

RANGE 9

SOP

RANGE DESCRIPTION:

-Range 9 is an active multipurpose machinegun, rocket, and indirect fire range with a maximum target distance of 1700 meters located at grid 18STH7776671266 and is available 362 days per year.

Primary Use: Live fire of medium/heavy machine guns, grenade launchers, rockets, missiles, and mortars.

Alternate Uses:

- sUAS, Armed sUAS, and limited Counter sUAS (CsUAS) events. See Paragraph (G) below.
- Forward Arming and Refueling Point (FARP) and hung ordnance operations. See Paragraph (H.25) below.
- Long range precision marksmanship engagements. (Use of DODIC A606 is prohibited)
- Observation of artillery fire from GP-45 and GP Tokyo.

NOTES:

-Javelin and TOW use is conducted under a Deviation and requires special coordination with Range Control and MCBQ EOD no less than 30 days prior. The single target authorized for the Javelin must be warmed by coals to ensure the CLU obtains positive lock on the target. See paragraph H.15, Figure 9, Figure 13/13A.

- Range 9 fires into the TA-9A High Hazard Impact area, a known Unexploded Ordnance (UXO) area and is off-limits to all personnel unless coordinated with Range Control and escorted by MCBQ EOD.
- OIC/RSO will need the keys to the Range 9A and Range 9B gates to access and control entry to this range.
- OIC/RSO may need additional keys to MCB-3F and MCB-6D based on DODIC fired and related conflicts.
- OIC/RSO will ensure all associated gates are Closed/Locked or Closed/Manned when live fire is in progress.
- The MCB-6D key will not be issued or surrendered upon request if MCB-6 is closed by Range 10, 10A, or 11.
- OIC/RSO may request the key to the tower to use the enclosed observation deck. Access to the roof is open.
- Range 9 does not have water or power.
- Range 9 has two (2) Porta-johns.
- OIC/RSO will use the Post-Inspection Checklist to conduct an initial walk-through when occupying and report any obvious damage or discrepancies to Range control prior to going hot.
- Use of any sUAS requires RFMSS request, approval, and activation of applicable ROZ. Figure-11.
- sUAS use requires preapproved frequency assignment from Range Control or Spectrum Manager approval.**
- Frequency deconfliction is the responsibility of the OIC/RSO and assigned sUAS pilots.**

Conflicts: Details found in Figures-12 through 18 and paragraph H-3. Check the Range Facility Management Support System (RFMSS) for applicability.

- Range 9 conflicts with Range 15, Range 15A, the parking area, and LZ Turkey based on DODIC fired.
- Range 9 Closes the MCB-3F, MCB-6D, and MCB-6E gates based on DODIC fired and south of MCB-3E gate.
- Simultaneous occupation or firing from Range 9 and Range 15 may be prohibited based on DODIC fired.
- Simultaneous occupation or firing from Range 9 and Range 15A may be prohibited based on DODIC fired.
- Range 9 closes Range 15A and the maneuver area based on DODIC fired.
- Range 8A conflicts with access to Range 9 via Dirt-6 and Range 9 road.
- Range 9 conflicts with LZ-Turkey, LZ-Blue Jay, and LZ-Loon.
- Range 9 conflicts with several roads: MCB-3, MCB-5, MCB-6, Dirt 6, Dirt-7, 613, 617, and Muddy Road based on DODIC fired. (Figures 12-18)
- All movement forward of the firing line is prohibited: Potential UXO in the TA-9A high hazard impact area.
- Use of rockets conflict with tower (Fig-14), use of Javelin and TOW do not due to deviation FP. Figure-13/13A.

Main Firing Line, Left/Right Lateral Limits, and Max Target Distance



Figure-1

Observation Tower



Figure-2

A. WEAPONS ACCOMMODATED: Detailed list is maintained in RFMSS.

Ground:

- Service rifles, shotguns, and pistols
- Precision rifles
- Approved foreign weapons
- Approved hand-held grenade launchers
- Light, medium, heavy machine guns
- 25mm chain gun (TP Only)
- Approved automatic rifles
- 40mm (handheld)
- 40mm (MK19 TP only)
- 60mm and 81mm mortars
- Javelin guided missile (with restrictions under deviation see paragraph H.15)
- AT-4
- SMAW
- M72 LAAW
- M3 MAAWS
- TOW 2A missile (INERT)
- Hand grenades (illum/practice)

AIR:

- Small and med machine guns-R15 IA (door gunnery)
- 20mm (Cobra and F/W)-R15 IA
- 30mm (A-10)-R15 IA
- 2.75" FFAR MK 66-R15 IA (INERT)
- 5" Rockets-R15 IA (INERT)

B. AMMUNITION AUTHORIZED: Detailed list is maintained in RFMSS. (Figures 11-16)

GROUND:

- Pistol (All)
- Shotgun (All)
- Hand grenades (Illum/Practice Only)
- 40mm handheld grenade launchers (all)
- 40mm (MK-19): TP only
- 5.56mm (All)
- 7.62mm x 51mm, 7.62mm special ball, 7.62mmx54mm, 7.62mmx39mm
- .300 Winchester Magnum
- .50 cal ball
- .338 LaPua Magnum
- AT-4 (All)
- SMAW (All)
- 66mm LAAW HE/21mm LAAW Trainer
- M3 MAAWS (All)
- 25mm (TP Only)
- 60mm mortars (MAX Charge 1)
- 81mm mortars (MAX Charge 1)

-Javelin guided missile (with restrictions under deviation see paragraph H.15)

-TOW 2A missile (INERT)

AIR:

-Small and med machine guns-R15 IA (Door)

-20mm (Cobra and F/W)-R15 IA

-30mm (A-10)-R15 IA

-2.75" FFAR MK 66-R15 IA (INERT)

-5" Rockets (INERT)-R15 IA

C. LASERS AUTHORIZED: Up to and including Class 4 Lasers are authorized on this range. Lasers will not be fired above the designated laser targets for this range. Class 3B and Class 4 lasers will only be fired at designated targets Figures 7-10.

D. TARGETS/SIMULATORS/DEVICES.

1. Portable Infantry Targets (PITS) and Trackless Mobile Infantry Targets (TMITs) are not authorized for this range due to the high hazard impact area restrictions.
2. Use of additional Steel Reactive Targets (SRTs) or any other type of targets must be approved by the IRSO and coordinated with MCBQ EOD for placement and retrieval.
3. If approved, use of additional SRTs must comply with stand-off distances and other requirements of the most recent SOUM or MCO 3570.1 (DAPAM 385/63) whichever is current.
4. Training IED's, simulators, etc. may be used but must be placed on or behind the firing line. Movement forward of the firing line into the dud impact area is prohibited (must be coordinated through the Training Systems Support Desk (TSSD)).
5. Additional steel targets to include EODT-style vehicle silhouettes and non-automated steel silhouettes targets and metal Connex Shipping containers are in the impact area and may be engaged. Placing any additional targets is restricted and requires specific coordination with Range Control and MCBQ EOD.
6. Pallets and tires are not authorized targets or target reference points.
7. OIC/RSO must ensure all targets are placed and engaged from positions so that gun-target lines and all rounds fired do not exceed the left and right lateral limits.
8. Enhanced Performance Round (EPR) ammunition (M855A1/M80A1) is authorized to be fired on this range at the targets down range but will not be fired at any additional SRTs provided by the Support Contractor.
9. If authorized in advance by Range Control, SRT will be engaged according to the distances listed in paragraph (E).
10. Contact Training Support Center (TSC) at (703)432-7026/7969 for target support or questions.



Figure-3

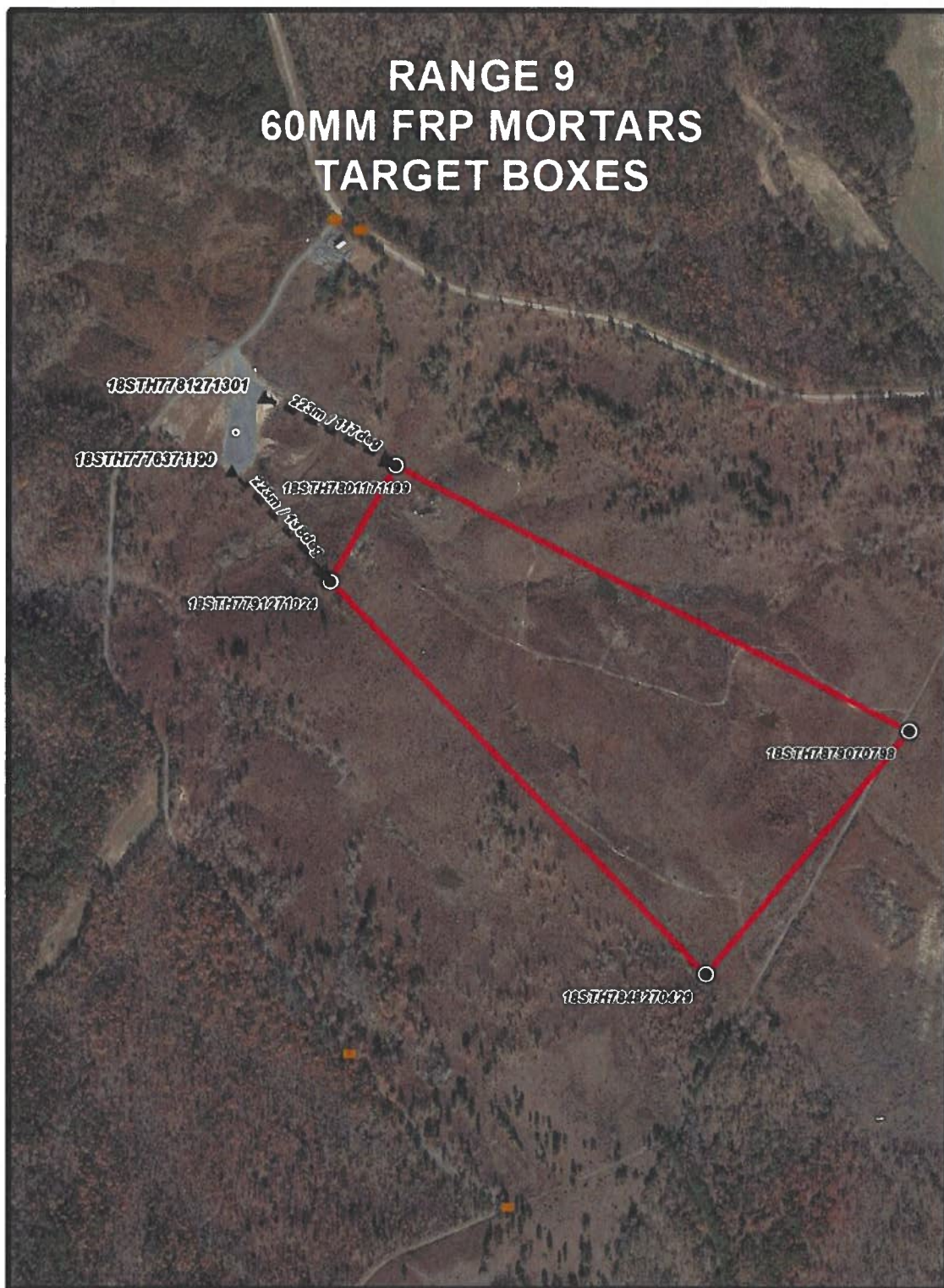


Figure-4



Figure-5



Figure-6

Target Distances and References 234m to 480m



Figure-7

Target Distances and References 665m to 710m



Figure-8

Target Distances and References 790m to 1030m and Javelin Specific Target



Figure-9

Target Distances and References 1040m to 1700m, Dirt-6 Rd, and Artillery Reference Target for GP-45 and GP Tokyo



Figure-10

ROZ-R09 AND ROZ-BRAVO 2

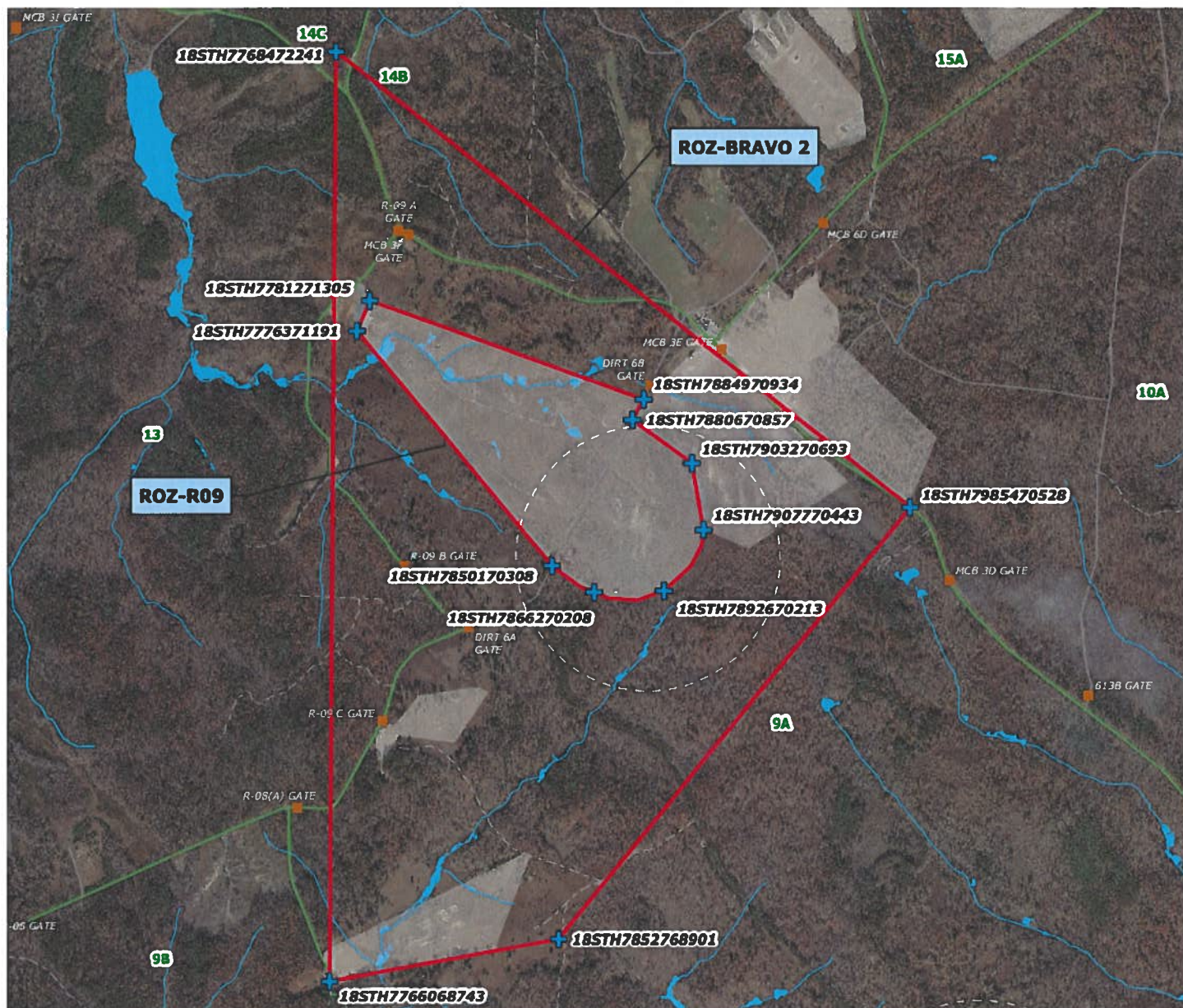


Figure-11

E. Minimum engagement distances for SRT and TMITs:

-Pistol:	7 meters
-Shotgun (bird/buck):	10 meters
-Shotgun (slug):	45 meters
-5.56mm (soft-core):	23 meters
-5.56mm (steel penetrator):	69 meters
-5.45mm:	69 meters
-7.62mm Ball/linked:	150 meters
-7.62mm Special Ball:	150 meters
-7.62x39mm/7.62x54mm:	150 meters
-.300 Win Mag/Norma Mag:	375 meters
-.338 Lapua Mag/Norma Mag:	375 meters
-.50 cal:	375 meters

F. TRACKLESS MOBILE INFANTRY TARGETS (TMITs):

TMITs are not authorized on Range 9.

G. SMALL UNMANNED ARIAL SYSTEMS (sUAS) and Counter sUAS OPERATIONS:

1. All sUAS must be approved for use by the NAVAIR "Blue List" or by waiver.
2. Use of sUAS requires preapproved frequency assignment from Range Control or Spectrum Manager approval. Frequency deconfliction is the responsibility of the OIC/RSO and assigned sUAS pilots.
3. All sUAS RFMSS requests must include an appropriate Restricted Operating Zone (ROZ) that encompasses the anticipated flight area for the event. ROZ Bravo-2 or ROZ Range 9 apply. (see Figure-11)
4. Standard elevation authorized for sUAS is 1499' MSL and below. Higher altitudes may be authorized on a case-by-case basis.
5. Same Day sUAS requests made to the Fire Desk may be authorized on a case-by-case basis based on the parameters noted in items 1-4 above.
6. sUAS operations with kinetic payloads are authorized for use on this range with RCO approval.
7. Pre-flight operational checks of all control frequencies are required to deconflict with other targets such as PITS, TMITs, and turning target systems, communication equipment, and any remotely operated simulators such as the X-CAL on any adjacent range.
8. Live fire from adjacent ranges presents a risk to the sUAS of being struck. If the sUAS is downed in this or any other manner the following steps must be followed:
 - a. Contact Range Control immediately to report the incident.
 - b. If the sUAS is within the physical limits of Range 9 north of the main firing line, the sUAS is recoverable by the OIC/RSO and normal check-fire procedures with adjacent ranges will apply.
 - c. If the sUAS is downed beyond the main firing line, anywhere in the TA-9A high hazard impact area, OIC/RSO must notify Range Control and request EOD support to recover the sUAS.
 - d. If the lithium battery is damaged or on fire, the OIC/RSO must follow hazmat procedures for extinguishing the fire and handling the damaged battery.
 - (1) If the sUAS is recoverable, normal hazmat and firefighting procedures will apply.
 - (2) If the sUAS is downed in the high hazard impact area of TA-9A, the OIC/RSO will call Range Control and report the fire and stand by for further instructions and assistance. **Do not enter the high hazard impact area.**
 - e. Typically a "spill kit" consisting of a bucket or ammo can of dry sand is used to cover the damaged battery to mitigate any sudden fire or explosion. **Do not use water or wet sand.**

- f. OIC/RSO are responsible to contact their unit hazmat representative and dispose of the battery correctly.
- g. If the battery catches fire forward of the main firing line, notify Range Control of the fire and do not attempt to extinguish the fire due to risk of UXO.
- 9. Counter sUAS (CsUAS) requires prior coordination and specific approval from the IRSO prior to conducting CsUAS training. Any nonstandard platforms or ordnance will require a Limited Range Safety Release (LRSR) from Marine Corps Ranges and Training Area Management (MCRTAM).
- 10. Use of electronic counter measures (ECM) that jam, block or interfere with GPS or radio frequency (RF) signals requires special authorization and may not be permitted. Allow for 45 days to process requests.
- 11. Wire guided sUAS: OIC/RSO are required to recover as much of the fiber optic or wire used to control the sUAS as safely as possible. Report wire used and wire recovered to the Fire Desk as part of the end of day training report and let the RSS conducting the post inspection know.

H. RANGE USE RESTRICTIONS/COMMENTS:

- 1. All range regulations and this SOP will be strictly adhered to. Only the weapons, ammunition and ordnance listed in this document and detailed in RFMSS will be used on this range.
- 2. OIC and RSO must be present while live fire is in progress. Units that do not occupy their range within two hours of their scheduled occupy time will lose the priority of use of that range for that day.
- 3. Range 9 conflicts with Range 15, Range 15A, LZ-Turkey, and LZ-Bluejay (East/Southeast) and LZ-Loon Southwest. Use of the TOW also closes Range 8 impact area.
 - a. Use of certain ammunition closes MCB-3 from the MCB-3E gate and south.
 - b. Use of certain ammunition will close Range 9 Rd along with the following roads: Dirt 6 North and South, 618, MCB-6, MCB-5, Muddy Road, Dirt-7, and 617.
 - c. Use of 81mm HE Mortars closes Range 15 and Range 15A. Special coordination for simultaneous use is required unless Full Range Practice Mortars (C875) are used.
 - d. Use of certain ammunition will require specific coordination with Range Control when conflicting with some events such as hikes and convoy operations. Consult your RCNI in RFMSS for details on any active conflicts.
- 4. Range 9 layout:

Main firing line: (L) 18STH7781271301 (R) 18STH7776371190 Principal Direction of Fire: 139° grid
 Mortar Position 9 : Left FP: 18STH7781271301 on 117° grid
 Principle Direction of Fire: 117° grid
 Right FP: 18STH7776371190 on 138° grid
 Principle Direction of Fire: 138° grid

- 5. This range fires into a high hazard/dud impact area contaminated with unexploded ordnance (UXO). Downrange movement without MCBQ EOD escort is prohibited.
- 6. Non-participating personnel are not allowed in the Range 15/Range 15A/LZ Turkey area under any circumstances when firing from Range 9.
- 7. Ensure range flags are posted, ear protection is worn (eye protection for steel), safety brief is given, Range Control is contacted, and all fires are directed between the left and right lateral limits markers (black and white striped).
- 8. All brass, trash, targets, and materials will be removed completely at the end of training by the using unit.

9. HERO sensitive munitions are commonly used on this range. It is the OIC/RSO responsibility to maintain safe separation of radios and cell phones. See paragraph P.11 below.
10. FARP operations and live-fire training cannot be conducted on Range 9 simultaneously.
11. MCBQ EOD must do a surface sweep of MCB-Dirt 6 after firing mortars from Range 9 into the Range 15 target box before vehicle traffic is allowed (Range Control, Contractors, etc.).
12. Maneuver on Range 15A is not authorized when firing 81mm HE mortars from MP-9 unless coordinated in advance with the IRSO.
13. All mortar systems will be pre-registered on targets prior to conducting fire/maneuver on Range 15A.
14. Mortar firing data: Figure-15
 - a. 60mm (HE): Max Charge-1
 - Left FP: 18STH7781271301 on 117° grid
 - Right FP: 18STH7776371190 on 138° grid
 - Target Box:
 - Close Left: 18STH7834771026 (601m)
 - Close Right: 18STH7816570744 (600m)
 - Far Left: 18STH7896170710 (Table Distance X)
 - Far Right: 18STH7859570282 (Table Distance X)
 - b. 60mm (FRP): Max Charge-1
 - Left FP: 18STH7781271301 on 117° grid
 - Right FP: 18STH7776371190 on 138° grid
 - Target Box:
 - Close Left: 18STH7801171199 (223m)
 - Close Right: 18STH7791271024 (223m)
 - Far Left: 18STH7879070798 (Table Distance X)
 - Far Right: 18STH7848270429 (Table Distance X)
 - c. 81mm (HE): Max Charge-1
 - Left FP: 18STH7781271301 on 117° grid
 - Right FP: 18STH7776371190 on 138° grid
 - Target Box:
 - Close Left: 18STH7864970870 (941m)
 - Close Right: 18STH7839770495 (941m)
 - Far Left: 18STH7956170483 (Table Distance X)
 - Far Right: 18STH7898969770 (Table Distance X)
 - d. 81mm (FRP): Max Charge-1
 - Left FP: 18STH7781271301 on 117° grid
 - Right FP: 18STH7776371190 on 138° grid
 - Target Box:
 - Close Left: 18STH7839071004 (650m)
 - Close Right: 18STH7819870708 (649m)
 - Far Left: 18STH7960970464 (Table Distance X)
 - Far Right: 18STH7902169728 (Table Distance X)

15. Javelin firing details: Figure-9 and Figure-13/13A

- a. Warming the target is a critical aspect of the approved deviation allowing the Javelin to be fired on Quantico.
- b. Unit must coordinate with Range Control and MCBQ EOD no less than **30 days** in advance to plan for MCBQ EOD to enter the High Hazard Impact Area (TA-9A) to warm the target prior to the shot.
- c. Unit must provide charcoal, lighter fluid, and a pan to EOD for the warming to occur.
- d. Purpose is to ensure the Command Launch Unit (CLU) locks on to the single target authorized for this in the deviation.
- e. The Javelin must be fired from the single point and engage a single point along the azimuth listed here:
FP: **18STH7778971247**
TP: **18STH7853170553 (EODT)**
MTL **Azimuth: 133.09° grid**

16. TOW firing data: Figure-13/13A

- a. The TOW is fired under a Deviation and must be fired from the single point below.
- b. The TOW must be fired at one of the two targets below only.
FP: **18STH7778971247**
TP: **(Near) 18STH7849970803 (EODT) or (Far) 18STH7930570320 (Tree line)**
MTL **Azimuth: (Near) 121.43° grid, (Far) 121.97° grid**

17. Artillery can be observed in the Range 15 target area from Range 9 when it is fired from GP45 or GP Tokyo.

18. When firing 25mm chain gun from LAV-25 vehicles, only training purpose (TP) ammunition will be used. Vehicles can move on the range while firing if under 5 mph.

19. All aerial firing (fixed, rotor wing and door gunnery) will be conducted in line with Range 9 firing line and the Range 15 target area (Range 9-Range 15 corridor).

20. Units that do not occupy their range within two hours of their scheduled occupy time will lose the use of that range for that day.

21. Units that have requested contractor support (PITS targets, TMITs, battlefield effects simulators, etc.) that are not present on the specified range within 1 hour of the requested time and have not contacted RMB/TSCQ will forfeit all contracted support for the day.

22. Units that have occupied a range with approved contractor support and that have not begun to use that support within 2 hours of the requested hour of operation will forfeit all contracted support for the day.

23. Units that are training with contractor support that place themselves into a voluntary check fire for 2 hours during the approved support operational hours will forfeit all support for the day.

24. Units that encounter situations where contractor support is delayed or interrupted by circumstances beyond the control of the requesting unit (RMB directed check fire, ASP support, MEDEVAC, etc.) must contact RMB/TSCQ to arrange continued support within the scope of the contract and available assets.

25. FARP and Hung Ordnance Operations will be conducted IAW Squadron SOP and as follows:

- a. All fuel bladders and trucks will be placed or parked on secondary spill containment sufficient to contain all leaks and spills.
- b. Aircraft will be oriented on heading 155° Magnetic during all fueling, loading, unloading, and hung ordnance operations.
- c. Hung Ordnance: OIC will immediately contact the RCF so appropriate check-fires can be initiated.
 - (1) When cleared, aircraft will proceed to the FARP in the most direct route possible.
 - (2) Maintain the nose of the aircraft oriented to the center of the TA-9A impact area and away from ground troops and the Installation Boundary. Rocket pod must not exceed 45° elevation.
 - (3) Set down at the FARP on a heading of 155° Magnetic. (Figure-17)
 - (4) Await further instructions.

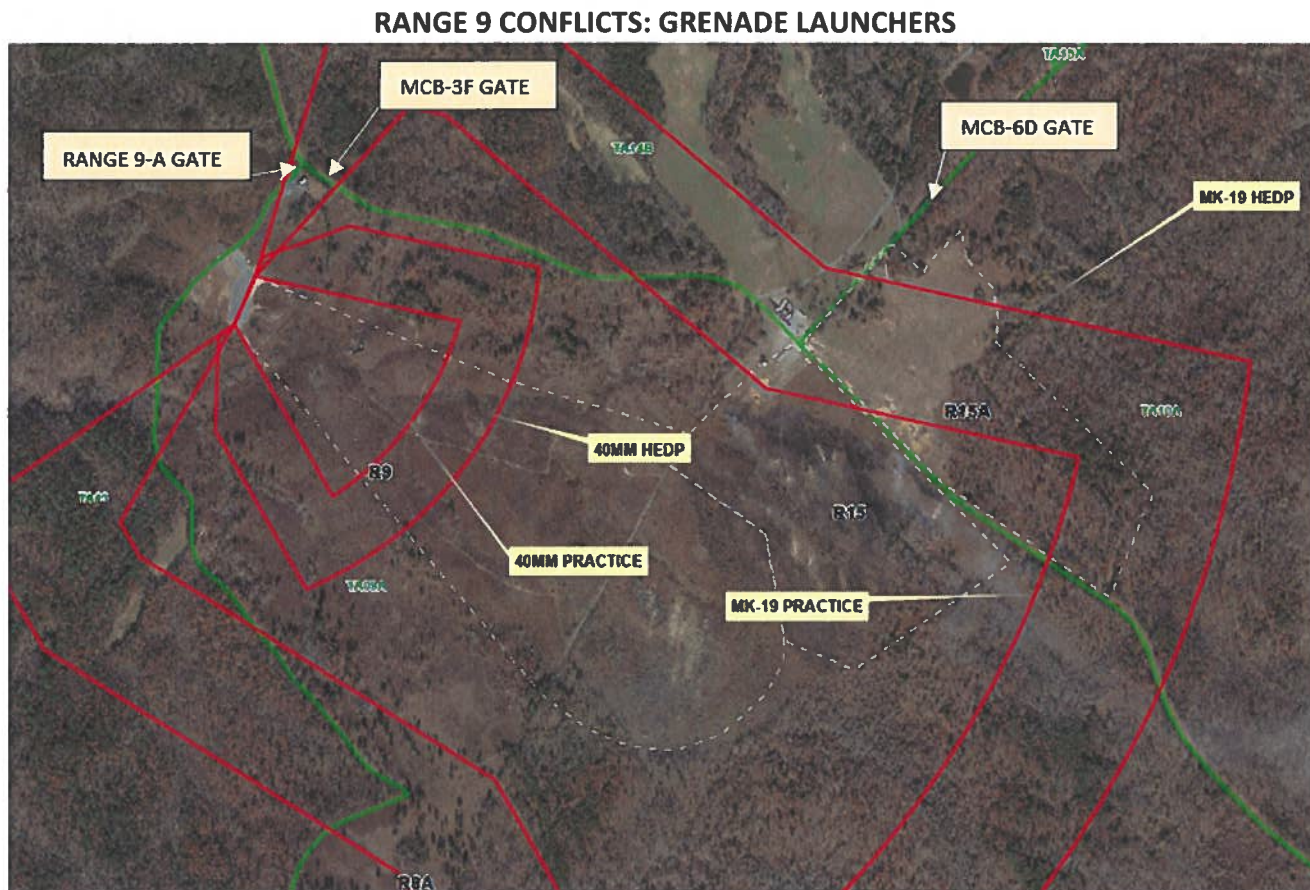


Figure-12

RANGE 9 CONFLICTS: MISSILES

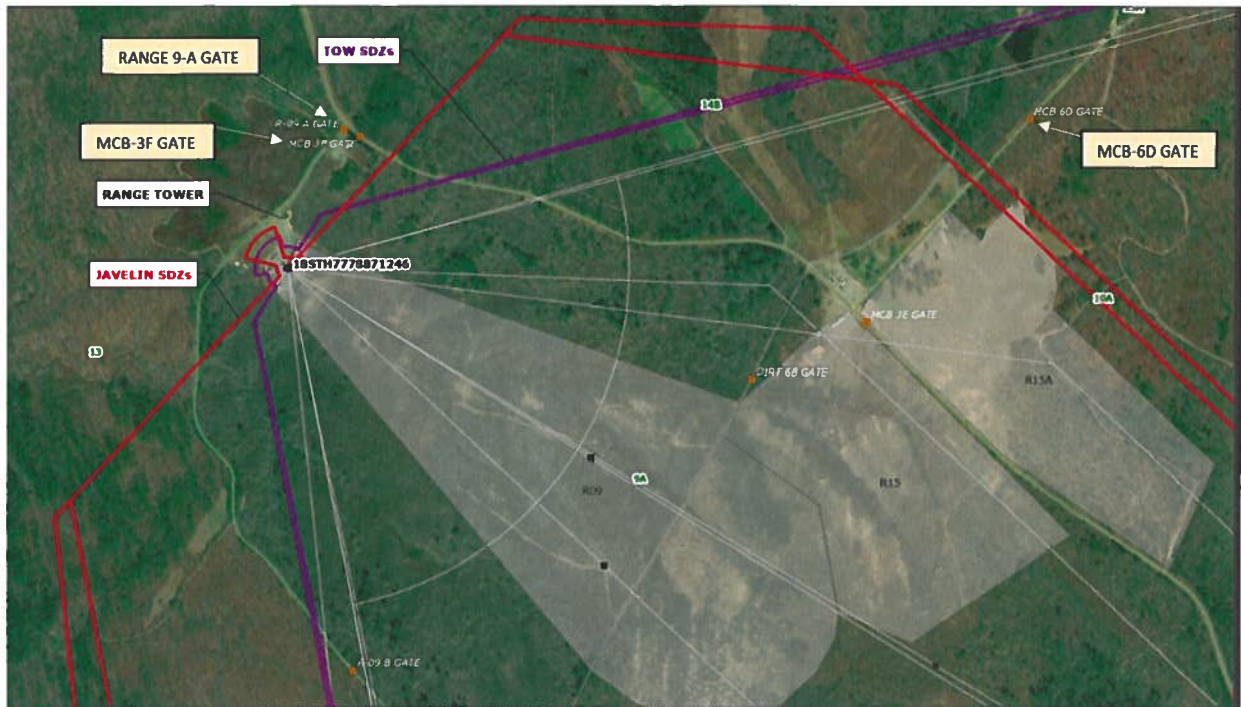


Figure-13

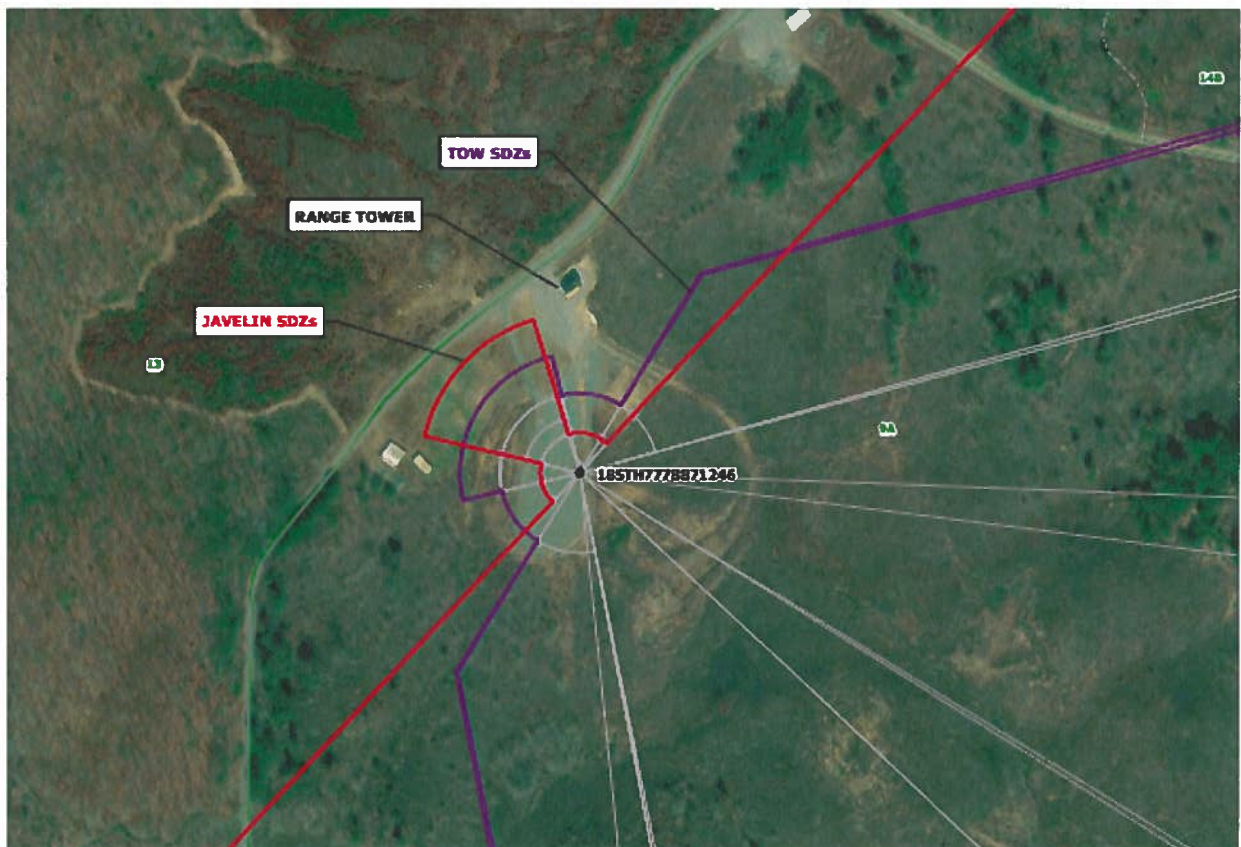


Figure-13A

RANGE 9 CONFLICTS: ROCKETS

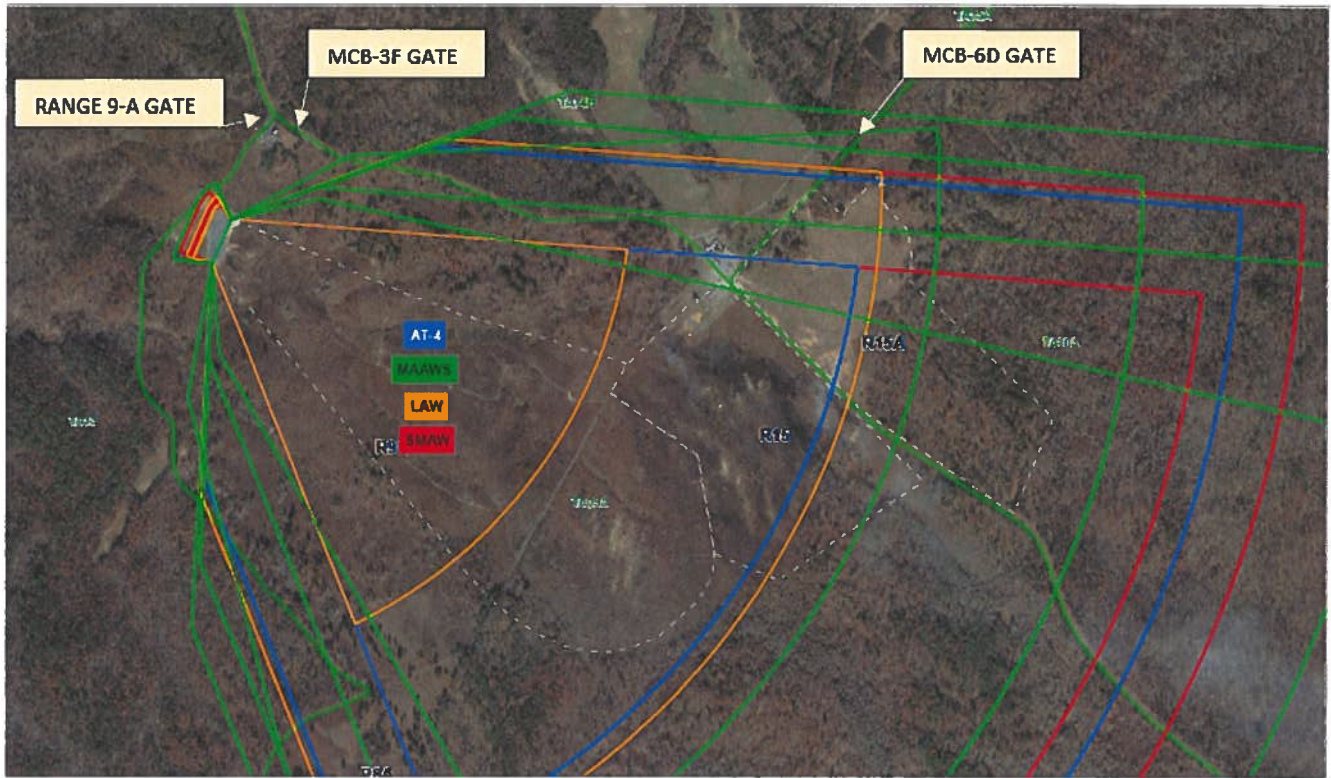


Figure-14

RANGE 9 CONFLICTS: MORTARS

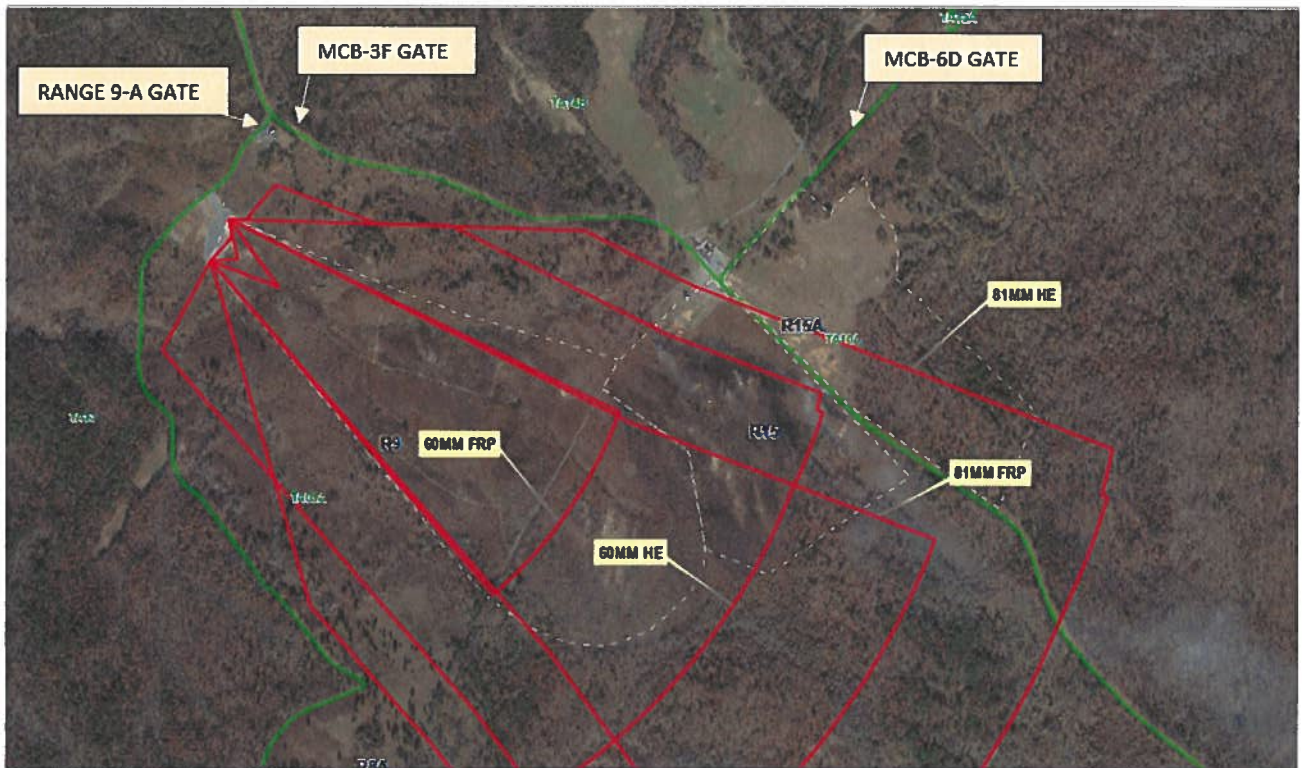


Figure-15

RANGE 9 CONFLICTS: 25mm

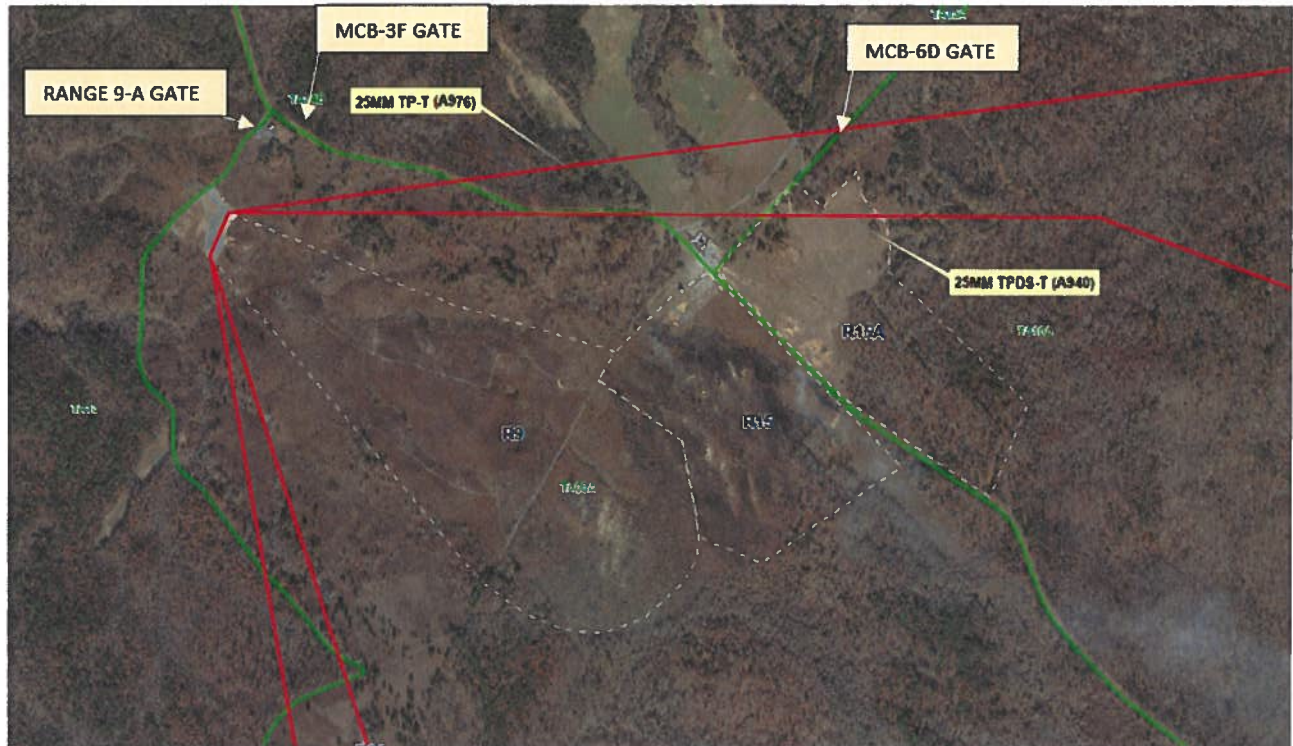


Figure-16

RANGE 9 CONFLICTS: SMALL ARMS



Figure-17

HUNG ORDNANCE

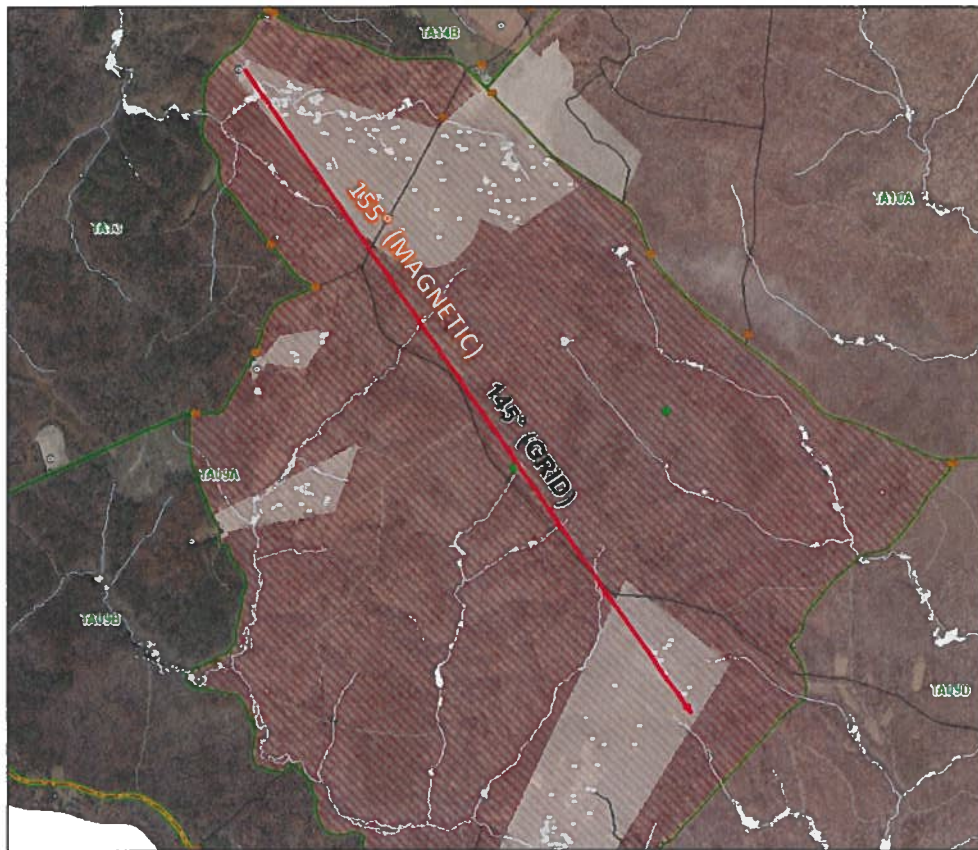


Figure-18

I. APPLICABLE MAP SHEET. All grid coordinates listed in this order apply to the Quantico Military Installation Map V834S Edition 5-NGA 1:25,000

J. FACILITIES.

Towers: 1

Sheds: 1

Ammo Breakdown: None

Parking: Limited

Description of other structures: (2) Porta-Johns

K. UTILITIES AVAILABLE.

Electricity: None

Lights: None

Water: None

L. INSTALLED COMMUNICATIONS: None

<u>M. MEASURED DISTANCES:</u>	<u>MILES</u>	<u>MGRS</u>	<u>LAT/LONG</u>
TBS	8.0	87106390	
ASP	10.0	91256605	
EMT/Fire (Fire house 3):	10.4	89606410	
Range Control	8.5	87406360	
WTBN	8.5	87806740	
Main side gate	12.0	94406440	
Camp Upshur	5.0	80007850	
Nearest MEDEVAC LZ: CONDOR	0.0	18STH7777071248	38° 33.715' N 77° 33.034' W

N. AVAILABLE DAYS/HOURS: 362 days. 0500-2359. All other times require special permission due to quiet hours.

O. AREA SUITABILITY:

<u>Unit Type</u>	<u>Unit Size</u>	<u>Number of Units</u>
Combat Arms	Squad	1
Mortars	Section	2
Infantry	Squad	1

P. GEOGRAPHICAL DATA:

Access Routes: MCB-3 and Range 9 Road.

Soil Type: Dirt/Gravel

Terrain Type: Flat

Vegetation: Grass/Woodland

Q. COMMUNICATION REQUIREMENTS:

1. A radio check is required immediately upon occupying any portion of the RTA, every 30 minutes at top/bottom of the hour in a live fire status and every 3 hours top of the hour in a non-live fire status.
2. The Range Control Facility (RCF) Fire Desk Safety Net call sign is "Range Control". Your call sign is **"RANGE 9"**.
3. The Primary means of communication with the RCF (Fire Desk) on the Safety Net is via the ELMR Radio provided to OIC/RSO at time of check out on the talk group "RC Safety".
4. The Secondary means of communication with the RCF (Fire Desk) is via the OIC/RSO Cell Phone to: 703-784-5321 or 5322. Cell phone number is verified at time of occupation.
5. OIC/RSO will monitor the RCF Safety Net and secondary means of communication at all times. Instant communication is required.
6. Any unit with organic ELMR radios will have the "RC Safety" talk group programed in and use those radios as their primary means of communication within the RTA.
7. Units without organic ELMR assets will be issued ELMR radios from RMB upon check-in.

8. Approved non-ELMR radios are only authorized for internal communication (ground).
9. If the RCF cannot reach a unit within the RTA via primary communication, the unit will be contacted via the secondary means of communication.
10. Upon loss of primary communication, the OIC/RSO will initiate a "check fire"/cease training status and will contact the RCF via secondary communication. This communication will be maintained while primary communication is being restored. Units may only resume firing/training once primary communication has been re-established and clearance is granted by the RCF.
11. ELMR Radios are required to maintain 19ft (6m) separation from HERO unsafe ordnance and 10ft (3m) separation from HERO susceptible ordnance. Cell Phones are required to maintain 10ft (3m) from HERO unsafe and HERO susceptible ordnance.

R. INJURY CLASSIFICATIONS:

Injuries are classified into the following categories to aid in casualty evacuation from the RTA.

1. ROUTINE. Routine injuries are those injuries that are not threatening to life, limb or eyesight, and conditions or illnesses treatable by medication or procedures available at the base medical facilities.
2. PRIORITY. Priority injuries are those injuries that require immediate medical attention but are not threatening to life, limb, or eyesight if treated promptly.
3. URGENT. Urgent injuries are severe injuries that are threatening to life, limb, or eyesight and require immediate medical attention.
4. MASS CASUALTY. A mass casualty is a series of injuries with multiple priority and urgent medical patients.

S. MEDICAL EVACUATION (MEDEVAC) PROCEDURES:

1. Injury occurs.
2. Range will immediately cease fire.
3. Medical support evaluates/treats injured personnel.
4. Range OIC/RSO notifies the RCF of the injury, is the victim conscious/unconscious and what type of MEDEVAC transportation is requested (ground/air).
5. The OIC/RSO must maintain constant radio contact with Range Control and awaits further instructions.



INSTALLATION RANGE SAFETY OFFICER

DATE: 09 SEPTEMBER 2025