M2(-.50 cal SRTA): Prevents use of Range H1A

j. **Barriers:**

(1) All GTS SDZ Barrier gates must be closed and locked. GTS Range Control must complete a 100% visual inspection of and sweep of the Impact Area.

k. **Transportation of Ammunition:** For transportation of ammunition from the ASP to the range, unit must have inventoried and signed DA Form 581 and transport ammunition IAW established requirements. Ammunition and weapons will not be transported in the same vehicle.

MK-19 40-MM Grenade Machine Gun Range (MK 19)

a. **References:**

(1) FM 3-22.27.

(2) AR 385-63.

(3) DA Pam 385-63.

(4) DA Pam 385-64.

b. **Location:** NK6209586015.

c. **Description and Capacity:** This range is used to train and test individual soldiers on the skills necessary for firing the MK-19. The soldiers practice target observation, fire adjustment, machine gun traversing, searching, developing speed during operation and obtaining an accurate burst. Range consists of 3 lanes with point and area targets. Weapons and ammunition authorized are MK19/ BA12/BA21 TP Only.

d. **Communications:** SAME AS ABOVE.

e. **Safety precautions:**

(1) NO HE AMMUNITION IS AUTHORIZED FOR USE ON THIS RANGE – ONLY TRAINING PRACTICE ROUNDS (TP).

(2) OIC must be a minimum of E7 or above. Safety Officer must be minimum of E6 or above.

f. **Special Instructions:**

(1) All personnel on the firing line and within the 20-meter radius of each weapon system will wear approved protective helmets, gloves, protective body armor, single hearing protection, and proper eye protection.

(2) Daily noise exposure limit within the contour hazard area (20 meter radius) is 1000 rounds per day.

(3) Targets will be engaged only at ranges greater than 80 meters.

(4) Firing through obstructions is prohibited.

(5) Using units will be required to recover fired/expended rounds, under the supervision of Range Control personnel, at the completion of the range event. All Army personnel recovering 40-MM M918 TP projectiles will follow the procedures outlined in TB 9-1310-251-10. The use of protective equipment listed in TB 9-1310-251-10 when recovering rounds is mandatory.

g. **Road guard requirement:** None.

h. **Impact Area closed during operation:** See Range Safety Fan.

i. **Ranges closed during operation:**

j. **Barriers:** SAME AS ABOVE

k. **Transportation of Ammunition:** SAME AS ABOVE

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Greenlief Training Site (NE)

Surface Danger Zone

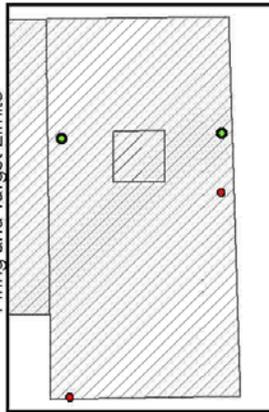
AT4 LAW M287 Qual. - H9

The Surface Danger Zone (SDZ) was prepared using the SDZ Generator, a tool included with the Range Manager's Toolkit (RMTK) extension for ArcView 9.3.1. The specifications are as follows:

- Calibre - 9 mm
- Ammunition - Trainer M939
- DODIC - A358
- Lanes - 2
- Target Media - All (Worst Case Scenario)
- Target Type - Ground, Stationary.
- SDZ Type - Cone

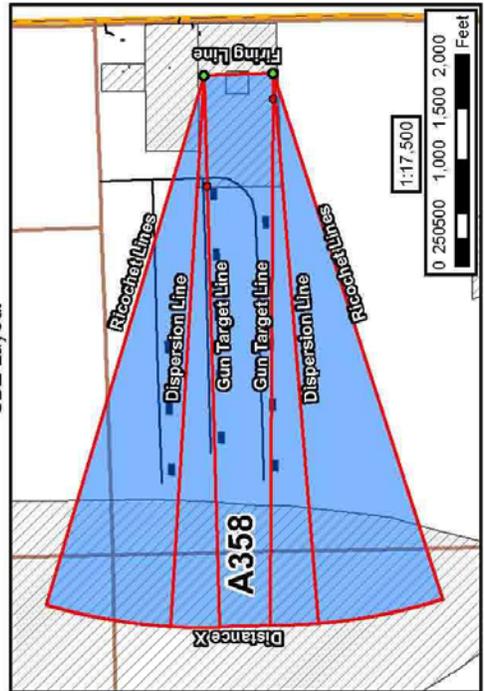


Firing and Target Limits

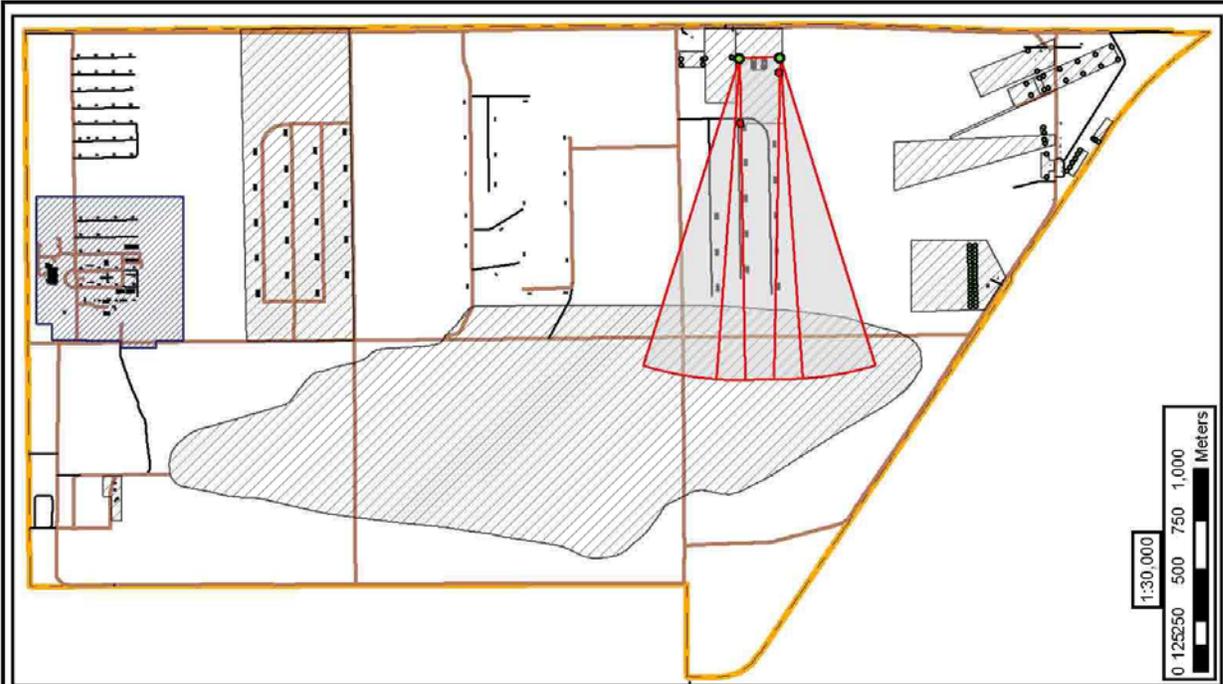


	Installation Boundary
	Cantonment Area
	Range Footprints
	Buildings
	Target Limits
	Firing Limits

SDZ Layout



Projection: UTM Zone 14N
 Date: NAD 83
 Prepared By: CFMO-PPB
 101027_GTS_H9_AT4LAW.mxd



H-9. AT-4 Sub-caliber Qualification Range

FIRING POINTS: 8

AUTHORIZED WEAPONS / DODICs

M136 AT4 Sub-cal Trainer A358 (M287 9mm)

TOTAL TARGETS: 17

Per Lane: 8 (+ 1 shared Moving TGT)

a. References:

- (1) FM 3-23.25
- (2) AR 385-63.
- (3) DA Pam 385-63.

b. Location: NK6250787436.

c. **Description and Capacity:** This range is used to train soldiers on the skills necessary to defeat armored vehicles with light anti-armor weapons. Range consists of 8 firing points. Weapon/ammunition authorized for use on this range is AT-4/9mm sub caliber only.

d. **Communications:** Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is not available on this range, secondary communication can be established by contacting GTS Range Control via cell phone at (402) 326-3027. Firing will not be initiated or will immediately cease when communications with Range Control is not operational. Range Cadre must sign for remote PA speakers from GTS-HQ for control of personnel movement and issuing range commands.

e. Safety Precautions:

(1) GTS Safety Briefing and Range Book provided.

(2) HIGH EXPLOSIVE AMMUNITION IS RESTRICTED FROM USE ON THIS RANGE. ONLY 9mm SUBCALIBER AMMUNITION WILL BE UTILIZED. 9mm Round does not have a back blast, ALL training on the AT-4/LAW Sub-cal weapon WILL observe the 100m back blast area of the service round. DO NOT FIRE THE TRACER TRAINER AT TARGETS LESS THAN 125m.

(3) All movement on the range will be directed by the OIC. RSO will verify all weapons are SAFE and the firing line is clear prior to allowing shooters to move to the firing line or depart the range.

(4) Range flags (day-occupied) and red beacon lights (HOT/firing and at night/limited visibility) will be flown from the AT-4 Sub-cal flagpole located east of the range tower.

(5) A medical aid man/medic must be present on the range during the conduct of live firing. Additional medical requirements are:

(a) The aid man must be MOS qualified or certified Combat Lifesaver equivalent.

(b) The aid man must have a current up-dated standard aid bag and litter on-site.

(c) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.

(d) A dedicated ambulatory vehicle capable of litter-bearing must be on site with a driver other than the medic.

(6) OIC must be a minimum of E7 or above. Range Safety Officer must be minimum of E6 or above with valid OIC/RSO Certification card, and must be on BN CMD designated memo on file with GTS-RC.

f. Special Instructions:

(1) Range Officer and Range Safety Officer will report to Range Control for a range safety briefing and turn in a risk assessment worksheet (IAW FM 5-19) prior to issue of the range.

(2) All personnel on the firing line must wear hearing protection, required firing uniform is to be determined by Unit Commander, based on the CRM analysis, unless qualification/validation standards dictate a prescribed uniform.

(3) Range Cadre are not required to wear Kevlar and field gear.

g. **Road Guard Requirements:** None.

h. **Impact Area closed during firing:** See Range Surface Danger Zone.

i. **Ranges closed during firing:** None.

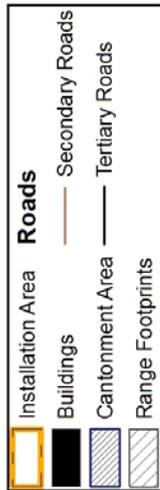
j. **Barriers:**

(1) All GTS SDZ Barrier gates must be closed and locked. GTS Range Control must complete a 100% visual inspection and sweep of the Impact Area.

k. **Transportation of Ammunition:** For transportation of ammunition from the ASP to the range, unit must have inventoried and signed DA Form 581 and transport ammunition IAW established requirements. Ammunition and weapons will not be transported in the same vehicle.

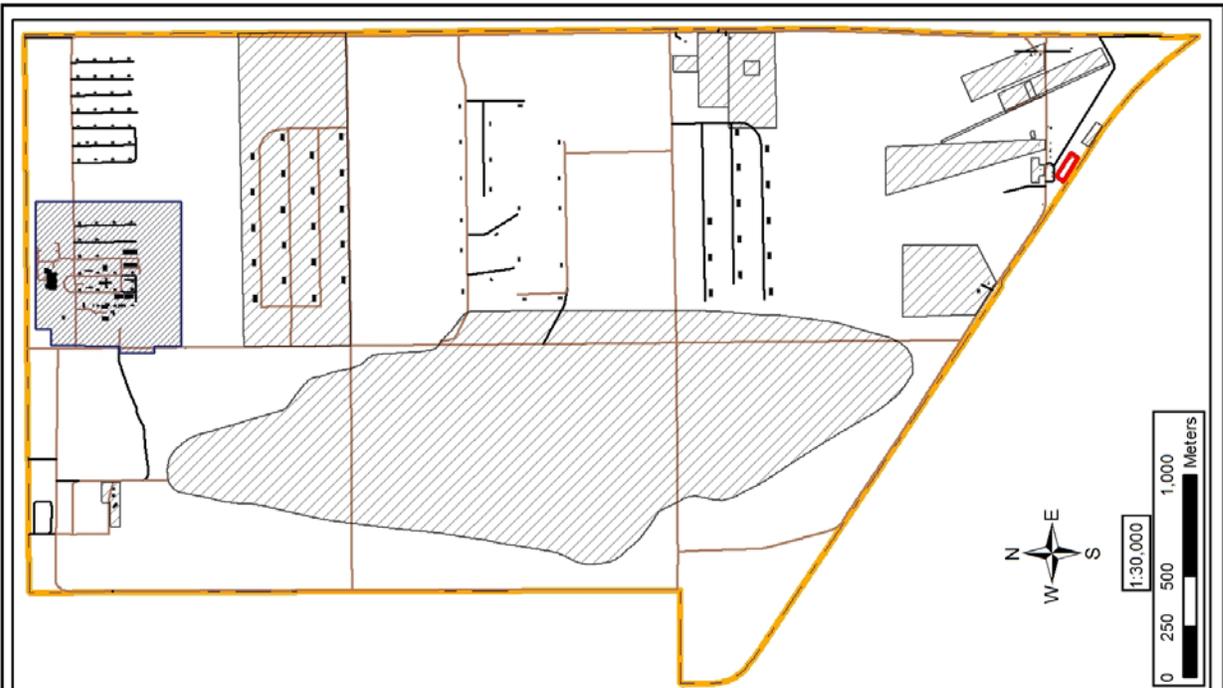
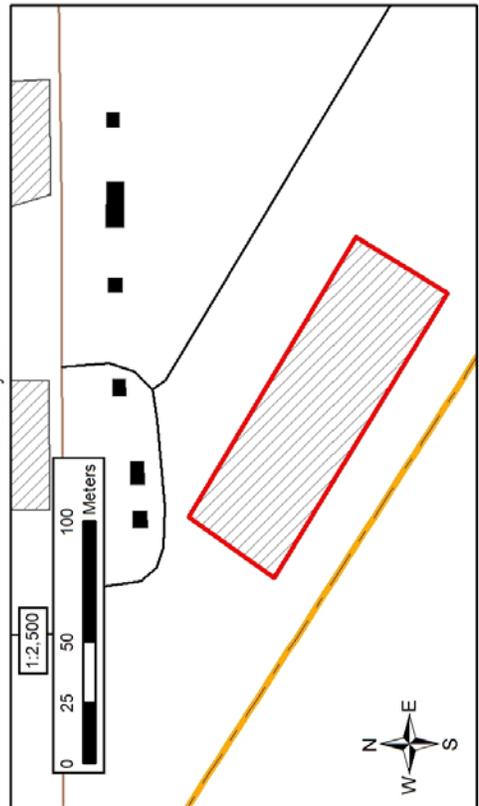
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Greenlief Training Site (NE) Hand Grenade Qualification Range



Projection: UTM Zone 14N
Datum: NAD 83
Prepared By: CFMO-PPB
101130_GTS_H19_MPCPOC.mxd

SDZ Layout



H-11. Hand Grenade Qualification Course (Non Live Fire)

THROWING STATIONS: 7

AUTHORIZED WEAPONS / DODICs

Fused Practice Hand Grenade G878 (M228)

TOTAL TARGETS: N/A

a. References:

- (1) FM 3-23.30
- (2) AR 385-63.
- (3) DA Pam 385-63.
- (4) Specific TM and FM for grenade being utilized.

GTS Range Control Channel: 1

Range Admin Channel: None

b. Location: NK6199285887.

c. Description and Capacity: This range is used to train and test individual soldiers in the employment of hand grenades using the proper gripping procedures and throwing techniques. Weapon/ammunition authorized: M69 practice grenade/M228 fuse. Course consists of seven stations IAW FM 3-23.30.

Station 1 - engage a group of F-type silhouettes in open from 2 man foxhole. Targets 35 meters to front beyond squad's protective wire.

Station 2 - engage a bunker with two firing portholes.

Station 3 - engage a fortified 82mm mortar position from 20 meters.

Station 4 - engage groups of targets behind cover 20 meters distance.

Station 5 - clear an entry point to a trench 25 meters distance.

Station 6 - engage troops in halted, open wheeled vehicle 25 meter distance.

Station 7 - identify hand grenades by shape, coloring, markings, and capabilities..

d. Communications: Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is not available on this range, secondary communication can be established by contacting GTS Range Control via cell phone at (402) 326-3027. Firing will not be initiated or will immediately cease when communications with Range Control is not operational. Range Cadre must sign for remote PA speakers from GTS-HQ for control of personnel movement and issuing range commands.

e. Safety Precautions:

(1) GTS Safety Briefing and Range Book provided.

(2) Practice grenade fuses will not be used without the practice grenade bodies. Fuses will be secured in the grenade body prior to use. ONLY 1 GRENADE MAY BE THROWN AT A TIME PER STATION. RANGE OIC WILL VERIFY DETONATION OF EACH GRENADE FUZE. FUZES THAT FAIL TO DETONATE WILL BE COVERED WITH A SAND BAG AT THE MIS-FIRE PIT AND TURNED IN TO ASP.

(3) RANGE OIC WILL ENSURE COMPLETE DETONATION OF EACH GRENADE. IN THE EVENT THAT A GRENADE FAILS TO DETONATE (DUD), RANGE OPERATIONS WILL CEASE (NO FURTHER THROWING OF GRENADES IN THE AREA OF THE DUD) AND THE RANGE OIC WILL CONTACT RANGE CONTROL. MAKE NOTE OF THE TIME AND WAIT 5 MINUTES. IF FUZE HAS STILL NOT DETONATED RANGE SAFETY OFFICER WILL REMOVE GRENADE (LEAVING FUZE INTACT) AND PLACE IT UNDER SAND BAGS IN THE MIS-FIRE PIT UNTIL IT CAN BE RETURNED TO THE ASP. APPENDIX B, FM 3-23.30 CONTAINS DETAILED SAFETY PROCEEDURES TO FOLLOW).

(5) Range flags not required for this course.

(6) Grenades will not be thrown into standing water, deep snow or dense vegetation.

(7) Range OIC will ensure all personnel are proficient in the safety precautions used for handling and throwing grenades before live grenade training begins.

(8) A medical aid man/medic must be present on the range during the conduct of live firing/training.

Additional medical requirements are:

(a) The aid man must be MOS qualified.

(b) The aid man must have a standard aid bag and litter.

(c) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.

(d) A litter-bearing vehicle must be on site with a driver other than the medic and capable of transporting a litter patient.

(9) OIC must be a minimum of E7 or above. Safety Officer must be minimum of E6 or above.

f. Special Instructions:

(1) Range Officer and Range Safety Officer will report to Range Control for a range safety briefing and turn in a risk assessment worksheet (IAW FM 5-19) prior to issue of the range.

(2) All personnel on the firing line must wear hearing protection, required firing uniform is to be determined by Unit Commander, based on the CRM analysis, unless qualification/validation standards dictate a prescribed uniform.

(3) Range Cadre are not required to wear Kevlar and field gear.

g. **Road Guard Requirements:** None.

h. **Impact Area closed during firing:** See Range Surface Danger Zone.

i. **Ranges closed during firing:** None.

j. **Barriers:**

(1) All GTS SDZ Barrier gates must be closed and locked. GTS Range Control must complete a 100% visual inspection and sweep of the Impact Area.

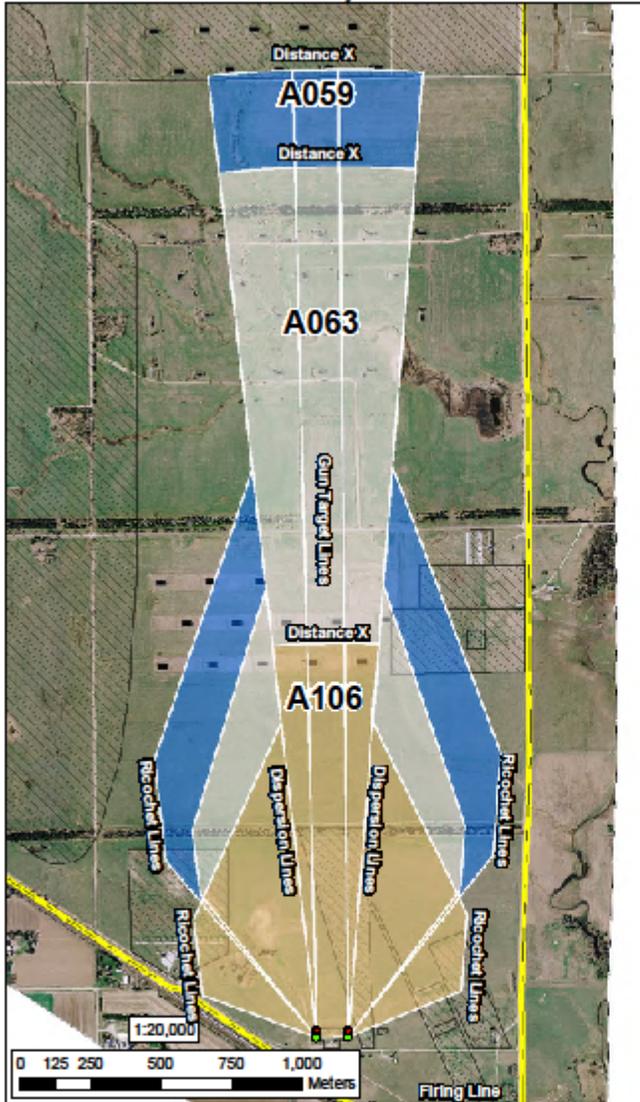
k. **Transportation of Ammunition:** For transportation of ammunition from the ASP to the range, unit must have inventoried and signed DA Form 581 and transport ammunition IAW established requirements. Ammunition and weapons will not be transported in the same vehicle.

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Greenleaf Training Site (NE)

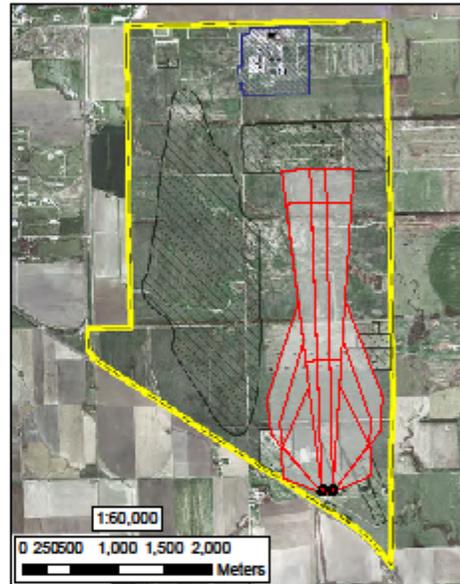
Surface Danger Zone - Basic 25 M Zero - H16

SDZ Layout



The Surface Danger Zone (SDZ) was prepared using the SDZ Generator, a tool included with the Range Manager's Toolkit (RMTK) extension for ArcView 9.3.1. The specifications are as follows:

- Calibre - .22, 5.56 mm,
- Ammunition - LR BALL, BALL M855 CLPD, TR M856 SINGL RD
- DODIC - A059, A063, A106, A143
- Lane -
- Target Media - All (Worst Case Scenario)
- Target Type - Ground, Stationary.
- SDZ Type - Batwing



Firing and Target Limits



- | | | | |
|--|-------------------|--|-----------------------|
| | Installation Area | | Buildings |
| | Cantonment Area | | Target Site selection |
| | Range Footprints | | Firing Site selection |



Projection: UTM Zone 14N
 Datum: NAD 83
 Prepared By: CFMO-PPB
 101025_GTS_H17_M010MZero.mxd

H-16. 10/25m Zero Range

FIRING POINTS: 48

AUTHORIZED WEAPONS / DODICs

TOTAL TARGETS: 48

M9/M1911/.22calPistol All Pistol DODICs
M4/M16A2/A4 All 5.56mm DODICs

Per Lane: 1

Target Ranges:

Foam type backers supporting standard 25m/300scaled zero targets. Range is also capable of being used with 2x4 lumber frames for CQB type engagements.

a. References:

- (1) FM 3-22.9.
- (2) AR 385-63.
- (3) DA Pam 385-63.

GTS Range Control Channel: 1

Range Admin Channel: 4

b. Location: NK6195486005.

c. Description and Capacity: This range is used to train individual soldiers on the skills necessary to align the sights and practice basic marksmanship techniques against stationary targets. The range is designed for training “shot grouping” and zeroing exercises with the M16 and M4 series rifles as well referring various optics to align with weapon sights. The firing line is crushed rubber with 48 points. Targets are mounted on foam backers or fixed frames. This range is used for the M16 rifle at 25m. Weapons/ammunition authorized for use on this range is primarily the M16 series and M4/5.56mm Assault Rifle, however, various pistols can be fired on the range as well. If pistols are intended to be used, using unit must coordinate with GTS-RC to ensure SDZ compatibility.

d. Communications: Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is available on this range, secondary Alternate communication can be established by contacting GTS Range Control via cell phone at (402) 326-3027. Firing will not be initiated or will immediately cease when communications with Range Control is not operational. Range is also equipped with a Public address system in the range tower for control of personnel movement and issuing range commands.

e. Safety Precautions:

- (1) GTS Safety Briefing and Range Book provided.
- (2) Shooters will proceed downrange to score and mark targets only at the direction of the tower. RSO will verify all weapons are SAFE and the firing line is clear prior to allowing shooters to move forward.
- (3) Range flags (day-occupied) and red beacon lights (HOT/firing and at night/limited visibility) will be flown from the Zero Range flagpole located southwest of the range tower.
- (4) A medical aid man/medic must be present on the range during the conduct of live firing. Additional medical requirements are:
 - (a) The aid man must be MOS qualified or certified Combat Lifesaver equivalent.
 - (b) The aid man must have a current up-dated standard aid bag and litter on-site.
 - (c) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.
 - (d) A dedicated ambulatory vehicle capable of litter-bearing must be on site with a driver other than the medic.
- (5) OIC must be a minimum of E6 or above. Range Safety Officer must be minimum of E6 or above with valid OIC/RSO Certification card, and must be on BN CMD designated memo on file with GTS-RC.

f. Special Instructions:

- (1) Range Officer and Range Safety Officer will report to Range Control for a range safety briefing and turn in a risk assessment worksheet (IAW FM 5-19) prior to issue of the range.
- (2) All personnel on the firing line must wear hearing protection, required firing uniform is to be determined by Unit Commander, based on the CRM analysis, unless qualification/validation standards dictate a prescribed uniform.
- (3) Range Cadre are not required to wear Kevlar and field gear.

g. Road Guard Requirements: None.

h. Impact Area closed during firing: See Range Surface Danger Zone.

i. Ranges closed during firing:

Firing Lines Closed: .22cal (A106/107) closes MRF and KD
5.56mm - None

*Target Maintenance closed: .22cal (A106/107) MRF, MG Trans, 10m MG Zero, KD, and Field Fire.
5.56mm (A053/063) MRF, MG Trans, Field Fire, AT-4/LAW. And M203.*

j. Barriers:

(1) All GTS SDZ Barrier gates must be closed and locked. GTS Range Control must complete a 100% visual inspection and sweep of the Impact Area.

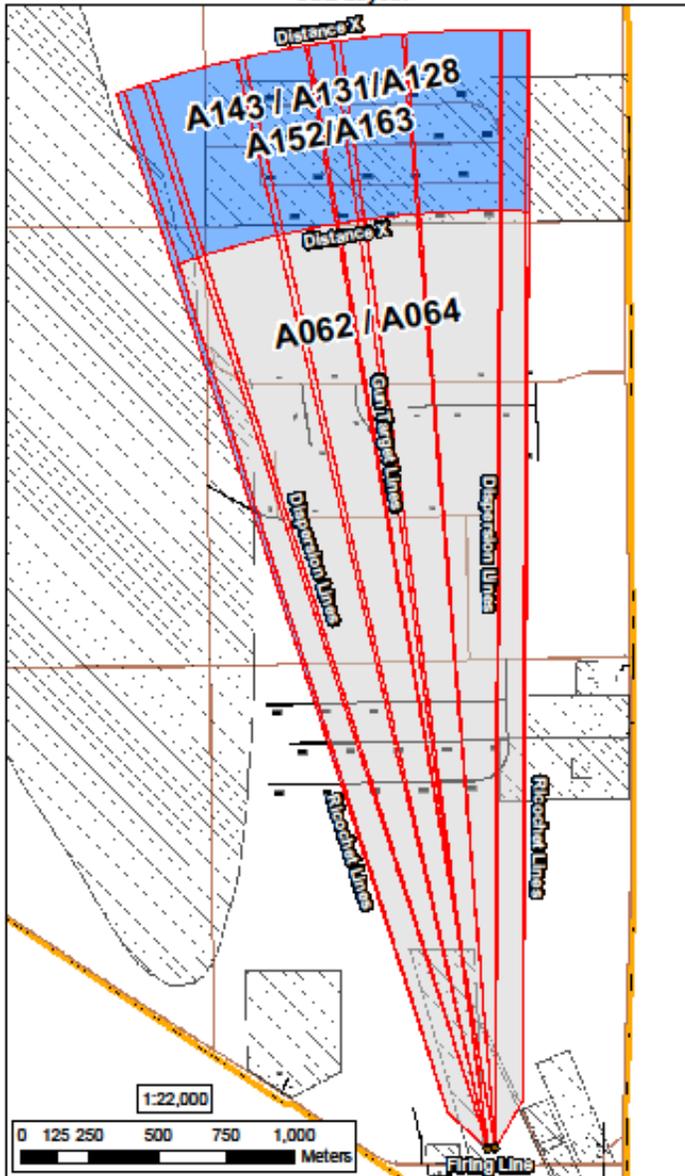
k. Transportation of Ammunition: For transportation of ammunition from the ASP to the range, unit must have inventoried and signed DA Form 581 and transport ammunition IAW established requirements. Ammunition and weapons will not be transported in the same vehicle.

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Greenleaf Training Site (NE)

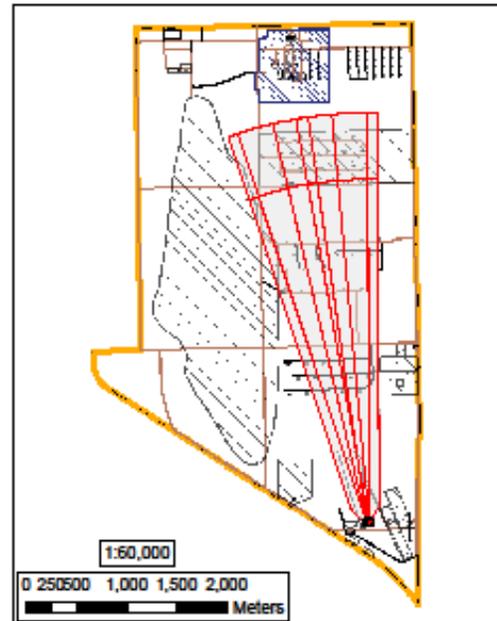
Surface Danger Zone - Machine Gun 10 M Zero - H17

SDZ Layout

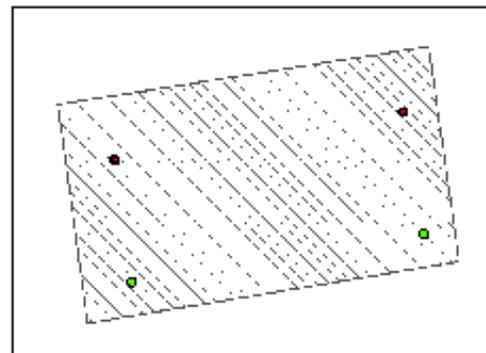


The Surface Danger Zone (SDZ) was prepared using the SDZ Generator, a tool included with the Range Manager's Toolkit (RMTK) extension for ArcView 9.3.1. The specifications are as follows:

- Calibre - 5.56 mm, 7.62 mm
- Ammunition - M855 CLPD, TR M856 SNGL RD, LR Ball, Ball M80 LNKD
- DODIC - A059, A063, A143, A131, A128, A152, A163
- Lane - 3
- Target Media - Earth
- Target Type - Ground, Stationary
- SDZ Type - Cone



Firing and Target Limits



- | | | | |
|---|-------------------|---|---------------|
|  | Installation Area |  | Buildings |
|  | Cantonment Area |  | Target Limits |
|  | Range Footprints |  | Firing Limits |



Projection: UTM Zone 14N
 Datum: NAD 83
 Prepared By: CFMOC-PPB
 101025_GTS_H17_MG10MZero.mxd

H-17. 10m Machine Gun Zero

FIRING POINTS: 5

(using tri-pods/bi-pods)

AUTHORIZED WEAPONS / DODICs

M249 SAW	A064/A062
M60 / M240	A128 /A131/A143/A152/A163

TOTAL TARGETS: 5

Per Lane: 1

Target Ranges:

Target Frames: 10m

a. **References:**

- (1) FM 3-22.68.
- (2) AR 385-63.
- (3) DA Pam 385-63.
- (4) Specific TM and FM for the weapon being utilized.

GTS Range Control Channel: 1

Range Admin Channel: 8

b. **Location:** NK6214986039

c. **Description and Capacity:** This range is used to train individual soldiers on the skills necessary to align the sights and practice basic marksmanship techniques against stationary targets. The range is designed for training shot grouping and zeroing exercises with the M249 SAW and M240b crew served machine guns. This range has 5 firing points. Targets are mounted on fixed frames.

d. **Communications:** Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is not available on this range, secondary communication can be established by contacting GTS Range Control via cell phone at (402) 326-3027. Firing will not be initiated or will immediately cease when communications with Range Control is not operational. Range cadre must sign for a remote PA system from GTS HQ in support of this range.

e. **Safety Precautions:**

- (1) GTS Safety Briefing and Range Book provided.
- (2) All movement on the range will be directed by the OIC. RSO will verify all weapons are SAFE and the firing line is clear prior to allowing shooters to move to the firing line or depart the range.
- (3) Range flags (day-occupied) and red beacon lights (HOT/firing and at night/limited visibility) will be flown from the 10m MG Range flagpole located southwest of the firing line.
- (4) A medical aid man/medic must be present on the range during the conduct of live firing. Additional medical requirements are:
 - (a) The aid man must be MOS qualified or certified Combat Lifesaver equivalent.
 - (b) The aid man must have a current up-dated standard aid bag and litter on-site.
 - (c) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.
 - (d) A dedicated ambulatory vehicle capable of litter-bearing must be on site with a driver other than the medic.
- (5) OIC must be a minimum of E7 or above. Range Safety Officer must be minimum of E6 or above with valid OIC/RSO Certification card, and must be on BN CMD designated memo on file with GTS-RC.

f. **Special Instructions:**

- (1) Range Officer and Range Safety Officer will report to Range Control for a range safety briefing and turn in a risk assessment worksheet (IAW FM 5-19) prior to issue of the range.
- (2) All personnel on the firing line must wear hearing protection, required firing uniform is to be determined by Unit Commander, based on the CRM analysis, unless qualification/validation standards dictate a prescribed uniform.
- (3) Range Cadre are not required to wear Kevlar and field gear.

g. **Road Guard Requirements:** None.

h. **Impact Area closed during firing:** See Range Surface Danger Zone.

i. **Ranges closed during firing:** None.

j. **Barriers:**

- (1) All GTS SDZ Barrier gates must be closed and locked. GTS Range Control must complete a 100% visual inspection and sweep of the Impact Area.

k. **Transportation of Ammunition:** For transportation of ammunition from the ASP to the range, unit must have inventoried and signed DA Form 581 and transport ammunition IAW established requirements. Ammunition and weapons will not be transported in the same vehicle.

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Greenlief Training Site (NE)

Surface Danger Zone

Auto Combat Pistol MPQC - H20

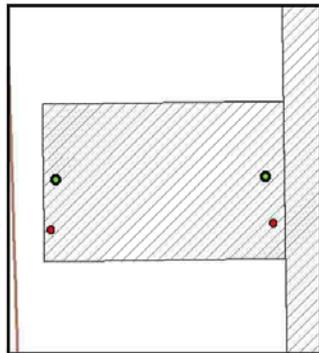
The Surface Danger Zone (SDZ) was prepared using the SDZ Generator, a tool included with the Range Manager's Toolkit (RMTK) extension for ArcView 9.3.1. The specifications are as follows:

- Calibre - .22 cal, 12 gauge Shotgun, 9 mm, .45 cal
- Ammunition - Trainer M939
- DODIC - A011, A106, A363, A475
- Lanes - 13
- Target Media - Earth
- Target Type - Ground, Stationary.
- SDZ Type - Batwing

	Installation Area	A106
	Buildings	A475
	Cantonment Area	A011
	Range Footprints	A363

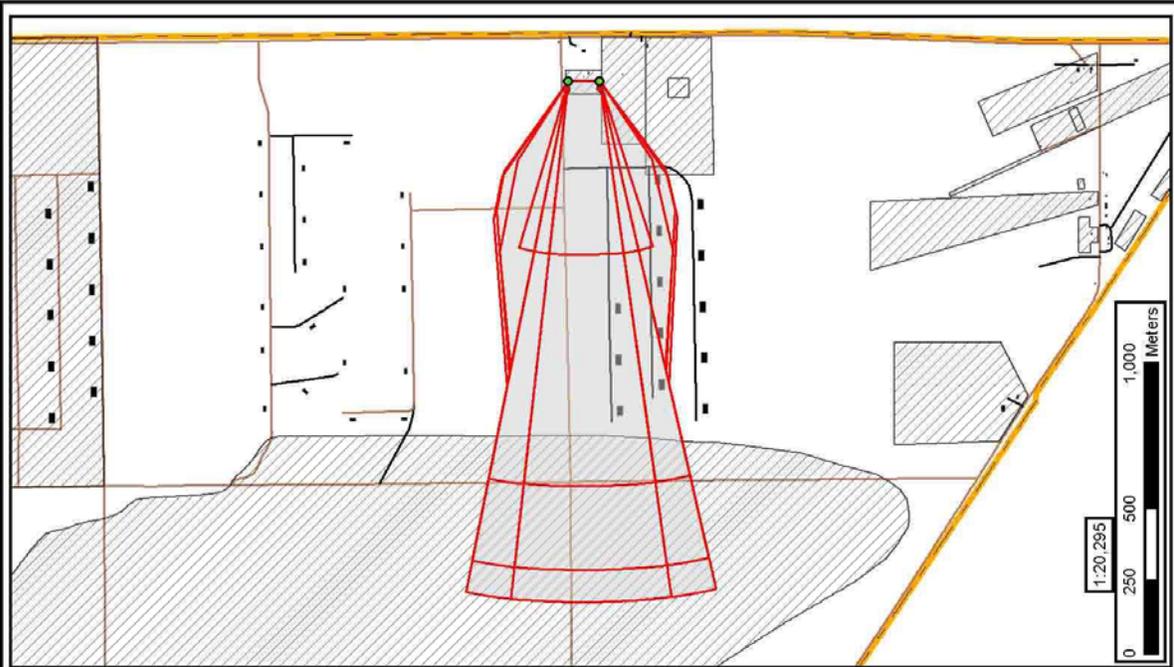
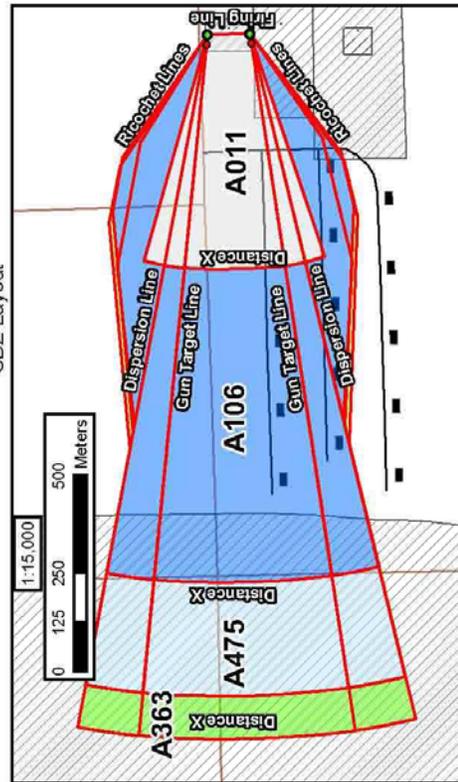


Firing and Target Limits



Projection: UTM Zone 14N
 Datum: NAD 83
 Prepared By: CEM,PPB
 101100_LTRS_H19_MPQC.mxd

SDZ Layout



H-20. Combat Pistol/Military Police Qualification Course (CP/MPQC) and Shotgun Familiarization Range.

FIRING POINTS: 13

AUTHORIZED WEAPONS / DODICs

22cal Pistol	A106
9mm Pistol	A363
.38cal Pistol	A400
.45 cal Pistol	A475
M1200 Shotgun	A011

TOTAL TARGETS: 91

Per Lane: 7

Target Ranges:

This range has 13 lanes with seven pop-up silhouette targets located at 10, 13, 16, 17, 23, 27 and 31 meters in each lane.

a. References:

- (1) FM 3-22.9.
- (2) AR 385-63.
- (3) DA Pam 385-63.

GTS Range Control Channel: 1

Range Admin Channel: 6

b. Location: NK6252587764

c. Description and Capacity: This range is used to train and test soldiers on the skills necessary to detect, identify, engage and defeat stationary targets in a tactical array. The complex satisfies the training and qualification requirements of the 9mm, 38 caliber, and .45 caliber pistols and M1200 Shotgun . Targets are electrically activated and scored from the range control tower. Weapons/ammunition authorized for use on this range are pistol .22 caliber , 9mm, .38 caliber, .45 caliber and 12ga Shotgun.

d. Communications: Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is available on this range, secondary communication can be established by contacting GTS Range Control via cell phone at (402) 326-3027. Firing will not be initiated or will immediately cease when communications with Range Control is not operational. Range is also equipped with a Public address system in the range tower for control of personnel movement and issuing range commands.

e. Safety Precautions:

(1) GTS Safety Briefing and Range Book provided.
(2) Shooters required to fire while moving during qualification, RSO, Block Safeties and Tower must ensure shooters remain on-line with one another while negotiating course of fire. All movement on the range will be directed by the tower. RSO will verify all weapons are SAFE and the firing line is clear prior to allowing shooters to depart the range.

(3) Range flags (day-occupied) and red beacon lights (HOT/firing and at night/limited visibility) will be flown from the CP/MPQC flagpole located east of the range tower on East Boundary Road. Unit is **NOT** responsible for raising this flag, GTS-RC will place flag and turn on beacon as part of the Range Sweep. Using unit must report to GTS-RC upon occupying the range.

(4) A medical aid man/medic must be present on the range during the conduct of live firing. Additional medical requirements are:

(a) The aid man must be MOS qualified or certified Combat Lifesaver equivalent.

(b) The aid man must have a current up-dated standard aid bag and litter on-site.

(c) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.

(d) A dedicated ambulatory vehicle capable of litter-bearing must be on site with a driver other than the medic.

(5) OIC must be a minimum of E7 or above. Range Safety Officer must be minimum of E6 or above with valid OIC/RSO Certification card, and must be on BN CMD designated memo on file with GTS-RC.

f. Special Instructions:

(1) Range Officer and Range Safety Officer will report to Range Control for a range safety briefing and turn in a risk assessment worksheet (IAW FM 5-19) prior to issue of the range.

(2) All personnel on the firing line must wear hearing protection, required firing uniform is to be determined by Unit Commander, based on the CRM analysis, unless qualification/validation standards dictate a prescribed uniform.

(3) Range Cadre are not required to wear Kevlar and field gear.

g. **Road Guard Requirements:** None.

h. **Impact Area closed during firing:** See Range Surface Danger Zone.

i. **Ranges closed during firing:** None.

j. **Barriers:**

(1) All GTS SDZ Barrier gates must be closed and locked. GTS Range Control must complete a 100% visual inspection and sweep of the Impact Area.

k. **Transportation of Ammunition:** For transportation of ammunition from the ASP to the range, unit must have inventoried and signed DA Form 581 and transport ammunition IAW established requirements. Ammunition and weapons will not be transported in the same vehicle.

25-Meter Shotgun Firing Range (Shotgun Qualification Range)

a. **References:**

(1) STP 19-95C1-SM

(2) AR 385-63.

(3) DA Pam 385-63.

(4) Specific TM and FM for the weapon being utilized.

b. **Location:** H-20 CP/MPQC Range.

c. **Description and Capacity:** This range is used to train individual soldiers on the skills necessary to align the sights and practice basic marksmanship techniques against stationary targets. The range is designed for training qualification standards and qualifying with the Military Shotgun. This range has 13 firing points (with barricades). Targets are mounted on fixed frames that are placed at the 31m target line.

THIS COURSE OF FIRE CAN ALSO BE FIRED ON H-22 COMPETITION PISTOL RANGE (previously H-19).

d. **Communications:** SAME AS ABOVE.

e. **Safety Precautions:**

(1) Target frame height will not exceed 60 inches from the ground for each firing point being utilized

f. **Special Instructions:** SAME AS ABOVE.

g. **Road Guard Requirements:** None.

h. **Impact Area closed during firing:** See Range Surface Danger Zone.

i. **Ranges closed during firing:** None.

j. **Barriers:** SAME AS ABOVE

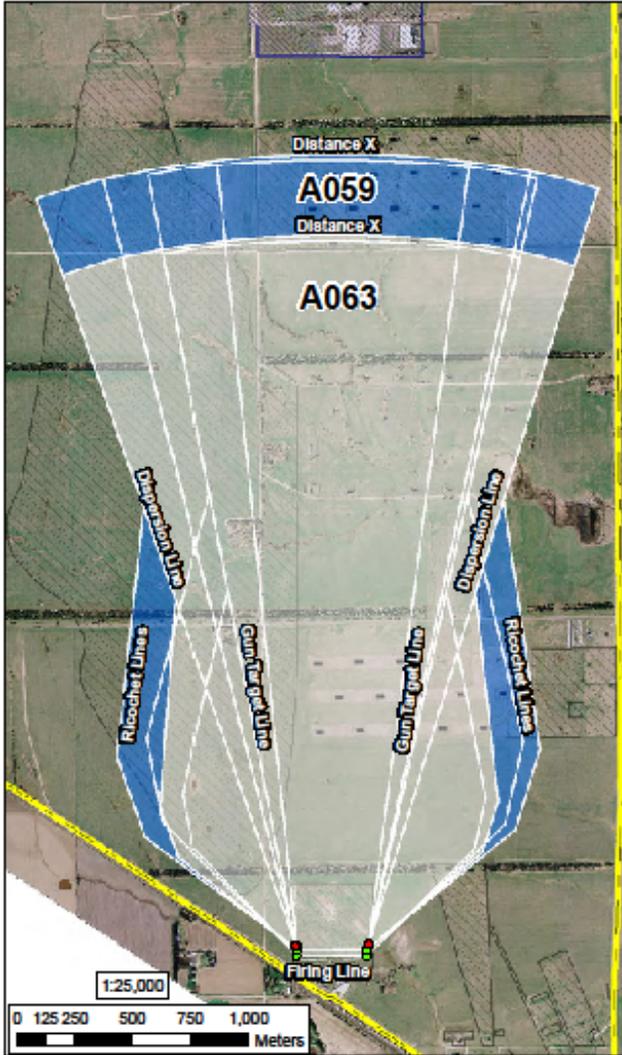
k. **Transportation of Ammunition:** SAME AS ABOVE

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Greenleaf Training Site (NE)

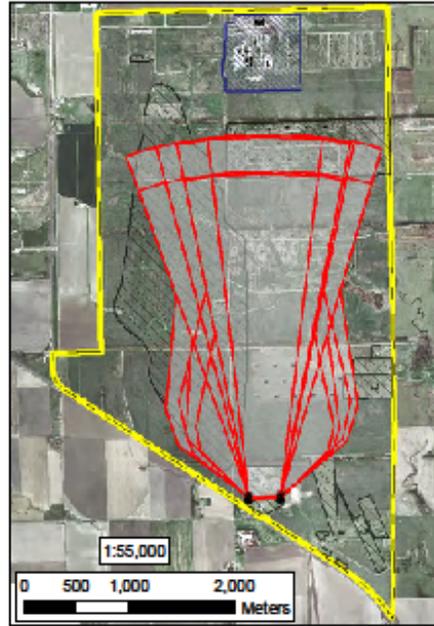
Surface Danger Zones - Modified Record Fire Range (MRF) - H21

SDZ Layout



The Surface Danger Zone (SDZ) was prepared using the SDZ Generator, a tool included with the Range Manager's Toolkit (RMTK) extension for ArcView 9.3.1. The specifications are as follows:

- Calibre - 5.56 mm
- Ammunition - Ball M855 CLPD, TR M856 SNGL RD
- DODIC - A059, A063
- Lane - 16
- Target Media - All (Worst Case Scenario)
- Target Type - Ground, Stationary
- SDZ Type - Batwing



Firing and Target Limits



	Installation Area		Buildings
	Cantonment Area		Target Limits
	Range Footprints		Firing Limits



Projection: UTM Zone 14N
 Datum: NAD 83
 Prepared By: CFMO-PPB
 101028_GTS_H21_MRF.mxd

H-21. Modified Record Fire Range (MRF)

FIRING POINTS: 16

AUTHORIZED WEAPONS / DODICs

TOTAL TARGETS: 144

M4/M16A2-A4 A059/A063

Per Lane: 9

Target Ranges:

Targets are 3d Ivan Silhouettes at 50m (2per lane), 75, 100, 150, 175, 200, 250 and 300m.

Range is capable of supporting Thermal Signature Infantry Targets, and Threat, Non-Threat/Friendly targets

a. References:

- (1) FM 3-22.9.
- (2) AR 385-63.
- (3) DA Pam 385-63.

GTS Range Control Channel: 1

Range Admin Channel: 5

b. Location: NK6142686330

c. Description and Capacity: This range is used to train and test individual soldiers on the skills necessary to identify, engage and defeat stationary infantry targets for day/night and CBRN qualification requirements with the M16 and M4 rifles. This range has 16 firing points. Weapons/ammunition authorized for use on this range are M16 series, and M4/5.56mm.

d. Communications: Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is available on this range, alternate communication can be established by contacting GTS Range Control via cell phone at (402) 326-3027. Firing will not be initiated or will immediately cease when communications with Range Control is not operational. Range is also equipped with 2 Public address system in the range tower for one for control of personnel movement and the second for issuing range commands.

e. Safety Precautions:

- (1) GTS Safety Briefing and Range Book provided.
- (2) All movement on the range will be directed by the OIC. RSO will verify all weapons are SAFE and the firing line is clear prior to allowing shooters to move to the firing line or depart the range.
- (3) Range flags (day-occupied) and red beacon lights (HOT/firing and at night/limited visibility) will be flown from the MRF range flagpole located southeast of the range tower.
- (4) A medical aid man/medic must be present on the range during the conduct of live firing. Additional medical requirements are:
 - (a) The aid man must be MOS qualified or certified Combat Lifesaver equivalent.
 - (b) The aid man must have a current up-dated standard aid bag and litter on-site.
 - (c) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.
 - (d) A dedicated ambulatory vehicle capable of litter-bearing must be on site with a driver other than the medic.
- (5) OIC must be a minimum of E7 or above. Range Safety Officer must be minimum of E6 or above with valid OIC/RSO Certification card, and must be on BN CMD designated memo on file with GTS-RC.

f. Special Instructions:

- (1) Range Officer and Range Safety Officer will report to Range Control for a range safety briefing and turn in a risk assessment worksheet (IAW FM 5-19) prior to issue of the range.
- (2) All personnel on the firing line must wear hearing protection, required firing uniform is to be determined by Unit Commander, based on the CRM analysis, unless qualification/validation standards dictate a prescribed uniform.
- (3) Range Cadre are not required to wear Kevlar and field gear.

g. Road Guard Requirements: None.

h. Impact Area closed during firing: See Range Surface Danger Zone.

i. Ranges closed during firing: None.

Closes target maintenance on: MG Trans and AT-4/LAW ranges

j. Barriers:

- (1) All GTS SDZ Barrier gates must be closed and locked. GTS Range Control must complete a 100% visual inspection and sweep of the Impact Area.

k. **Transportation of Ammunition:** For transportation of ammunition from the ASP to the range, unit must have inventoried and signed DA Form 581 and transport ammunition IAW established requirements. Ammunition and weapons will not be transported in the same vehicle.

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Greenleaf Training Site (NE)

Surface Danger Zone

Competition Pistol - H22

The Surface Danger Zone (SDZ) was prepared using the SDZ Generator, a tool included with the Range Manager's Toolkit (RMTK) extension for ArcView 9.3.1. The specifications are as follows:

- Calibre - .22 cal, 12 gauge Shotgun, 9 mm, .45 cal
- Ammunition - Trainer M839
- DODIC - A011, A106, A363, A475
- Lanes - 24
- Target Media - Earth
- Target Type - Ground, Stationary.
- SDZ Type - Batwing

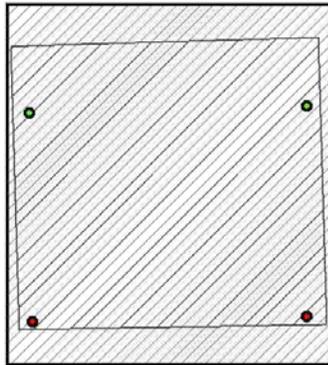
	Installation Area	A011
	Cantonment Area	A106
	Range Footprints	A363
	Buildings	A475



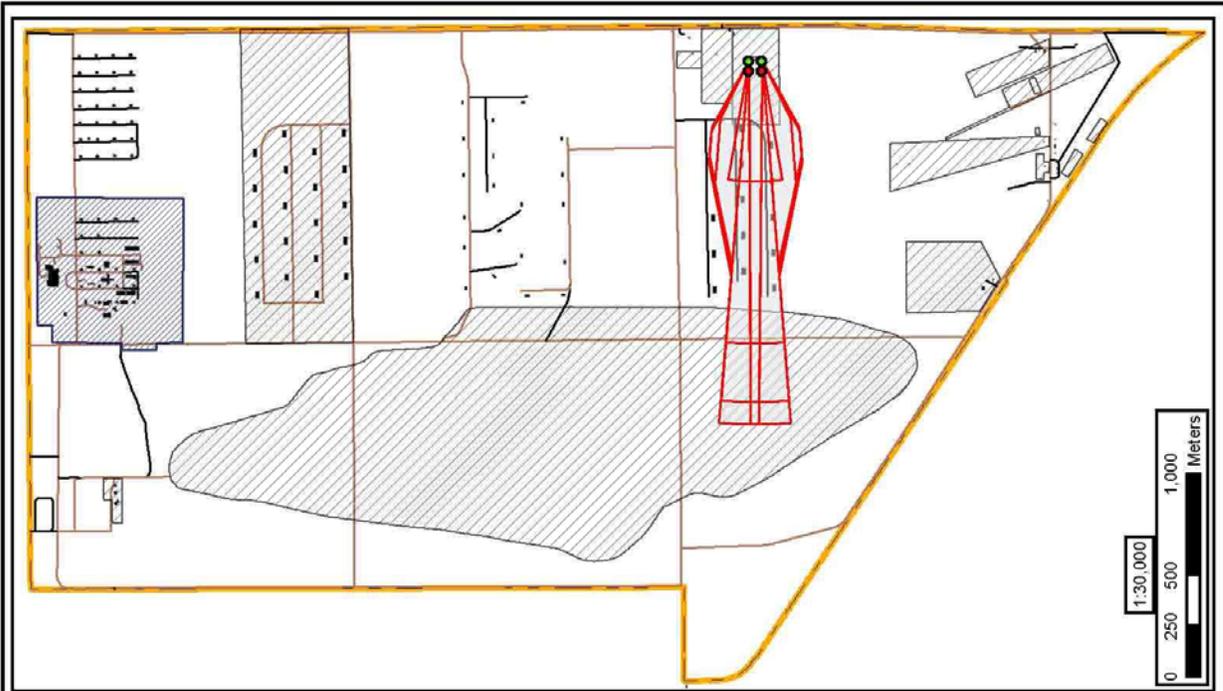
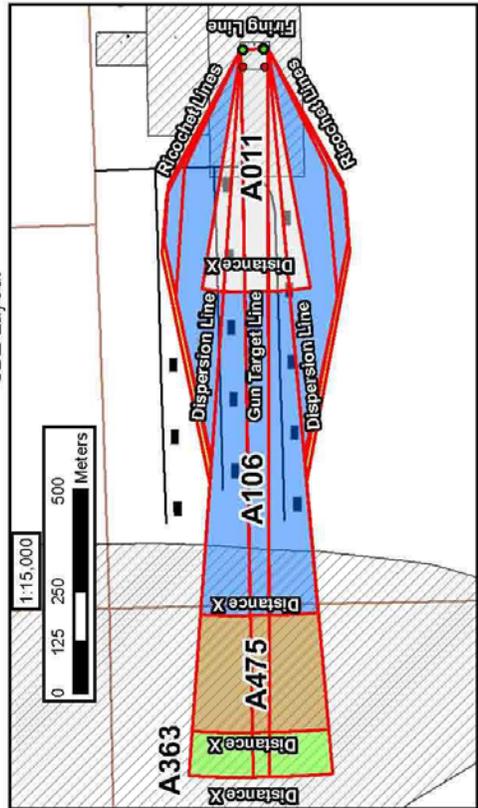
 Projection: UTM Zone 14N
 Datum: NAD 83
 Prepared By: CFMC-PPB
 110204_GTS_H22_PistolQual.mxd



Firing and Target Limits



SDZ Layout



H-22. Competition Pistol and Shotgun Familiarization Range.

FIRING POINTS: 24

AUTHORIZED WEAPONS / DODICs

TOTAL TARGETS: 96

Per Lane: 4

9mm Pistol	A363
M1200 Shotgun	A011
.38 Pistol	A400
.45 Pistol	A475

Target Ranges:

This range has 24 lanes with fixed lumber frames capable of holding 4 silhouette targets, shooting lines are located at 10, 15, 20, 25, 35, and 50 yards in each lane.

a. References:

- (1) FM 3-22.9.
- (2) AR 385-63.
- (3) DA Pam 385-63.

GTS Range Control Channel: 1

Range Admin Channel: None

b. Location: NK6252587764

c. Description and Capacity: This range is used to train and test soldiers on the skills necessary to detect, identify, engage and defeat stationary targets. The range satisfies the training and qualification requirements of the 9mm, 38 caliber, and .45 caliber pistols (Alternate Course Qualification, Law Enforcement, and CMP Excellence in Competition) and M1200 Shotgun Qualification standards. Targets are paper/cardboard and manually scored. Weapons/ammunition authorized for use on this range are 9mm, .45 caliber and 12ga Shotgun. Additional pistol calibers can be fired after SDZ comparison by GTS Range Manager and approval by Installation Commander.

d. Communications: Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is not available on this range, secondary communication can be established by contacting GTS Range Control via cell phone at (402) 326-3027. Firing will not be initiated or will immediately cease when communications with Range Control is not operational. Range cadre must sign for a remote PA system from GTS HQ in support of this range.

e. Safety Precautions:

- (1) GTS Safety Briefing and Range Book provided.
- (2) Shooters required to fire while moving during qualification, RSO, Block Safeties and Tower must ensure shooters remain on-line with one another while negotiating course of fire. All movement on the range will be directed by the tower. RSO will verify all weapons are SAFE and the firing line is clear prior to allowing shooters to depart the range.
- (3) Range flags (day-occupied) and red beacon lights (HOT/firing and at night/limited visibility) will be flown from the Competition pistol flagpole located east of the range tower.
- (4) A medical aid man/medic must be present on the range during the conduct of live firing. Additional medical requirements are:
 - (a) The aid man must be MOS qualified or certified Combat Lifesaver equivalent.
 - (b) The aid man must have a current up-dated standard aid bag and litter on-site.
 - (c) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.
 - (d) A dedicated ambulatory vehicle capable of litter-bearing must be on site with a driver other than the medic.
 - (5) OIC must be a minimum of E7 or above. Range Safety Officer must be minimum of E6 or above with valid OIC/RSO Certification card, and must be on BN CMD designated memo on file with GTS-RC.

f. Special Instructions:

- (1) Range Officer and Range Safety Officer will report to Range Control for a range safety briefing and turn in a risk assessment worksheet (IAW FM 5-19) prior to issue of the range.
- (2) All personnel on the firing line must wear hearing protection, required firing uniform is to be determined by Unit Commander, based on the CRM analysis, unless qualification/validation standards dictate a prescribed uniform.
- (3) Range Cadre are not required to wear Kevlar and field gear.

g. Road Guard Requirements: None.

h. Impact Area closed during firing: See Range Surface Danger Zone.

i. Ranges closed during firing: None.

j. Barriers:

(1) All GTS SDZ Barrier gates must be closed and locked. GTS Range Control must complete a 100% visual inspection and sweep of the Impact Area.

k. Transportation of Ammunition: For transportation of ammunition from the ASP to the range, unit must have inventoried and signed DA Form 581 and transport ammunition IAW established requirements. Ammunition and weapons will not be transported in the same vehicle.

25-Meter Shotgun Firing Range (Shotgun Qualification Range)

a. References:

- (1) STP 19-95C1-SM
- (2) AR 385-63.
- (3) DA Pam 385-63.
- (4) Specific TM and FM for the weapon being utilized.

b. Location: H-20 CP/MPQC Range.

c. Description and Capacity: This range is used to train individual soldiers on the skills necessary to align the sights and practice basic marksmanship techniques against stationary targets. The range is designed for training qualification standards and qualifying with the Military Shotgun. This range has 24 firing points (with barricades). Targets are mounted on fixed frames that are stationary, shooters are able to engage from 10, 15, 20, 25, 35, and 50 yards in each lane.

THIS COURSE OF FIRE CAN ALSO BE FIRED ON H-20 CP/MPQC RANGE.

d. Communications: SAME AS ABOVE.

e. Safety Precautions:

- (1) Target frame height will not exceed 60 inches from the ground for each firing point being utilized

f. Special Instructions: SAME AS ABOVE.

g. Road Guard Requirements: None.

h. Impact Area closed during firing: See Range Surface Danger Zone.

i. Ranges closed during firing: None.

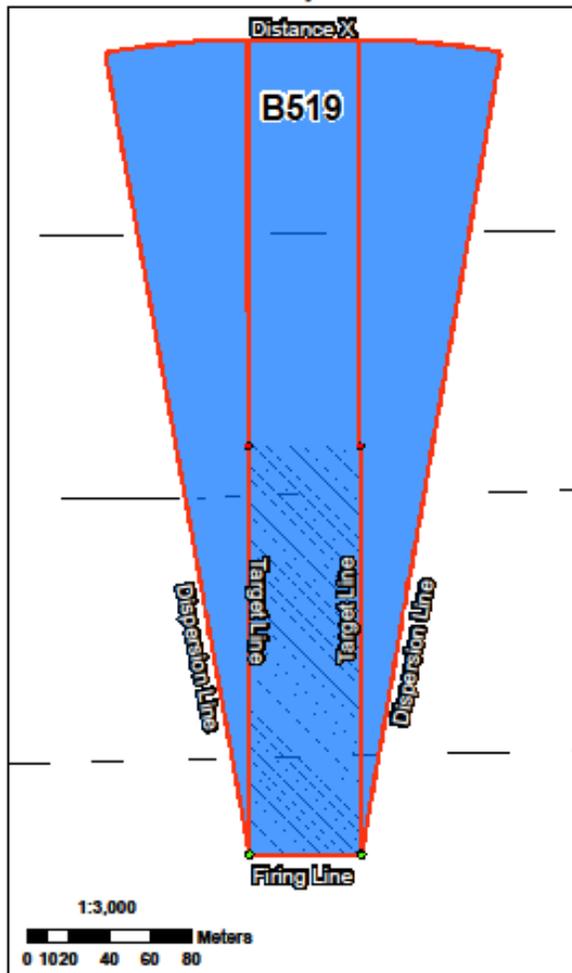
j. Barriers: SAME AS ABOVE

k. Transportation of Ammunition: SAME AS ABOVE

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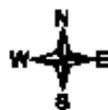
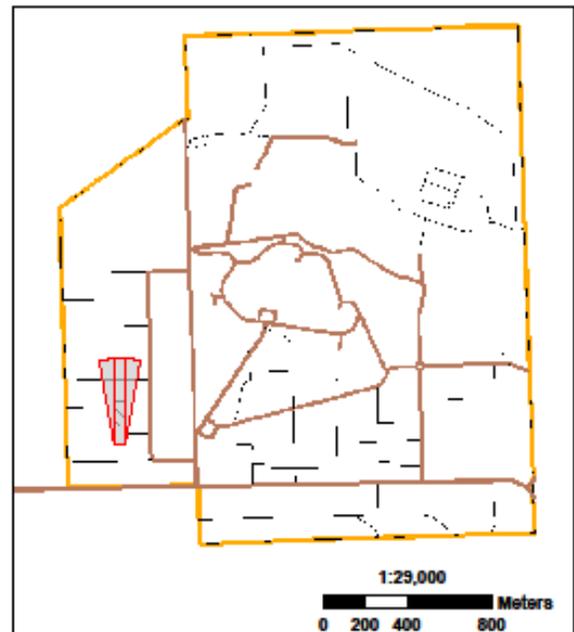
Camp Ashland Training Site - Mead (CATS-M) Surface Danger Zone - Grenade Launcher Range - M1

SDZ Layout



The Surface Danger Zone (SDZ) was prepared using the SDZ Generator, a tool included with the Range Manager's Toolkit (RMTK) extension for ArcView 9.3.1. The specifications are as follows:

- Calibre - 40 mm Grenade (M203)
- Ammunition - 40 mm TP M781 SNGL RD
- DODIC - B519
- Lane - 8
- Target Media - All (Worst Case Scenario)
- Target Type - Ground, Stationary
- SDZ Type: Cone

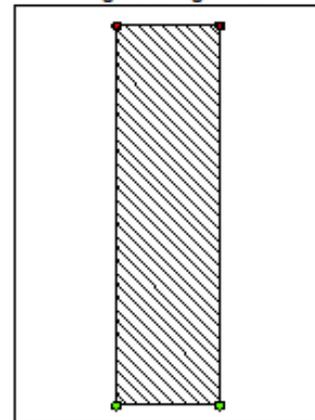


- Installation Boundary
- Range Footprints
- Target Limits
- Firing Limits



Projection: UTM Zone 14N
Datum: WGS 84
Prepared By: CFMO-PPB
110325_MTS_Grenade_Launcher.mxd

Firing and Target Limits



M-1. M-203/320 40mm Grenade Launcher Range

FIRING POINTS: 8

AUTHORIZED WEAPONS / DODICs

M-203/320 Grenade Launcher B519 (M781 TP)

TOTAL TARGETS: 14

Per Lane: Each lane is 30m wide and 400m long.

a. References:

- (1) FM 3-23.31
- (2) AR 385-63.
- (3) DA Pam 385-63.

GTS Range Control Channel: 1

Range Admin Channel: None

b. Location: CAT-M.

c. Description and Capacity: This range is used to train and test individual soldiers on the skills necessary to engage and defeat stationary target emplacements with the M79/203/320 40mm Grenade Launcher. Range consists of 4 firing points. This range features 2 “zero” targets, both are marked with a white “Z” and located 200 meters from the firing line. This range is restricted to training practice ammunition (TP) only. Weapons/ammunition authorized for use on this range is 40mm TP only.

d. Communications: Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is not available on this range, secondary communication can be established by contacting CATS Range

. Firing will not be initiated or will immediately cease when communications with Range Control is not operational. Range Cadre must sign for remote PA speakers from CATS-HQ for control of personnel movement and issuing range commands.

e. Safety Precautions:

- (1) CATS Safety Briefing and Range Book provided.
- (2) Soldiers will not fire at any target within 100 meters.
- (3) HIGH EXPLOSIVE AMMUNITION IS RESTRICTED FROM USE ON THIS RANGE. ONLY TRAINING PRACTICE (TP) AMMUNITION WILL BE UTILIZED. DUD Ammunition and rounds that have failed to operate correctly will be left in place per mis-fire procedures outlined in FM 3-23.31.

- (a) Announce a misfire and keep the weapon pointed at the target.
- (b) Wait 30 seconds and clear the area before trying to unload the weapon.
- (c) Use extreme caution during unloading.
- (d) Determine whether the primer is dented (round is at fault) or not (firing mechanism is at fault).
- (e) Remove round from firing line and place under sand bag until un-expended ammunition and dunnage is returned to ASP.

(4) All movement on the range will be directed by the OIC. RSO will verify all weapons are SAFE and the firing line is clear prior to allowing shooters to move to the firing line or depart the range. Empty chamber indicators are available for issue from CATS-HQ.

(5) Range flags (day-occupied) and red beacon lights (HOT/firing and at night/limited visibility) will be flown from the M203/320 range flagpole located east of the range tower.

(6) A medical aid man/medic must be present on the range during the conduct of live firing. Additional medical requirements are:

- (a) The aid man must be MOS qualified or certified Combat Lifesaver equivalent.
- (b) The aid man must have a current up-dated standard aid bag and litter on-site.
- (c) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.

(d) A dedicated ambulatory vehicle capable of litter-bearing must be on site with a driver other than the medic.

(7) OIC must be a minimum of **E7** or above. Range Safety Officer must be minimum of E6 or above with valid OIC/RSO Certification card, and must be on BN CMD designated memo on file with CATS-RC.

f. Special Instructions:

(1) All personnel on the firing line, 5 meters to each side, and within 5 meters to the rear of the firing line will wear helmets and approved single hearing protection.

(2) OIC/RSO will ensure only low-velocity training practice (TP) grenade cartridges are fired from M203 and M320 grenade launchers.

g. **Road Guard Requirements:** None.

h. **Impact Area closed during firing:** See Range Surface Danger Zone.

i. **Ranges closed during firing:** None.

j. **Barriers:**

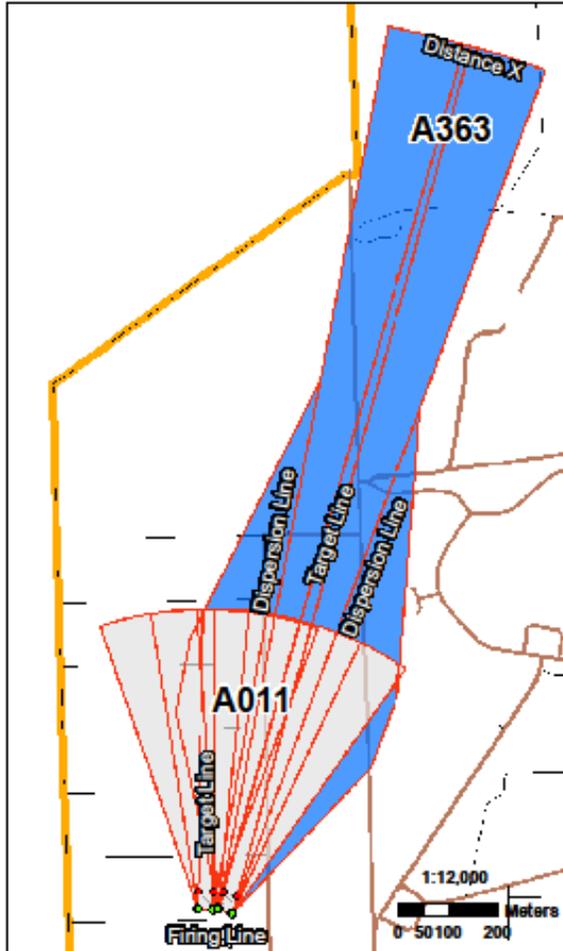
(1) All CATS SDZ Barrier gates must be closed and locked. CATS Range Control must complete a 100% visual inspection and sweep of the Impact Area.

k. **Transportation of Ammunition:** For transportation of ammunition from the AHA to the range, unit must have inventoried and signed DA Form 581 and transport ammunition IAW established requirements. Ammunition and weapons will not be transported in the same vehicle. Dud ammunition must be kept separate from live ammunition during transport.

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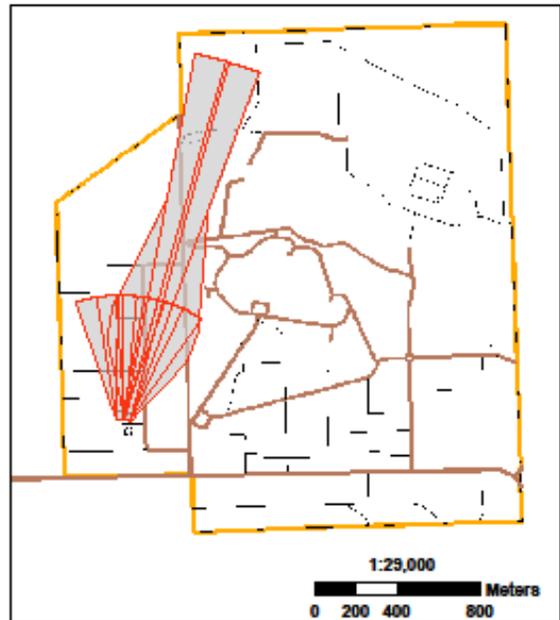
Camp Ashland Training Site - Mead (CATS-M)
Surface Danger Zone - Combat Pistol/Military Police Qualification Course (CP/MPQC)

SDZ Layout



The Surface Danger Zone (SDZ) was prepared using the SDZ Generator, a tool included with the Range Manager's Toolkit (RMTK) extension for ArcView 9.3.1. The specifications are as follows:

- Calibre - 12 gauge Shotgun/9mm
- Ammunition - 12 gauge Buckshot, 9mm ball XMM882
- DODIC - A011, A363
- Lanes - 6 + 6
- Target Media - Earth
- Target Type - Ground, Stationary
- SDZ Type: Batwing (9mm) and Cone

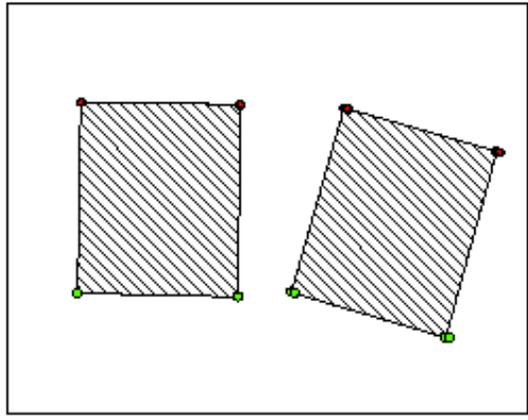


- Installation Boundary
- Shotgun/9mm
- Target Limits
- Firing Limits



Projection: UTM Zone 14N
 Datum: WGS 84
 Prepared By: CFMO-PPB
 11025_MTS_H2_CPMPCQ.mxd

Firing and Target Limits



M-2. Combat Pistol/Military Police Qualification Course (CP/MPQC) and Shotgun Familiarization Range. (When Completed)

FIRING POINTS: 5

AUTHORIZED WEAPONS / DODICs

TOTAL TARGETS: 35

Per Lane: 7

9mm Pistol A363

M1200 Shotgun A011

Target Ranges:

This range has 6 lanes with seven pop-up silhouette targets located at 10, 13, 16, 17, 23, 27 and 31 meters in each lane.

a. References:

- (1) FM 3-22.9.
- (2) AR 385-63.
- (3) DA Pam 385-63.

b. Location: CATS-M

c. Description and Capacity: This range is used to train and test soldiers on the skills necessary to detect, identify, engage and defeat stationary targets in a tactical array. The complex satisfies the training and qualification requirements of the 9mm, .38 caliber, and .45 caliber pistols and M1200 Shotgun. Targets are electrically activated and scored from the range control tower. Weapons/ammunition authorized for use on this range are pistol .22 caliber, .9mm, .38 caliber, .45 caliber and 12ga Shotgun.

d. Communications: Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is available on this range, secondary communication can be established by contacting CATS Range Control.

Firing will not be initiated or will immediately cease when communications with Range Control is not operational. Range is also equipped with a Public address system in the range tower for control of personnel movement and issuing range commands.

e. Safety Precautions:

(1) CATS Safety Briefing and Range Book provided.
(2) Shooters required to fire while moving during qualification, RSO, Block Safeties and Tower must ensure shooters remain on-line with one another while negotiating course of fire. All movement on the range will be directed by the tower. RSO will verify all weapons are SAFE and the firing line is clear prior to allowing shooters to depart the range.

(3) Range flags (day-occupied) and red beacon lights (HOT/firing and at night/limited visibility) will be flown from the CP/MPQC flagpole. CATS-RC will place flag and turn on beacon as part of the Range Sweep. Using unit must report to CATS-RC upon occupying the range.

(4) A medical aid man/medic must be present on the range during the conduct of live firing. Additional medical requirements are:

- (a) The aid man must be MOS qualified or certified Combat Lifesaver equivalent.
- (b) The aid man must have a current up-dated standard aid bag and litter on-site.
- (c) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.
- (d) A dedicated ambulatory vehicle capable of litter-bearing must be on site with a driver other than the medic.

(5) OIC must be a minimum of E7 or above. Range Safety Officer must be minimum of E6 or above with valid OIC/RSO Certification card, and must be on BN CMD designated memo on file with CATS-RC.

f. Special Instructions:

(1) Range Officer and Range Safety Officer will report to Range Control for a range safety briefing and turn in a risk assessment worksheet (IAW FM 5-19) prior to issue of the range.

(2) All personnel on the firing line must wear hearing protection, required firing uniform is to be determined by Unit Commander, based on the CRM analysis, unless qualification/validation standards dictate a prescribed uniform.

(3) Range Cadre are not required to wear Kevlar and field gear.

g. Road Guard Requirements: None.

h. **Impact Area closed during firing:** See Range Surface Danger Zone.

i. **Ranges closed during firing:** None.

j. **Barriers:**

(1) All CATS SDZ Barrier gates must be closed and locked. CATS Range Control must complete a 100% visual inspection and sweep of the Impact Area.

k. **Transportation of Ammunition:** For transportation of ammunition from the AHA to the range, unit must have inventoried and signed DA Form 581 and transport ammunition IAW established requirements. Ammunition and weapons will not be transported in the same vehicle.

25-Meter Shotgun Firing Range (Shotgun Qualification Range)

a. **References:**

(1) STP 19-95C1-SM

(2) AR 385-63.

(3) DA Pam 385-63.

(4) Specific TM and FM for the weapon being utilized.

b. **Location:** M-2 CP/MPQC Range.

c. **Description and Capacity:** This range is used to train individual soldiers on the skills necessary to align the sights and practice basic marksmanship techniques against stationary targets. The range is designed for training qualification standards and qualifying with the Military Shotgun. This range has 6 firing points (with barricades). Targets are mounted on fixed frames that are placed at the 31m target line.

d. **Communications:** SAME AS ABOVE.

e. **Safety Precautions:**

(1) Target frame height will not exceed 60 inches from the ground for each firing point being utilized

f. **Special Instructions:** SAME AS ABOVE.

g. **Road Guard Requirements:** None.

h. **Impact Area closed during firing:** See Range Surface Danger Zone.

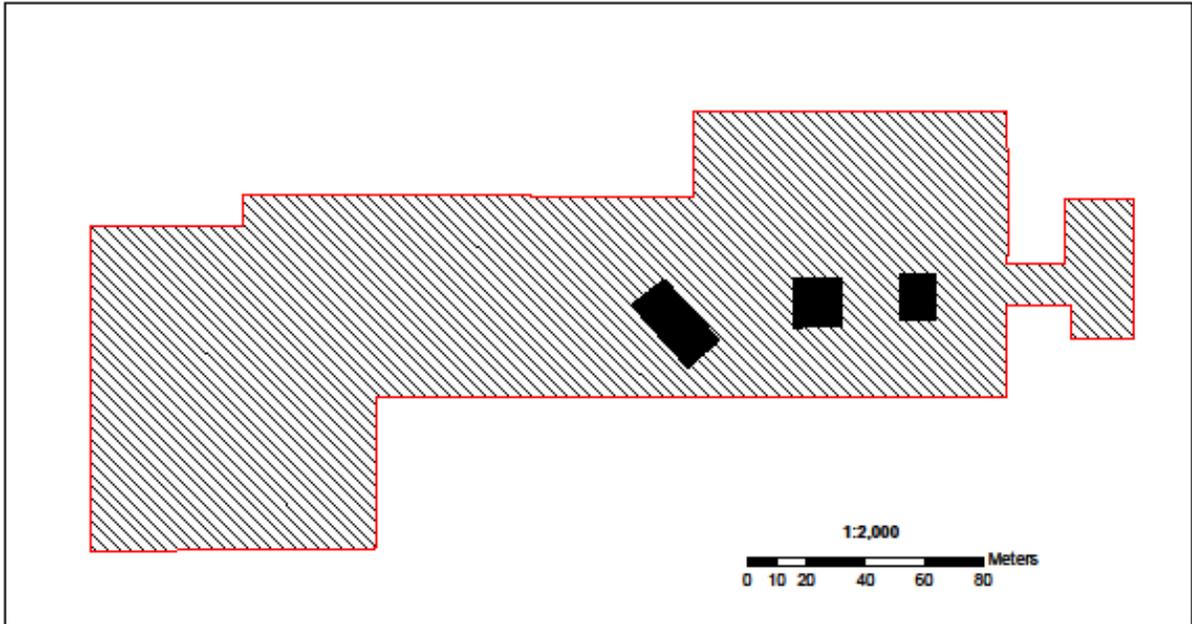
i. **Ranges closed during firing:** None.

j. **Barriers:** SAME AS ABOVE

k. **Transportation of Ammunition:** SAME AS ABOVE

NON-LIVE FIRE RANGES

Greenlief Training Site MOUT Collective Training Facility Urban Assault Course (UAC) - HC1



- Buildings
- MOUT boundary
- Installation Boundary



Projection: UTM Zone 14N
Datum: WGS 84
Prepared By: CFMO-PPB
100629_GTS_MOUT_Bx11.mxd

HC-1. MOUT Collective Training Facility –Urban Assault Course (UAC)

a. References:

- (1) FM 3-06.
- (2) FM 3-06.11.
- (3) TC 90-1.
- (4) AR 385-63.
- (5) DA Pam 385-63.
- (6) DA Pam 385-64.

b. Location: NK6040190595.

c. Description and Capacity: This facility is used to train individual soldiers, squads and platoons on the tasks necessary to operate within a built-up/urban area. Facility consists of five stations IAW TC 90-10.

Weapons/ammunition authorized to fire: With the exception of Station 3, Grenadier Gunnery, the UAC is not intended for live-fire training. Station 3, Grenadier Gunnery Trainer, is designed to support 40mm Target Practice (TP) and 5.56mm ball ammunition. Station 3 is located approximately 800 meters from the other stations (within approved range fans). Specific safety precautions for Station 3 are listed separately (HC-1a)**. Targetry must be coordinated with Range Control (for placement and operation) prior to drawing the range. Weapons/ammunition authorized for use – organic weapons (no live fire)/blanks, MILES, Sim-munitions (CCMCK/UTM), and paintball. Targetry must be coordinated with Range Control (for placement and operation) prior to drawing the training area.

d. **Communications:** Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is not available at this training area, alternate communication can be established by contacting GTS Range Control via cell phone at (402) 326-3027.

(1) For non-live fire training: Units are required to initiate communication checks every hour after receiving a “occupied” time from Range Control. Units are required to have one primary and one secondary form of communication with GTS-RC while training.

(2) For live fire training: See paragraph A-16 (a) below. Firing will not be initiated or will immediately cease when communications with Range Control is not operational.

e. Safety precautions:

(1) GTS Safety briefing and Range Packet . Note, a separate packet is issued to units utilizing Station 3 as a live-fire event.

(2) NO 40mm HE AMMUNITION IS AUTHORIZED FOR USE ON STATION #3 – ONLY TARGET PRACTICE (TP).

(3) Range flags will be flown from;

(a) Non-live fire training: UAC Range flagpole (entrance to MOUT site) flagpole.

(b) Live-fire training: UAC Station #3 Range flagpole (TTB/FOB).

(4) Only Range Control personnel qualified to maintain target mechanisms are authorized to repair or adjust targetry.

(5) A medical aid man/medic must be present on the range/facility during the conduct of live firing/training. Additional medical requirements are:

(a) The aid man must be MOS qualified or certified CLS with aide bag and litter.

(b) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.

(c) A litter-bearing vehicle must be on site with a driver other than the medic and capable of transporting a litter patient.

(6) OIC must be a minimum of E7 or above. Safety Officer must be minimum of E6 or above.

(7) Range OIC will be responsible for preparing/turn in of composite risk management worksheet and Rappel Master Certification (per (FM 100-14), valid for 1 year) if conducting rappel operations. When conducting night land navigational training. CRM must be turned in to range control prior to issue of training area for night training.

f. Special Instructions:

(1) Minimum personnel requirements:

(a) Range OIC, note additional Range OIC and Safety Officer are required when using Station 3. Additional OIC and Safety Officer will be on site at the Grenadier Trainer Range during operations on the site. **

(b) Station OIC/NCOIC (one for each training event/station when conducting live-fire station training). Station #3 is covered in paragraphs (a) and (b) above. **

(c) Certified rappel master/s (when rappelling events are conducted).

(2) HC, CS or CN smoke is not authorized for use on the Urban Assault Course.

(3) The only structure authorized for rooftop movement is the Offense/Defense Building (Station 4).

Movement on all other structure rooftops is prohibited. Movement on Station 4 is permitted under the supervision of OIC/NCOICs. No more than five soldiers are permitted on the roof at any one time.

(4) Climbing and descending the outside walls by use of grappling hooks, rappelling ropers, or free climbing is permitted on the Offense/Defense Building only. Anchor points (located at the structure) will be used. Climbing and descending the outside walls of wooden structures is NOT permitted

(5) The use of pyrotechnic simulators, smoke grenades, or surface flares is prohibited within confined areas or against wooden building. The Range OIC must identify hazard protection and mitigation measures (IAW FM 5-19), and present them to Range Control for approval prior to any pyro-techniques being utilized within the structures/confined areas on the facility

(6) **NO** blank ammunition (above 5.56mm), smoke, or pyrotechniques will be discharged in the underground sewer system. Special munitions (i.e. simmunition) must be approved by Range Control prior to use on the facility.

(7) Rappel master personnel must be physically present on each side of the facility where rappelling is conducted.

(8) Rooftop landings (helicopters) are prohibited on this facility. A designated landing pad is provided at the Southeast corner of the main complex.

g. **Road guard requirement:** None.

h. **Impact Area closed during operation:** None.

i. **Ranges closed during operation:** None.

j. **Barriers:** None.

** Station 3 Live Fire – Pending validation and construction of range.

HC-9. Land Navigation Course

a. **References:**

- (1) FM 3-25.26.
- (2) AR 385-63.
- (3) DA Pam 385-63.

b. **Location:** UV0422149903.

c. **Description and Capacity:** An area used for dismounted map reading, terrain association, or unit sustainment navigational training. Course consists of 12 start points and 1 designated area for pace count.

d. **Communications:** Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is NOT available on this range, secondary communication can be established by contacting GTS Range Control via cell phone at (402) 326-3027. Firing will not be initiated or will immediately cease when communications with Range Control is not operational..

e. **Safety precautions:**

- (1) GTS Safety briefing and Range Packet.
- (2) Range OIC will be responsible for preparing/turn in of risk assessment (FM 100-14) when conducting night land navigational training. Assessment must be turned in to range control prior to issue of training area for night training.
- (3) A medical aid man/medic must be present on the course during the conduct of operations. Additional medical requirements are:
 - (a) The aid man must be MOS qualified or certified CLS.
 - (b) The aid man must have a standard aid bag and litter.
 - (c) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.
 - (d) A litter-bearing vehicle must be on site with a driver other than the medic and capable of transporting a litter patient.

The aid man must have a standard aid bag, litter, and litter-capable vehicle for transport.

- (4) OIC must be a minimum of E6 or above. Safety Officer must be minimum of E5 or above.
- (5) East/West High Power lines will serve as Southern Limit of Training when Impact Area is Closed due to Range Fire.

f. **Special Instructions:**

- (1) Blank ammunition and pyro-techniques (other than emergency) are prohibited on this facility, unless pre-approved by Range Control.
- (2) Using units may require barricades for road entrances to this course. Unit will coordinate this requirement and be responsible for placement/recovery of barricades while utilizing the training area.

g. **Road Guard Requirements:** None.

h. **Impact Area closed during firing:** None.

i. **Range/s closed during training:** UAC Station 3.

j. **Barriers:** None. Units may request/place road barricades to facilitate training objectives ONLY for the duration of the training event.

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AC-1. Land Navigation Course -West

a. **References:**

- (1) FM 3-25.26.
- (2) AR 385-63.
- (3) DA Pam 385-63.

b. **Location:** CATS.

c. **Description and Capacity:** An area used for dismounted map reading, terrain association, or unit sustainment navigational training. Course consists of 14 start points, and 1 designated area for pace count.

d. **Communications:** Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is NOT available on this range, secondary communication can be established by contacting CATS Range Control.

. Firing will not be initiated or will immediately cease when communications with Range Control is not operational.

e. **Safety precautions:**

- (1) CATS Safety briefing and Range Packet.
- (2) Range OIC will be responsible for preparing/turn in of risk assessment (FM 100-14) when conducting night land navigational training. Assessment must be turned in to range control prior to issue of training area for night training.
- (3) A medical aid man/medic must be present on the course during the conduct of operations. Additional medical requirements are:
 - (a) The aid man must be MOS qualified or certified CLS.
 - (b) The aid man must have a standard aid bag and litter.
 - (c) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.
 - (d) A litter-bearing vehicle must be on site with a driver other than the medic and capable of transporting a litter patient.

The aid man must have a standard aid bag, litter, and litter-capable vehicle for transport.

- (4) OIC must be a minimum of E6 or above. Safety Officer must be minimum of E5 or above.

f. **Special Instructions:**

- (1) Blank ammunition and pyro-techniques (other than emergency) are prohibited on this facility.
- (2) Using units may require barricades for road entrances to this course. Unit will coordinate this requirement and be responsible for placement/recovery of barricades while utilizing the training area.

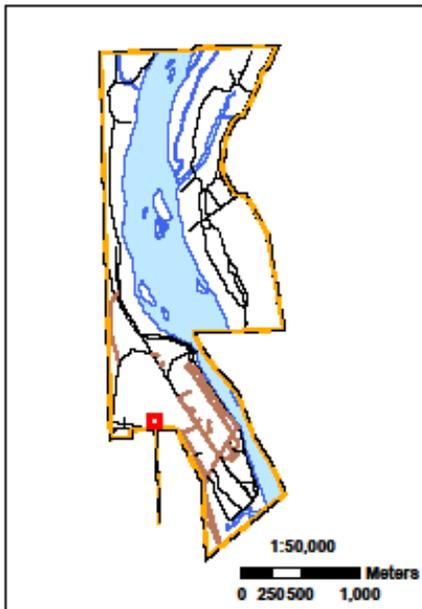
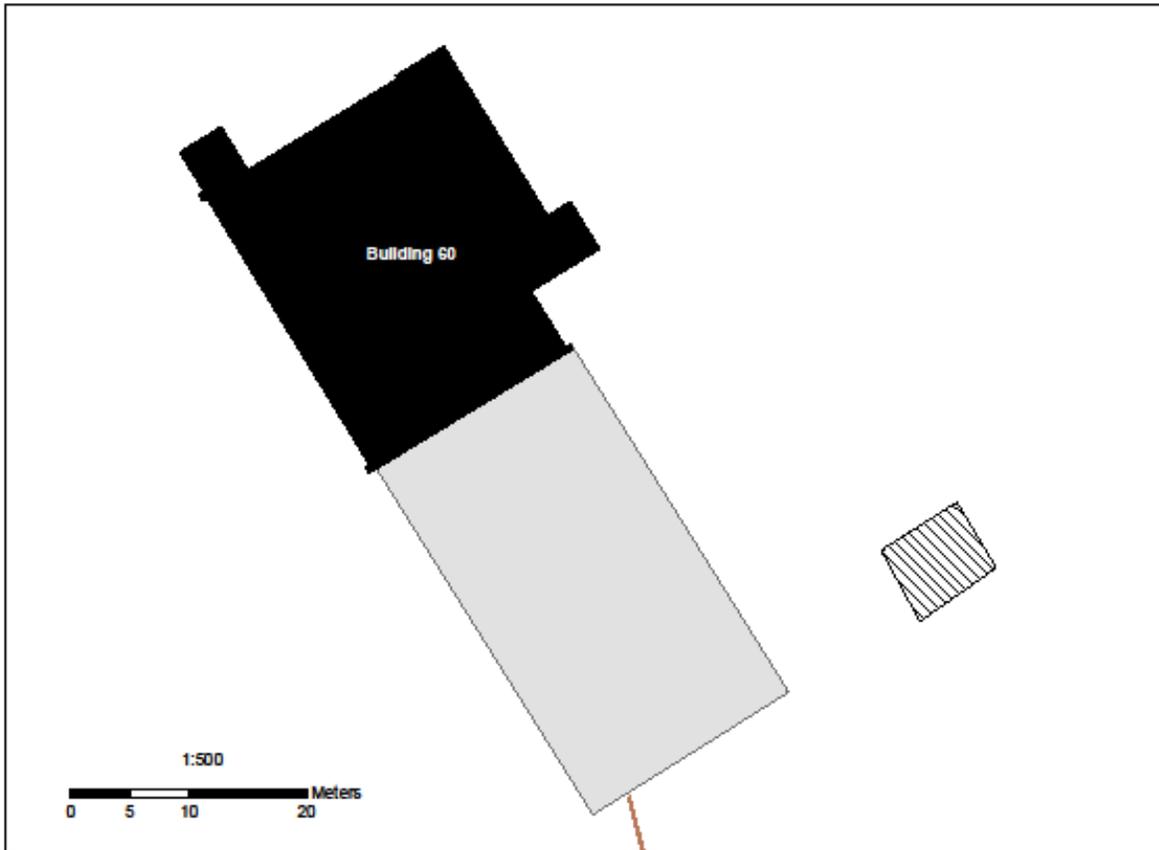
g. **Road Guard Requirements:** None.

h. **Impact Area closed during firing:** None.

i. **Range/s closed during training:** None.

j. **Barriers:** None. Units may request/place road barricades to facilitate training objectives ONLY for the duration of the training event.

Camp Ashland Training Site Rappel Tower (AC2)



-  Installation Boundary
-  Rappel Tower
-  Parking Area
-  Buildings



Projection: UTM Zone 14N
 Datum: WGS 84
 Prepared By: CFMO-PPB
 110325_CATS_AC2_RappelTower.mxd

AC-2. Rappel Towers (Rappel Course)

a. **References:**

- (1) TC 21-24.
- (2) AR 385-63.
- (3) DA Pam 385-63.

b. **Location:** UV0234950250.

c. **Description and Capacity:** 50' Rappel Tower

d. **Communications:** Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is not available on this course, alternate communication can be established by contacting CATS Range Control. Training will not be initiated or will immediately cease when communications with Range Control is not operational. Communications checks are required every hour after occupying the course.

e. **Safety precautions:**

- (1) CATS Safety briefing and Range Packet.
- (2) Range OIC will be responsible for preparing/turn in of risk assessment (FM 100-14) and rappel master certification (Valid for 1 year) when utilizing this facility. Assessment/certification must be turned in to range control prior to issuance of this facility.

(3) **Rappel master must be physically present on EACH side of the tower where rappelling is conducted**

(4) A medical aid man/medic must be present on the facility during the conduct of live training. Additional medical requirements are:

- (a) The aid man must be MOS qualified or certified CLS.
- (b) The aid man must have a standard aid bag and litter.
- (c) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.
- (d) A litter-bearing vehicle must be on site with a driver other than the medic and capable of transporting a litter patient.
- (5) OIC must be a minimum of E7 or above. Safety Officer must be minimum of E6 or above

f. **Special Instructions:**

- (1) Range OIC will ensure all personnel are familiar with the correct safety procedures as listed in TC 21-24.
- (2) Range OIC will be responsible for ensuring required equipment and support personnel (IAW TC 21-24) are on site prior to conducting rappelling operations.

(3) **Australian 'style' rappelling is prohibited on this facility.**

g. **Road Guard Requirements:** None.

h. **Impact Area closed during firing:** None.

i. **Range/s closed during training:** None.

j. **Barriers:** None.

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AC-5. Land Navigation Course -East

a. References:

- (1) FM 3-25.26.
- (2) AR 385-63.
- (3) DA Pam 385-63.

b. Location: CATS.

c. Description and Capacity: An area used for dismounted map reading, terrain association, or unit sustainment navigational training. Contact Training Center Operations and Training section to plan course layout.

d. Communications: Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is NOT available on this range, secondary communication can be established by contacting CATS Range Control. Firing will not be initiated or will immediately cease when communications with Range Control is not operational.

e. Safety precautions:

- (1) CATS Safety briefing and Range Packet.
- (2) Range OIC will be responsible for preparing/turn in of risk assessment (FM 100-14) when conducting night land navigational training. Assessment must be turned in to range control prior to issue of training area for night training.
- (3) A medical aid man/medic must be present on the course during the conduct of operations. Additional medical requirements are:
 - (a) The aid man must be MOS qualified or certified CLS.
 - (b) The aid man must have a standard aid bag and litter.
 - (c) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.
 - (d) A litter-bearing vehicle must be on site with a driver other than the medic and capable of transporting a litter patient.

The aid man must have a standard aid bag, litter, and litter-capable vehicle for transport.

- (4) OIC must be a minimum of E6 or above. Safety Officer must be minimum of E5 or above.

f. Special Instructions:

- (1) Blank ammunition and pyro-techniques (other than emergency) are prohibited on this facility, unless pre-approved by Range Control.
- (2) Using units may require barricades for road entrances to this course. Unit will coordinate this requirement and be responsible for placement/recovery of barricades while utilizing the training area.

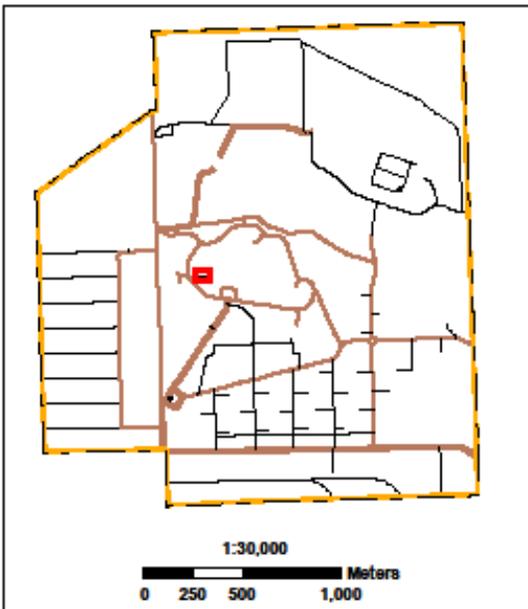
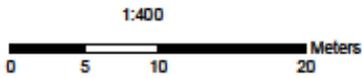
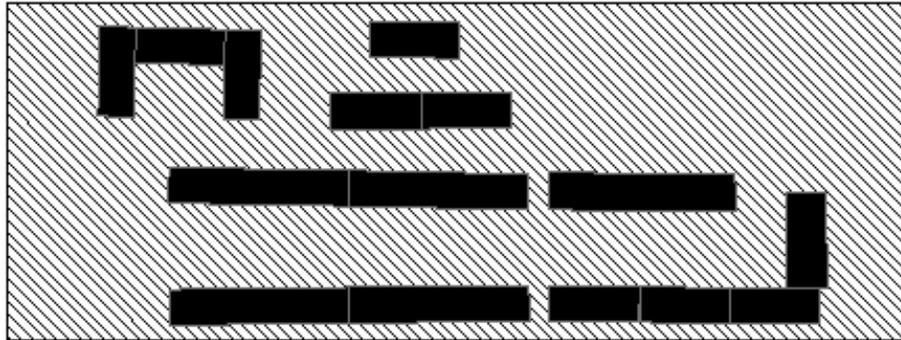
g. Road Guard Requirements: None.

h. Impact Area closed during firing: None.

i. Range/s closed during training: None.

j. Barriers: None. Units may request/place road barricades to facilitate training objectives ONLY for the duration of the training event

**Camp Ashland Training Site - Mead (CATS-M)
MOUT Collective Training Facility - Combat in Cities (CIC) Course (MC6)**



-  Installation Boundary
-  Buildings
-  Range Area
-  Parking Area



Projection: UTM Zone 14N
 Datum: WGS 84
 Prepared By: CFMO-PPB
 110325_CATS_AC2_RappelTower.mxd

MC-6. MOUT Collective Training Facility – Combat In Cities (CIC) Course

a. References:

- (1) FM 3-06.
- (2) FM 3-06.11.
- (3) TC 90-1.
- (4) AR 385-63.
- (5) DA Pam 385-63.
- (6) DA Pam 385-64.

b. Location: CATS-M.

c. Description and Capacity: This facility teaches the skills and unit cohesiveness necessary to conduct clearing, breaching, offensive and defensive operations in an urban setting. Weapons/ammunition authorized for use – organic weapons (no live fire)/blanks, MILES, Sim-munitions (CCMCK/UTM), and paintball. Targetry must be coordinated with Range Control (for placement and operation) prior to drawing the training area.

d. **Communications:** Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is NOT available on this range, secondary communication can be established by contacting CATS Range Control. Firing will not be initiated or will immediately cease when communications with Range Control is not operational.

e. Safety precautions:

- (1) CATS Safety briefing and Range Packet.
- (2) Range flags will be flown from flagpoles located at entrance to CIC course.
- (3) Only Range Control personnel qualified to maintain target mechanisms are authorized to repair or adjust targetry.

(4) A medical aid man/medic must be present on the facility during the conduct of live firing/training.

Additional medical requirements are:

- (a) The aid man must be MOS qualified or certified CLS.
- (b) The aid man must have a standard aid bag and litter.
- (c) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.
- (d) A litter-bearing vehicle must be on site with a driver other than the medic and capable of transporting a litter patient.
- (5) OIC must be a minimum of E7 or above. Safety Officer must be minimum of E6 or above.

f. Special Instructions:

(1) The use of pyrotechnic simulators, smoke grenades, or surface flares is prohibited within confined areas or against wooden buildings. The Range OIC must identify hazard protection and mitigation measures (IAW FM 5-19), and present them to Range Control for approval prior to any pyrotechniques being utilized within the structures/confined areas on the facility.

(2) Climbing and descending the outside walls by use of grappling hooks, rappelling ropers, or free climbing is NOT permitted.

(3) No soldiers are permitted on any metal/wooden roof.

(4) Rooftop landings (helicopters) are prohibited on this facility. A designated landing pad is provided at the Southeast corner of the main complex.

g. **Road guard requirement:** None.

h. **Impact Area closed during operation:** None.

i. **Ranges closed during operation:** None.

j. **Barriers:** None.

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MC-8. Land Navigation Course -Mead

a. **References:**

- (1) FM 3-25.26.
- (2) AR 385-63.
- (3) DA Pam 385-63.

b. **Location:** CATS-M.

c. **Description and Capacity:** An area used for dismounted map reading, terrain association, or unit sustainment navigational training. Course consists of 14 start points, and 1 designated area for pace count.

d. **Communications:** Using unit will establish communications with Range Control using organic RC Radios Channel 1 (Aircraft FM Freq: 123.075 ALT / 123.45) prior to firing. A land line telephone is NOT available on this range, secondary communication can be established by contacting CATS Range Control. Firing will not be initiated or will immediately cease when communications with Range Control is not operational.

e. **Safety precautions:**

- (1) CATS Safety briefing and Range Packet.
- (2) Range OIC will be responsible for preparing/turn in of risk assessment (FM 100-14) when conducting night land navigational training. Assessment must be turned in to range control prior to issue of training area for night training.
- (3) A medical aid man/medic must be present on the course during the conduct of operations. Additional medical requirements are:
 - (a) The aid man must be MOS qualified or certified CLS.
 - (b) The aid man must have a standard aid bag and litter.
 - (c) Unit commanders or representatives must be prepared to give the rank, name, and SSN of all medical qualified personnel.
 - (d) A litter-bearing vehicle must be on site with a driver other than the medic and capable of transporting a litter patient.

The aid man must have a standard aid bag, litter, and litter-capable vehicle for transport.

- (4) OIC must be a minimum of E6 or above. Safety Officer must be minimum of E5 or above.

f. **Special Instructions:**

- (1) Blank ammunition and pyro-techniques (other than emergency) are prohibited on this facility, unless pre-approved by Range Control.
- (2) Using units may require barricades for road entrances to this course. Unit will coordinate this requirement and be responsible for placement/recovery of barricades while utilizing the training area.

g. **Road Guard Requirements:** None.

h. **Impact Area closed during firing:** None.

i. **Range/s closed during training:** None.

j. **Barriers:** None. Units may request/place road barricades to facilitate training objectives ONLY for the duration of the training event.

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TADSS information and Operator Requirements

T-1. Virtual Convoy Operations Trainer (VCOT)

a. The VCOT provides training for combat convoys under realistic conditions through urban and remote areas. The VCOT trains soldiers to anticipate ambushes and other insurgent actions from all possible directions by allowing the crew to observe, maneuver, and fire their weapons through a full 360 degree environment.

b. Location: GTS Bldg

c. Description and Capacity: The VCOT is comprised of 4 Crew Stations networked with an Instructor Operator Station/ After Action Review Station. Two types of virtual crew stations are utilized. (10 PAX)

(1) Two reconfigurable wheeled crew station with gunner; driver; and commander.

(2) Two multipurpose tabletop crew stations with driver and gunner stations.

d. Special Instructions

(1) Trained Operators are the only personnel allowed to sign for and run the VCOT.

(2) Recommended requests be submitted 2 weeks out through RFMSS when scheduling facilities.

(3) All daily usage must be turned into Range Operations at the end of the training day.

T-2. Operational Driver Station (ODS)

a. The ODS provides training for novice, basic and advanced tactical drivers. System can track number of hour per student and provide a print out of their training with a score sheet for licensing purpose. Weather condition can be set using day, night, rain, snow and fog. Three data bases are included with the system for Afghanistan, Iraq, and Eastern Europe.

b. Location: CATS

c. Description and Capacity: The ODS is comprised of 1 operator and 1 Crew station. System can replicate the M998, M1114, M1151 HMMWV, M915, M939, HET, FMTV, PLS and HEMTT. Hundreds of scenarios are included for drivers training.

d. Special Instructions

(1) Trained Operators are the only personnel allowed to sign for and run the ODS.

(2) Recommended requests be submitted 2 weeks out through RFMSS when scheduling facilities.

(3) All daily usage must be turned into Range Operations at the end of the training day.

T-3. Engagement Skills Trainer (EST)

a. The Engagement Skills Trainer (EST) 2000 provides initial and sustainment marksmanship training, static unit collective gunnery and tactical training, and shoot/don't shoot training. It supports the following three modes of training: marksmanship, squad/fire team collective and judgmental use of force. The EST simulates 9 different small arms weapon systems. All EST 2000 training scenarios are U.S. Army Training and Doctrine Command (TRADOC) validated.

b. Location: GTS / CATS

c. Description and Capacity: The EST has 10 firing positions with different weapon configurations including the M4; M16; M203; M9; M1200; M249; M240; M2; MK19 and the M136 (AT4). The M302 is not currently on hand.

d. Special Instructions

(1) Trained Operators are the only personnel allowed to sign for and run the EST.

(2) Recommended requests be submitted 2 weeks out through RFMSS when scheduling facilities.

(3) All daily usage must be turned into Range Operations at the end of the training day.

T-4. HMMWV Egress Assistance Trainer (HEAT)

- a. The HEAT provides soldiers with the training needed to survive a partial or complete HMMWV rollover.
- b. Location: GTS
- c. Description and Capacity: The HEAT has 5 crew positions replicating a full size HMMWV. The HEAT is hydraulic motor controlled with adjustable speed and full 360 degree turnover capability.
- d. Special Instructions
 - (1) Trained Operators are the only personnel allowed to sign for and run the HEAT.
 - (2) Must have a front and rear operator for safety on soldiers training.
 - (3) Recommended requests be submitted 2 weeks out through RFMSS when scheduling facilities.
 - (4) All daily usage must be turned into Range Operations at the end of the training day.

T-5. Call for Fire Trainer II (CFFT-II)

- a. The Call for Fire Trainer II (CFFT-II) provides familiarization and sustainment training for forward observer fire task to include Artillery, Type II and III Close Air Support (CAS), Naval Gunfire and mortar missions. All CFFT II training scenarios are U.S. Army Training and Doctrine Command (TRADOC) validated. Unit's can tailor scenarios with TASC Fort Riley if coordination has been made 30 days out. System comes with three data bases, Fort Sill, Fort Irwin, and Baghdad. System can also be hooked into the SIPR line (at GTS) and tie into current operational terrain and databases for greater planning enhancement for units deploying.
- b. Location: GTS / CATS
- c. Description and Capacity: The CFFT-II at GTS is a 1:4 system, meaning one operator per four students. GTS has two systems capable of training two units at a time, or up to 8 personnel. The system at CATS is a 1:12 system.
- d. Special Instructions
 - (1) Trained Operators are the only personnel allowed to sign for and run the CFFT-II.
 - (2) Recommended requests be submitted 2 weeks out through RFMSS when scheduling facilities.
 - (3) All daily usage must be turned into Range Operations at the end of the training day.

T-6. BEAMHIT MiniRETS (RETS)

- a. MiniRETS is a scaled RETS / Multiple Record Fire Range (MRF) either 15 or 25 meter distance Range, and Combat Pistol Qualification Course (CPQC) 31 foot for training marksmanship tasks in a controlled environment without the need for live fire. It can simulate the Day, Night, and NBC qualification on the MRF & CPQC.
- b. Location: GTS
- c. Special Instructions
 - (1) Trained Operators are the only personnel allowed to sign for and run the RETS.
 - (2) Recommended requests be submitted 2 weeks out through RFMSS when scheduling facilities.
 - (3) Units may request the use of LMTS through the Operations and Training Branch TASC at GTS

T-7. Laser Collective Combat Advanced Training System (LCCATS)

- a. LCCATS is a portable BEAMHIT training system with "E" and "F" type silhouettes available for use in different training scenarios including convoy; MOUT, and dismounted patrolling.
- b. Units may request the use of LCCATS through the Operations and Training Branch TASC at GTS. Recommended requests be submitted 2 weeks out through RFMSS when scheduling facilities.

T-8. Laser Marksmanship Training System (LMTS)

- a. LMTS is a portable BEAMHIT scaled RETS Range for training marksmanship tasks in a controlled environment without the need for live fire.
- b. The system also includes the Machine Gun Training System which may be used with M240B, M249, and M2 machine guns (utilizing blanks) and barrel mounted lasers.
- c. Units may request the use of LMTS through the Operations and Training Branch TASC at GTS, DVC # 07-132.
- d. Recommended requests be submitted 2 weeks out through RFMSS when scheduling facilities.

T-9. Training Improvised Explosive Devices 2 (IEDES) A - Kit

- a. Includes several different size devices (wireless and manual tripwires booby traps and suicide bombers vest). It is a safe effective system that provides non-pyrotechnic signatures using CO2 and non toxic powder. Works with the CREW 2 system
- b. Units may request the use of TIED II Kits through the Operations and Training Branch TASC at GTS, DVC # 05-114.
- c. Recommended requests be submitted 2 weeks out through RFMSS when scheduling facilities.

T-10. Countermeasure Radio Electronic Warfare- 2 (CREW-2)

- a. Includes several different size devices (wireless and manual tripwires booby traps and suicide bombers vest). It is a safe effective system that provides non-pyrotechnic signatures using CO2 and non toxic powder. Works with the CREW 2 system.
- b. Units may request the use of CREW-2 Kits through the Operations and Training Branch TASC at GTS, DVC # 30-30.
- c. Recommended requests be submitted 2 weeks out through RFMSS when scheduling facilities.

**Appendix B
Personnel Status Report**

B-1. Introduction

This appendix lists the information to be reported by each unit/organization conducting training on NE Training Centers (GTS / CATS). This information should be provided at the daily Range Control coordination meeting at 1500 at GTS and per guidance given at In-brief for CATS and CATS-M.

B-2. Format

The required format is listed below in Table B-1.

Training Center Per Stat Report Yellow 1					
UNIT w/UIC: Current Company on site					7-Oct-09
DATE:					
	OFF	WO	ENL	TOTAL	NOTES
AUTH STRENGTH	4	3	107	114	
ASSIGNED STRENGTH	6	0	88	94	
PRESENT FOR TRAINING	6	0	45	51	
GUEST / VIP VISITING UNIT	1	0	1	1	
TRAINING SITE LOCATIONS	OFF	WO	ENL	TOTAL	NOTES
HC1 MOUT SITE	3	3	45	51	
H6 MPMG RANGE	0	1	82	83	
H20 COMBAT PISTOL	6	2	5	13	
H21 MRF RANGE	0	3	88	91	
TRAINING AREA 3	1	3	52	56	
REMARKS:					
LOD / AGAR	TYPE	STATUS	NAME &	REMARKS	
Broken Leg	AGAR	Complete	SPC Joe Smith	fell into Badger hole while training	
Insect Bite	Medical	In Progress	PVT Jones	Medics looked and evaluated to send to Hospital	
Crushed Hand	AGAR	In Progress	SGT Cornhusker	crushed hand while lifting pallet	
Crushed Finger	AGAR	In Progress	PFC Badluck	got finger crushed by M4 Rifle bolt while loading weapon	

Note: Additional reporting requirements may be required (based on unit training/range/facility use), and will be coordinated with Range Control personnel during unit/organization check in.

Appendix C Barriers

C-1. Introduction

Barriers are used on NE Training Centers (GTS / CATS) to restrict access to specific areas during weapons fire/training operations. Current barriers used on the training center consist of aluminum gates, cable gates, and barricades.

C-2. Responsibilities

Prior to requesting a hot time, unit must contact Range Control, to confirm that the internal range sweep has been completed and will annotate the time of completion on the Range Open/Close Checksheet.

Range Control personnel will conduct a physical sweep of the entire SDZ / Impact Area for vehicles, personnel and any other safety concerns and verify all barrier emplacements are closed and locked prior to approving any unit for a 'hot' range/facility status.

C-3. Additional Barrier Requirements

Using units/organizations will coordinate with Range Control for issue of barricades (if required). Using units/organizations are responsible for placement and recovery of barricades and associated materials.

Appendix D Risk Management

D-1. Introduction

This appendix outlines unit responsibilities in identifying and addressing risk management into their operations on the training center. Risk management is utilized in all aspects of training in accordance with FM 5-19. Using units/organizations should incorporate risk management in all operations. Some specific operations (as identified in this regulation and the range packet) require units/organizations to provide a copy of their risk assessment worksheets, DA Form 7566, prior to the conduct of training/range operations. Some events will require additional documentation along with risk assessment worksheets.

D-2. Responsibilities

a. Range Control, NEARNG Training Centers (GTS/CATS):

(1) Review all risk assessments provided by using units/organizations prior to approving range/facility use.

(2) Review unit/organization risk reduction implementation measures.

(3) Inform G3 Training of CRM reduction measures that remain HIGH or EXTREMELY HIGH after measures to reduce impact are in place. These events must be approved by appropriate authority outlined in FM 5-19 (High – BDE Level CDR, Extremely High – First General Officer in Chain of Command).

b. Unit Commander/Range Officer in Charge (OIC)/ Observer Controller (OC)/Cadre:

(1) Identify and assesses operational hazards (IAW FM 5-19) and develop mitigation measures.

(2) Provides completed CRM to Range Control (as required).

(3) Supervises implementation of risk reduction (mitigation) measures.

(4) Coaches and mentors Unit/Range/Facility leadership in risk identification, reduction measures and implementation of the risk reduction measures.

D-3. Conducting Risk Assessments

Specific guidance for conducting risk assessments is located in FM 5-19. There is additional specific information found in various FMs for specific weapon/ammunition systems (i.e. figure B-3, Appendix B, FM 3-23.30/Grenades and Pyrotechnic Signals depicts a risk assessment for live hand grenade operations). Risk assessments should always be conducted regardless of whether copies of the assessments are provided to Range Control or not.

Appendix E
Range/Training Area opening and closing checklists

E-1. Introduction

This appendix provides using units with the information required prior to opening/closing any range facility. These checklists must be completed by the OIC (Range Officer) or Commander (non-firing). The original document will be returned to Range Control at the completion of the training/live-fire event. A checklist is required for each day that the range/facility is operated. All facilities will require one type of opening and closing checklist:

- a. Range Opening/Closing checklist – required for all ranges when conducting live fire operations.
- b. Non-Live Fire Range Opening/Closing checklist – required when conducting operations other than live firing (training areas or facilities).
- c. Demolitions Range Opening/Closing checklist – required for all demolitions range operations.

GREENLIEF TRAINING SITE
RANGE OPERATIONS
Open and Close Checklist

Date: _____

1. Unit Designation: _____ Unit
Phone: _____

2. Range OIC / NCOIC: _____
Rank: _____
Last four of SSN: _____

3. Range Safety: _____
Rank: _____
Last four of SSN: _____

4. Range Utilized: _____

5. You must report any *key personnel* substitutions to Range Control prior to Range Operations.

RANGE OPENING CHECKLIST:

The below items *must* be completed prior to requesting a *HOT* time from Range Control.

Is the Range Flag UP / Aircraft warning beacon ON ? **YES NO**

Name of Medic on site: _____

Name of RSO/NCOIC: _____

Name of OIC: _____

Names of Fire Support Team: _____

Is the fire fighting equipment on-site? **YES NO**

What time did you issue a safety briefing? _____

Have you established radio communications with Range Control? **YES NO**

Ranges must maintain *continuous* contact with Range Control. Radio checks must be performed *EVERY* hour on the hour.

**Appendix F
Commander's Certification Memorandum**

F-1. Introduction

This appendix provides an example of the required certification memorandum. This document is required prior to issue of any range or training facility to unit/organizational personnel. ONLY certified OICs and Safety Officers will be issued ranges/facilities.

**Figure F-1
Commander's Certification Memorandum**

<i>(Unit Designation/Letterhead)</i>				
<i>Office symbol (MARKS Code)</i>				<i>Date</i>
 <i>MEMORANDUM FOR Commander, Nebraska Training Centers (GTS/CATS), Attn: Range Control, 6700 East "J" Street, Hastings, NE 68901-8435</i>				
 <i>SUBJECT: Certification of Officer in Charge (OIC) / Range Safety Officer (RSO)</i>				
 <i>1. The following personnel assigned or attached to this unit/organization are certified to perform the duties as OIC or RSO of ranges and training facilities at the Nebraska Training Centers (GTS/CATS) and meet the criteria outlined in Chapter 1-6/7, DA Pam 385-63.</i>				
<u>NAME</u>	<u>GRADE</u>	<u>SSN</u>	<u>OIC</u>	<u>RSO</u>
<i>Last, First, Middle Initial</i>	<i>Pay Grade</i>	<i>XXX-XX-XXXX</i>	<i>Yes-all ranges</i>	<i>Yes-all ranges</i>
<i>Last, First, Middle Initial</i>	<i>Pay Grade</i>	<i>XXX-XX-XXXX</i>	<i>Yes-small arms only</i>	<i>Yes-all ranges</i>
 <i>2. These individuals meet the minimum qualification requirements outlined in DA Pam 385-63, chapter 1-6 and NE NGR 385-1 pertaining to range and training facility operations.</i>				
 <i>3. The above personnel understand that they must receive the required range/training area safety briefings prior to issue of any facility/range.</i>				
 <i>///SIGNED/// BN Commander's Signature Block</i>				
 <i>CF: 1-BN S3 1-NEARNG-TC O&T</i>				

SAMPLE

Appendix G
Range OIC/Safety/Medical requirements

G-1. Introduction

This appendix provides the Range OIC, Safety Officer, and medical support requirements by type of range/facility. Additional requirements (by Range or Facility) are listed in Appendix A and the Range Packet.

For ALL NEARNG Live Fire Training grade requirements are:
Officer in Charge (OIC) E7 or above and Range Safety Officer (RSO) E6 or above.

For non-live fire training OIC/RSO requirements are listed in table G-1 (using DA Pam 385-63 guidelines) as stated in Ch 2-25 of this regulation.

Table G-1
Minimum Officer in Charge (OIC), Safety Officer, and Medical Requirements

Weapon System/Facility/Area	Officer in Charge	Safety Officer	Medical Requirement
Small Arms/Machine Gun Ranges	E6	E5	Yes ¹
Practice Hand Grenade/Qualification, Sub-Caliber Training Devices, Laser Devices, Simulators and trip flares	E6	E5	Yes ¹
Chemical Agents and Smokes ^{2,6}	E6	E5	Yes ¹
Live Grenades, Grenade Launchers (TP), Grenade Machine Guns (TP), Demolitions ⁵	E7	E6	Yes ¹
Mortars (SRTR) ³	E6	E6	Yes ¹
Direct fire Anti-Tank rockets, Missiles (TP), and simulators (TP)	E7	E6	Yes ¹
Live Fire Exercises using organic weapons, squad through Platoon.	E7	E6	Yes ¹
Live Fire Exercises using organic weapons, Company Level	Officer/Warrant Officer	E7	Yes ¹
Non-Firing Training Facilities			
Training Areas, Land Navigation Courses	E6	E5	Yes ¹
Other Facilities (MOUT, Obstacle Course ⁴)	E7	E6	Yes ¹

¹Several ranges/facilities have additional/specific medical support requirements. Refer to Appendix A for detailed requirements.

²OIC and RSO must be NBC qualified when conducting NBC or smoke training.

³RSO for USMC units can be E5 when conducting mortar training.

⁴Must have current Rappel Master Certification on file prior to issue of any rappelling tower.

⁵OIC and Safety Officer must have command certification prior to conducting demolition operations.

⁶RSO for USMC units will be E6 or above.

(Civilian Agencies can substitute certain work related job specialties and titles for OIC and RSO rank requirements, OIC and RSO requirements must still be approved through Range Control)

**Appendix H
Civilian Medical Facilities**

H-1. Introduction

- A. The current configuration of the Nebraska Training Centers provides training in three geographical areas.
 - a. Greenlief Training Site located 6 miles east of Hastings Nebraska.
 - b. Camp Ashland located 4 miles northeast of Ashland Nebraska.
 - c. Camp Ashland-Mead located 10 miles north/northwest of CATS.
- B. Each range will have either a combat medic or combat life saver while each firing range or training area is active.
- C. Medical priorities/status will be decided by the onsite medics.
 - a. Case of life or limb medics on site medics will contact Range Control for 911 supports.
 - b. After hours medics on site will contact 911 directly and notify Range Control.
 - c. All other injuries and sick calls will be transported by the medics to the local hospital.
 - d. See map location and phone numbers for local training centers.

H-2. GTS - Greenlief Training Site (Hastings)

Below is the map location and important phone numbers for the medical facilities located near Greenlief Training Site.

Appendix H – Civilian Medical Facilities



+ Mary Lanning Memorial Hospital
715 N. Saint Joseph Ave, Hastings, NE 68901
Phone (402) 463-4521
Fax (402) 000-0000



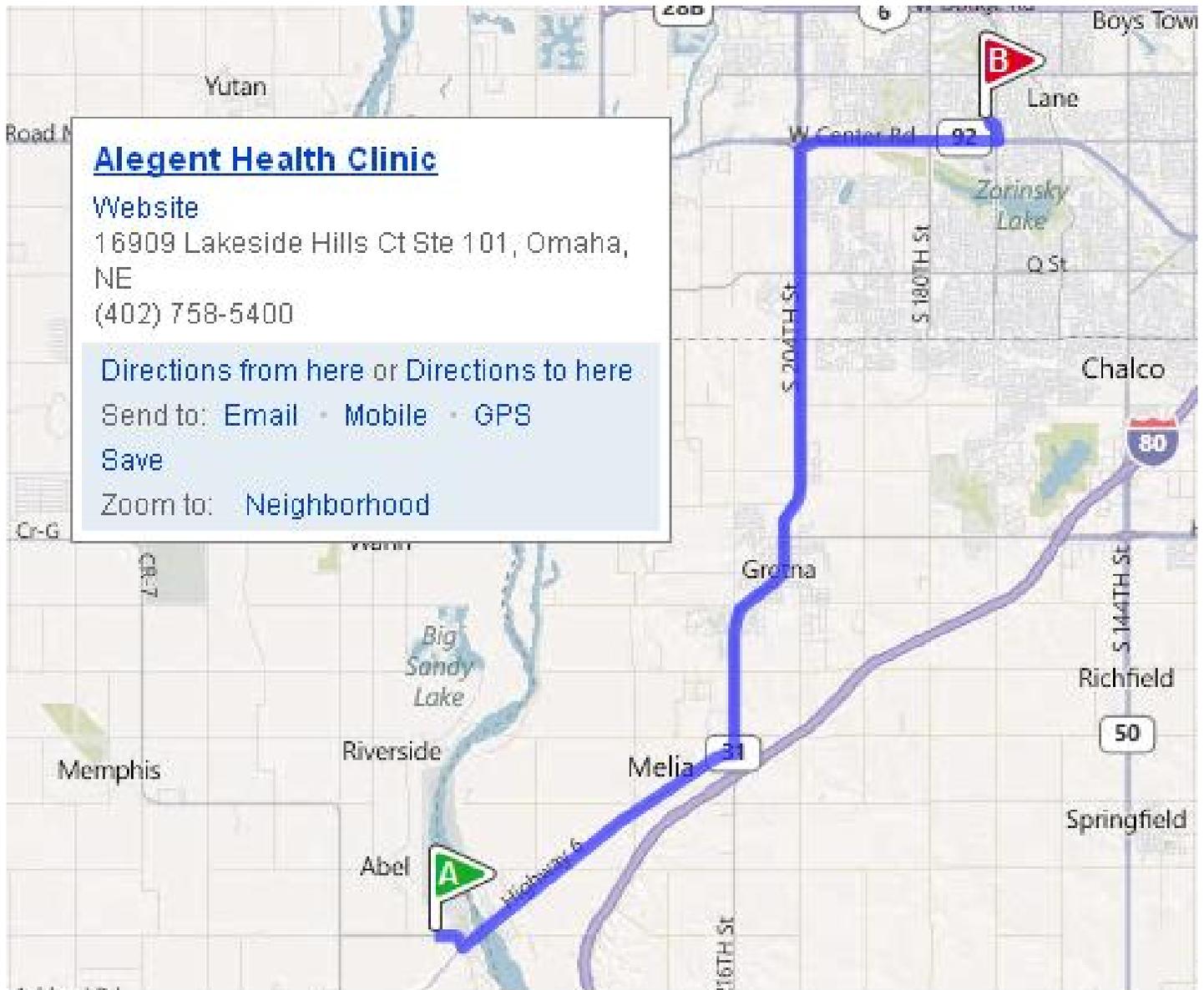
Table H-1

H-3. CATS - Camp Ashland (Ashland)

Camp Ashland Training Site (CATS) is in close proximity to several hospitals, since CATS area M (CATS/M) is a more remote location and is located in a more rural area EMS services can be dispatched from multiple locations when calling 911. Caller must be aware of where they are and must relay accurate information to the 911 operator contacted.

Generally EMS calls for CATS proper will be routed through:

ALEGENT HEALTH
16901 LAKESIDE HILLS COURT
OMAHA, NE 68130-2318.
(402) 758-5400

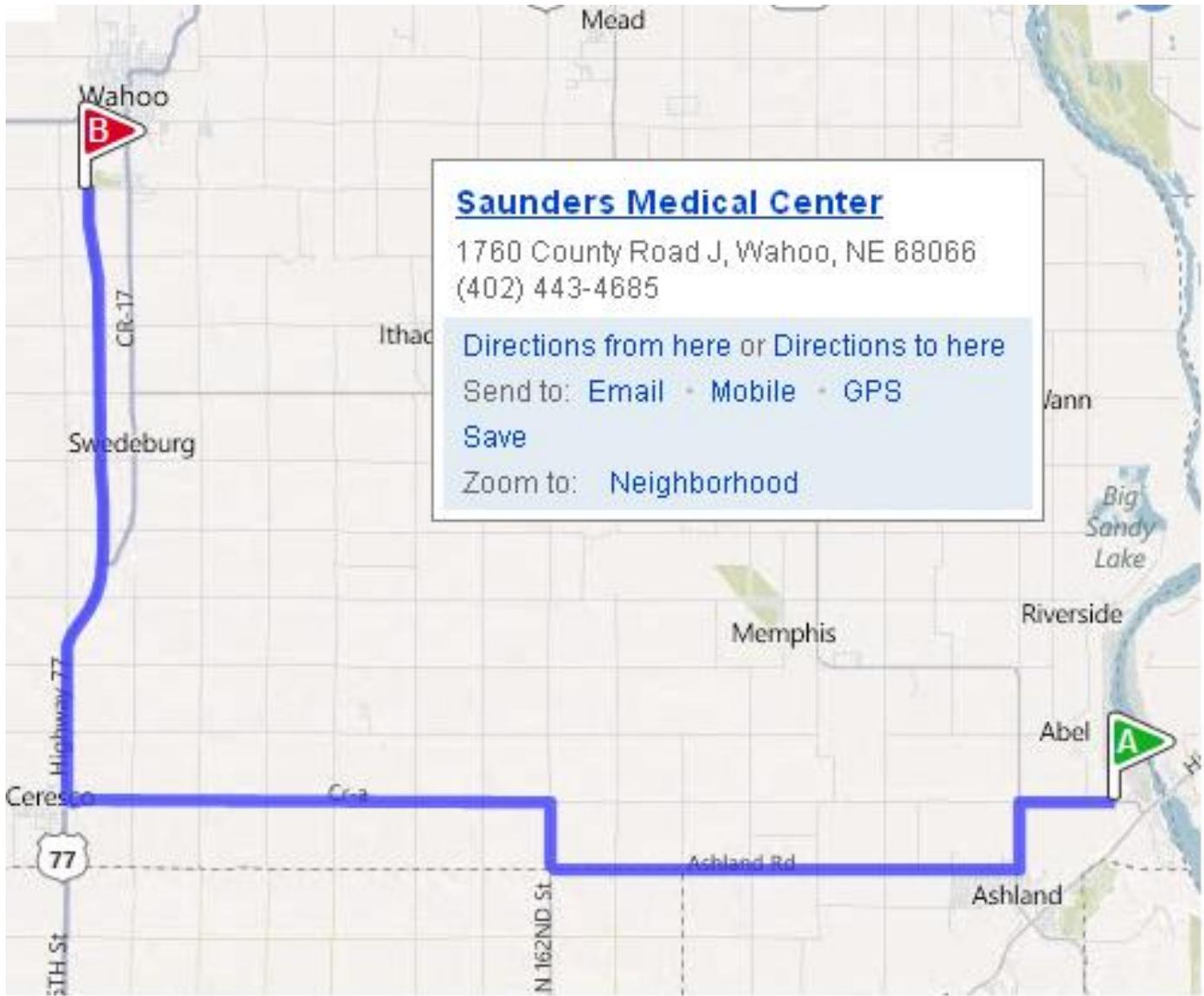


CATS to SAUNDERS MEDICAL CENTER

1760 County Road J

Wahoo, NE 68066

(402) 443-4685



CATS to MIDLANDS HOSPITAL
 11111 So. 84th St
 Papillion, NE 68046
 (402) 593-3000

Midlands Hospital
 Website
 11111 S 84th St, Papillion, NE
 (402) 593-3000
 Directions from here or Directions to here
 Send to: Email · Mobile · GPS
 Save
 Zoom to: Neighborhood

Route: 22.0 mi, 27 min
 33 min in current traffic conditions
 See best route based on traffic

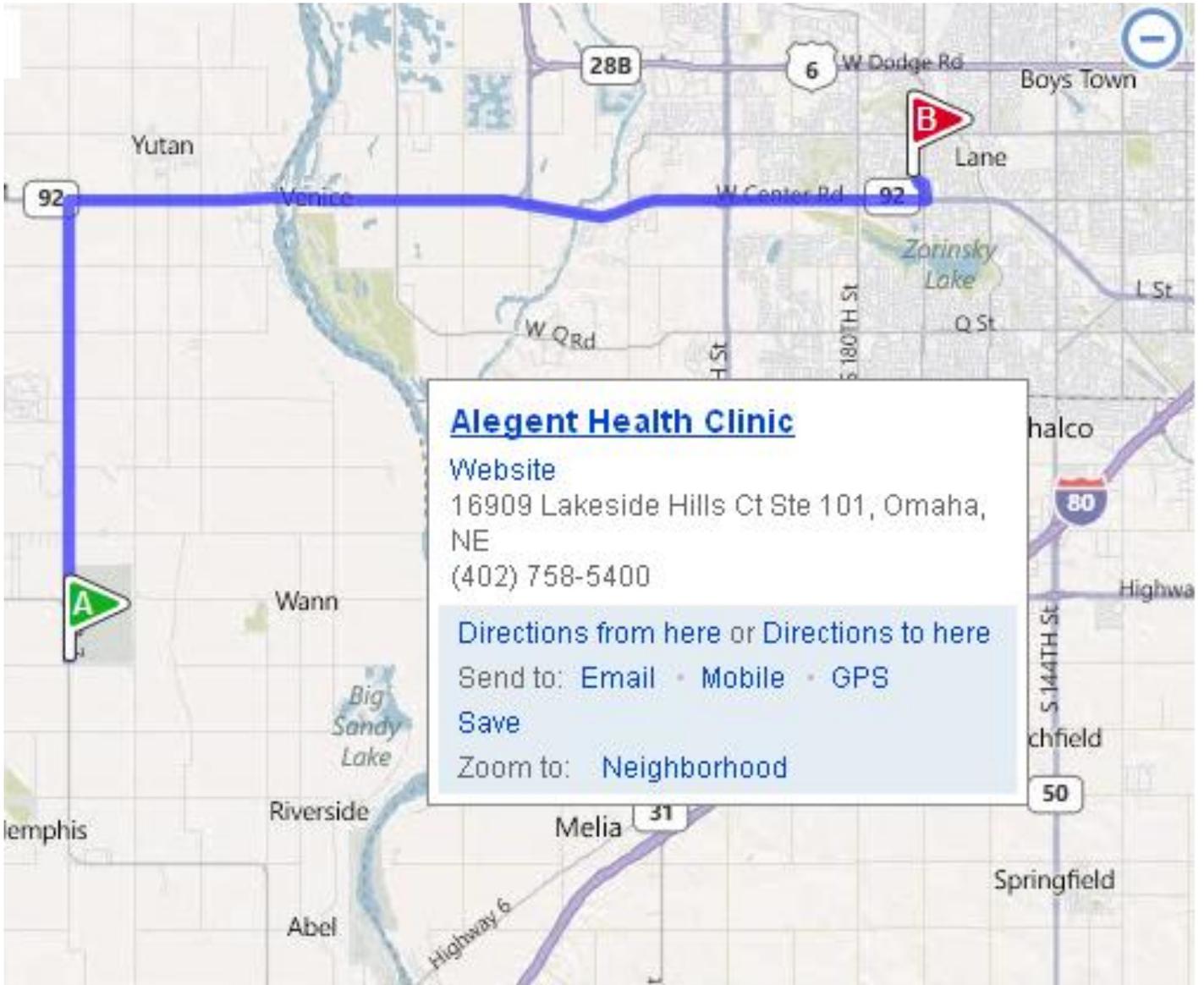
220 Cr-a, Ashland, NE 68003

- 1 Depart Cr-a toward US-6 0.5 mi
- 2 Turn left onto US-6 5.1 mi
- 3 Turn right onto NE-31 South / S 216TH St / S Highway 31 0.4 mi
- 4 Take ramp left for I-80 East 5.8 mi
- 5 At exit 439, take ramp right for NE-370 toward Papillion / Bellevue 0.6 mi
- 6 Turn right onto NE-370 East / Highway 370 6.1 mi
- 7 Turn right onto S Washington St 1.5 mi
- 8 Keep straight onto NE-85 / S 84TH St 1.9 mi
- 9 Keep left to stay on NE-85 / S 84TH St 0.1 mi
- 10 Arrive at 11111 S 84th St, Papillion, NE
The last intersection is Platteview Rd

Midlands Hospital
 11111 S 84th St, Papillion, NE
 (402) 593-3000

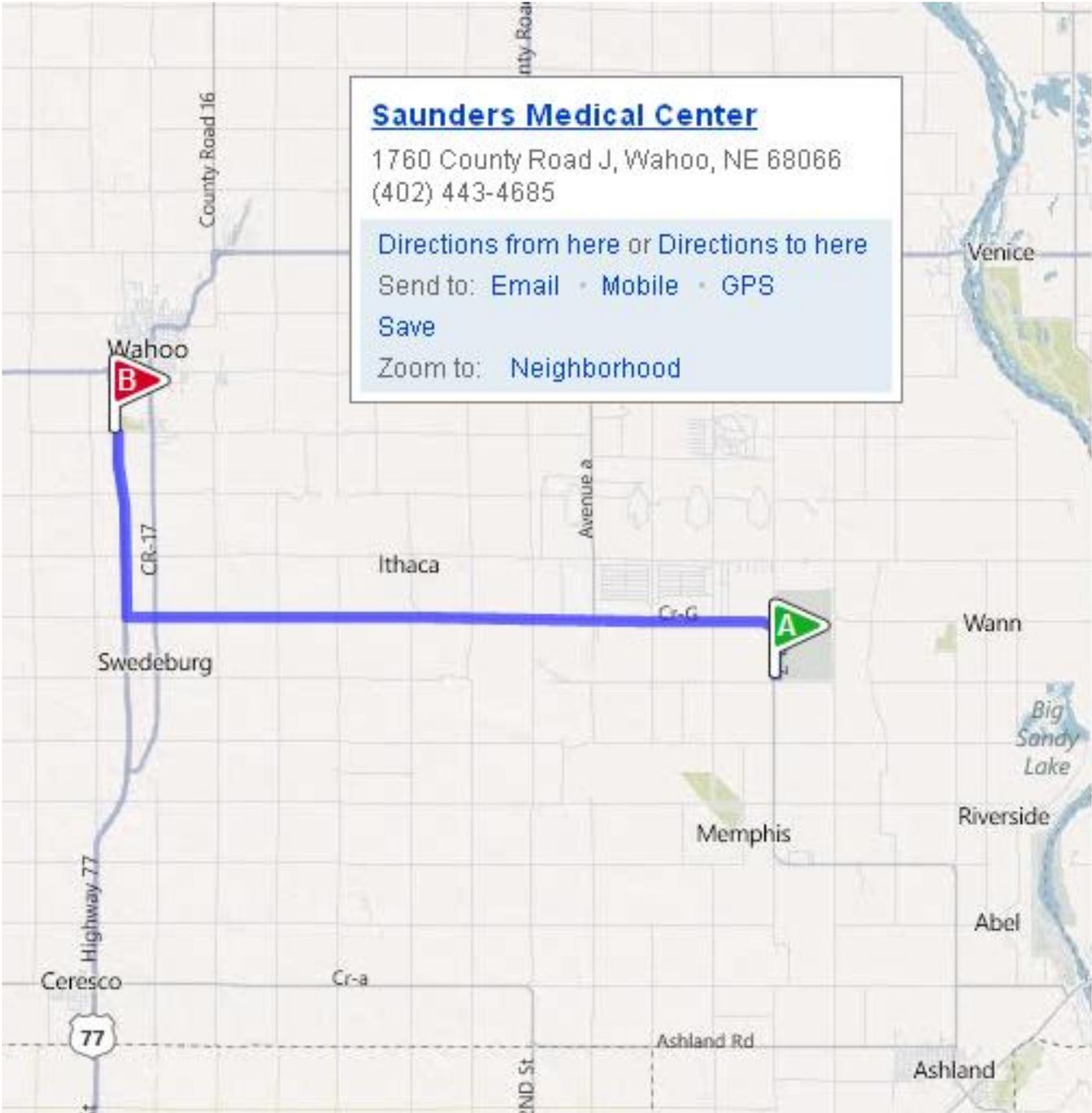
CATS Area M to

ALEGENT HEALTH
16901 LAKESIDE HILLS COURT
OMAHA, NE 68130-2318.
(402) 758-5400



CATS Area M to

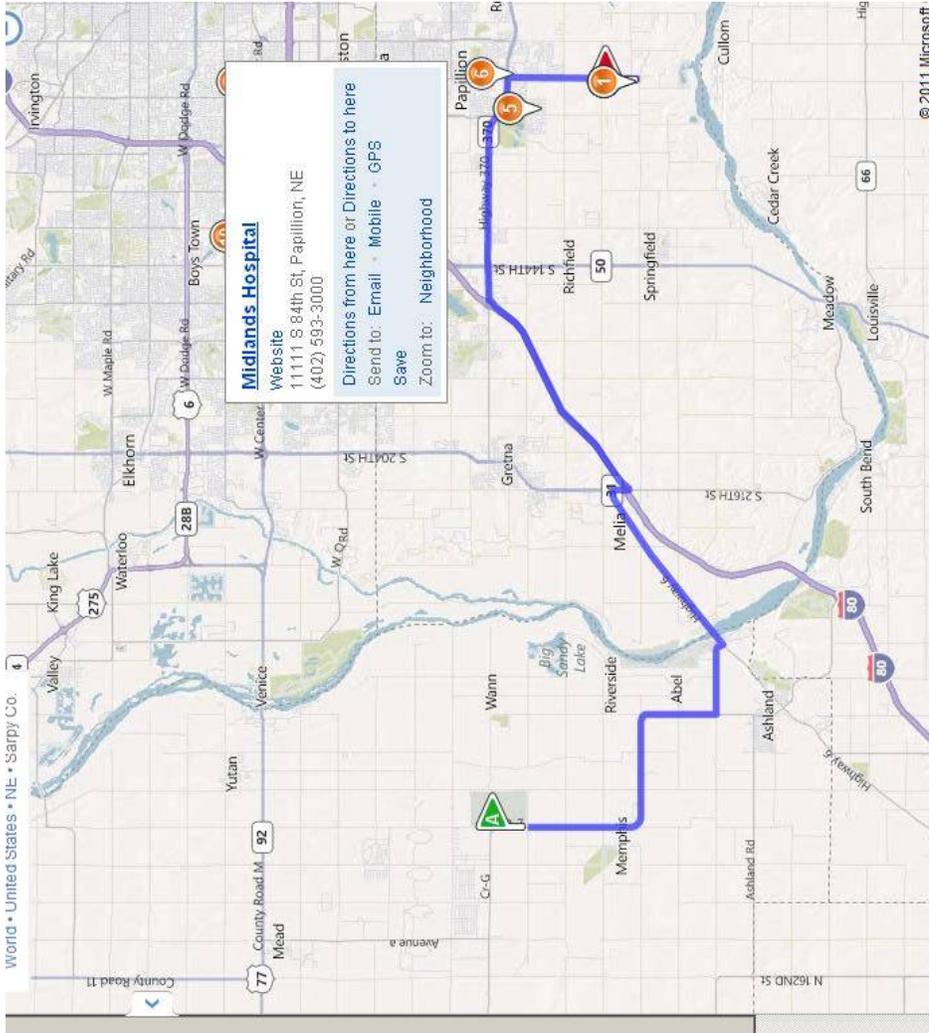
SAUNDERS MEDICAL CENTER
1760 COUNTY ROAD J
WAHOO, NE68066
(402) 443-4685



CATS Area M to

MIDLANDS HOSPITAL

11111 So. 84th St
 Papillion, NE 68046
 (402) 593-3000



- Route: 31.3 mi, 43 min**
 49 min in current traffic conditions
 See best route based on traffic
- 1 Depart NE-66 / County Road 7 / CR-7 toward CR-E 5.8 mi
 - 2 Keep right to stay on NE-66 2.1 mi
 - 3 Turn left onto Cr-a 2.0 mi
 - 4 Turn left onto US-6 5.1 mi
 - 5 Turn right onto NE-31 South / S 216TH St / S Highway 31 0.4 mi
 - 6 Take ramp left for I-80 East 5.8 mi
 - 7 At exit 439, take ramp right for NE-370 toward Papillion / Bellevue 0.6 mi
 - 8 Turn right onto NE-370 East / Highway 370 6.1 mi
 - 9 Turn right onto S Washington St 1.5 mi
 - 10 Keep straight onto NE-85 / S 84TH St 1.9 mi
 - 11 Keep left to stay on NE-85 / S 84TH St 0.1 mi
 - 12 Arrive at 11111 S 84th St, Papillion, NE
 The last intersection is Platview Rd
- Midlands Hospital**
 11111 S 84th St, Papillion, NE
 (402) 593-3000

Collective Live Fire Checklist

Documents Required Prior To Issuing Range

NIT:	EVENT/DATE:	GO/NO-GO
1) Personnel Weapons Qualification Roster (within 6 months of event).		
<input type="checkbox"/> GO	<input type="checkbox"/> NO-GO	
Comments:		
2) OC/Cadre Qualification Roster.		
<input type="checkbox"/> GO	<input type="checkbox"/> NO-GO	
Comments:		
3) Detailed Scenario with sketches/overlays that define the scheme of maneuver and integration of supporting fires.		
<input type="checkbox"/> GO	<input type="checkbox"/> NO-GO	
Comments:		
4) Coordination lines or checkpoints to identify maneuver limits.		
<input type="checkbox"/> GO	<input type="checkbox"/> NO-GO	
Comments:		
5) Limits of fire for each element and/or weapon (SDZ).		
<input type="checkbox"/> GO	<input type="checkbox"/> NO-GO	
Comments:		
6) Mortar/Artillery firing data, safety cards, shift information.		
<input type="checkbox"/> GO	<input type="checkbox"/> NO-GO	
Comments:		
7) Specific controls for firing while moving.		
<input type="checkbox"/> GO	<input type="checkbox"/> NO-GO	
Comments:		
8) Provisions for search, marking, and disposal of duds.		
<input type="checkbox"/> GO	<input type="checkbox"/> NO-GO	
Comments:		
9) Communication and control measures to include air observer if employed.		
<input type="checkbox"/> GO	<input type="checkbox"/> NO-GO	
Comments:		
10) Safety Checklist.		
<input type="checkbox"/> GO	<input type="checkbox"/> NO-GO	
Comments:		
11) Target System Support.		
<input type="checkbox"/> GO	<input type="checkbox"/> NO-GO	
Comments:		
12) Waiver Justifications (if required).		
<input type="checkbox"/> GO	<input type="checkbox"/> NO-GO	
Comments:		
13) Timeline.		
<input type="checkbox"/> GO	<input type="checkbox"/> NO-GO	
Comments:		
14) Risk Assessments.		
<input type="checkbox"/> GO	<input type="checkbox"/> NO-GO	
Comments:		
15) OVERALL COMMENTS:		

Appendix J Training Center Maps

J-1. Introduction

This appendix provides information on the Military Installation Maps (MIMs), each NEARNG Training Center has an approved MIM, additional site specific maps are also available upon request by contacting the NEARNG-CFMO-GIS Section or the Installation Operations and Training Section.

Greenlief Training Site (Fig J-1)

Scale: 1:25000

Version: 001

NRN: V875SGREENLIEFMIM

NSN: 7643-01-583-7846

Date: 2009/12

NAME: FINAL_GreenliefMIM_25K_200912_GEO

Camp Ashland Training Site (Fig J-2)

Scale: 1:25000

Version: 001

NRN: V875S CPASHLAMIM

NSN: 7643-01-579-4950

Date: 2010/08

NAME: FINAL_CPASHLAMIM_25K_201008_GEO

Specific maps and geospatial information is available through the NEARNG-CFMO-GIS Section. For information on Military Information Maps (MIM) Contact the SRP Geospatial Support Center at 804.633.8772 (DSN 578.8772) or email at geospatial_support@conus.army.mil, these maps are available through the military supply system.

**Appendix K
Training Center Phone Numbers**

GTS:

Range Control	402-326-3027	Building 100
Operations Desk	402-309-7887	Building 100
O&T Branch	402-309-7865	Building 100
Bldg Maintenance	402-309-7862	Building 562
Scheduling	402-309-7865	Building 100
TASC/TADSS	402-309-7886	Building 100
Billeting	402-309-7865	Building 100
DFAC COR	402-416-2585	Building 100

CATS:

Range Control	402-326-2349	Building 55
Operations Desk	402-309-7618	Building 55
O&T Branch	402-309-7606	Building 55
Bldg Maintenance	402-309-7606	Building 22
Scheduling	402-309-7605	Building 55
Supply	402-309-7273	Building 55
Billeting	402-309-7616	Building 508
DFAC COR	402-309-7646	Building 70