

**FIRING/NONFIRING DATA**

*For use of this form see USAIC Regulation 350-19; the proponent agency is DPTMS*

<b>TO:</b> Chief, Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905	<b>Date:</b> 14 AUG 2014 <span style="float:right">LOG# 8-5-14</span> <b>Range:</b> Ware Range <b>Title:</b> Stryker Gunnery <b>Problem No:</b>
<b>THRU:</b> S-3, 316 CAV BDE FT. Benning, GA 31905	<b>FROM:</b> S-3, 1-29 IN BN FT. Benning GA 31905

**SECTION I, TYPE OF TRAINING**

a. Live Fire     
  b. Non-live Fire     
 CP/Controller Coordinates: GA 0963 9728 Tower

**SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS**

Coordinates	Type	Model/DODAC	Size of Charges
N/A	N/A	N/A	N/A

**SECTION III, WEAPONS/AMMUNITION REQUESTED**

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
See Weapons and Ammo List	See Weapons and Ammo List	See Weapons and Ammo List	See Weapons and Ammo List	See Weapons and Ammo List

**SECTION IV, LIVE FIRE EXERCISES Attach the following:**

**SECTION V, NON-LIVE FIRE TRAINING**

<input checked="" type="checkbox"/> Scenario of training to be conducted: <input checked="" type="checkbox"/> Sketch of area: <input checked="" type="checkbox"/> Risk Assessment: <input type="checkbox"/> Attach FB Form 350-19-2-E-R if Mortar or artillery is being fired:	<b>Training area(s) to be occupied:</b>  <input type="checkbox"/> Scenario of training to be conducted: <input type="checkbox"/> Sketch of area(s) to be occupied: <input type="checkbox"/> Risk Assessment:
---	--

Name/rank of requesting officer: STEPHEN, VON JETT CPT, Commanding	Name/rank of Major Unit S3/Commander: KEVIN J. HABICK, CPT, IN S-3, 1-29 Infantry
---	--

**SECTION VI, FOR RANGE DIVISION USE**

**DATE:** 27 Oct 14

<b>TO:</b> S-3, 316 CAV BDE FT. BENNING, GA 31905	<b>FROM:</b> Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905
--	--

<b>a. Roadblocks to be closed:</b>	K: 5, 12, 14, 15, 16A, 16B, 17, 45, 46, 47    O: 9, 18
<b>b. Road(s) to be closed/road barrier locations:</b>	
<b>c. Remarks:</b>	Laser warnings will be posted prior to use
<b>d. This approval expires:</b> <i>Indef</i>	

Chief, Range Division  
 Directorate of Plans, Training, Mobilization and Security  
*Brad S. [Signature]*

**DEPARTMENT OF THE ARMY**  
**1<sup>ST</sup> BATTALION, 29<sup>TH</sup> INFANTRY REGIMENT**  
**Fort Benning, GA 31905-5594**

ATSH-INA-I

14 AUG 2014

MEMORANDUM FOR: Chief, Range Operations, U.S Army Garrison, Fort Benning, GA.  
31905

SUBJECT: Stryker Familiarization for SBCT Leader.

1. **PURPOSE:** The purpose of this Range is to conduct day Stryker Familiarization fire in order to give Soldiers of the SBCT Leader, and SBCT Transition Courses, hands on application of the capabilities of the Stryker vehicle.
2. **TRAINING OBJECTIVE:** Weapons and Ammunition.
  - a. M2 mounted on Stryker RWS .50 Cal Ball/Tracer link
  - b. Laser Storm/Small Tactical Optical Rifle Mounted Micro Laser range finder
3. **CONCEPT OF TRAINING:** The operation will be conducted in the three phases.

A. **PHASE I – PREPARATIONS:** The Soldiers will be trained on the Embedded Trainer Computer and Remote Weapon Station Skills Test prior to going to the range. All platoon equipment will be inspected for serviceability and safety prior to training. All vehicles will be properly dispatched, and all support request will be completed and confirmed. A convoy brief will be conducted before moving out to the range. And crew drill will be done before movement (i.e. rollover drills, fire evacuation drills). All air guards will have on their gunner restraint harness. Coordination will also be made with Range Control to ensure all issues are addressed before the training is conducted.

B. **PHASE II – Familiarization Fire:** The Familiarization Fire will be conducted in three parts.

(1) Occupation of the range – The Branch will conduct movement to Ware Range, and move to the designated assembly area. The branch will occupy Ware Range IAW 350-19-1-E-R. Once vehicles are in position all Soldiers will move to the covered bleachers for Range safety brief. Medical assets will also be pre-positioned according to the range layout sketch.

(2) Familiarization Fire – Once both ICV are at the BP's and personal have received their safety brief the students will be broken down into two groups. The groups will then proceed to the ammunition point to draw their respective ammunition. Once ammunition has been drawn the Soldiers will proceed in a direct line behind the vehicle to their respective BP. Once all ammunition for the group is consolidate on top

ATSH-INA-I

SUBJECT: Stryker Familiarization for SBCT Leader.

of the vehicle the Cadre on that vehicle will ensure ammunition is loaded correctly and the first student in the firing order will be positioned behind the RWS Fire Control Unit. From this point on all commands will be giving by the cadre confirming proper loading/unloading procedures are followed. The targets will be engaged and all ammo will be fired (for distances see attached target list). All weapons will be cleared by Range safety officer prior to changing shooters and prior to any vehicles moving from the firing line.

(3) Clean Up – A detail clean up of the range will be conducted once all training is complete. All equipment and trash brought to the range will be removed, and the proper closing codes will be obtained from Range Control. A 100% sensitive item check will be done prior to leaving the Range. Once range is cold range flag will come off the range pole and brought back to range maintenance personnel.

C. **PHASE III – RECOVERY:** Once the unit has cleared from the range, the unit will return to the Battalion area. A closing report must be submitted at the completion of training. A detailed recovery will be conducted as per the SOP. A detailed after action review will be conducted as well.

4. **CONTROL MEASURES:** The cadre will ensure all personal are clear of the SDZ prior to engagement. All training will be in accordance with the appropriate FM's, Battalion standards, SOP's, Fort Benning regulations and Deliberate Risk Management Worksheet.

5. **LASER SAFETY:** Class III A lasers are not eye safe on dual low mode within 25 meters. PEM – 1A is not a tactical laser and must be used within 25 meters. Laser Warning Signs will be in place prior to opening the range. **Range safety briefing will include hazards using Lasers and NVD's.**

6. **Medical:** In the event of an accident, injury or illness, the OIC/RSO will immediately call a cease fire. then call 911 using the standard 9 Line MEDEVAC to determine what type of evacuation is the most appropriate for the injury (loss of life, limb or eyesight). MEDEVAC will be IAW MCoE Regulation 350-19 and MCoE 40-2. Landing zone for MEDEVAC aircraft will be established prior to use and will be marked appropriately. Range Division Alpha Base will be notified in this event. The cease fire will remain in effect until cleared through Range Division Alpha Base.

7. **Incident:** When an incident occurs on the range, regardless of injury or not, the OIC/RSO will immediately call a cease fire and report it to Range Division Alpha Base and the using unit's higher headquarters and MCoE safety. OIC/RSO will take action as directed by Range Division Alpha Base. The cease fire will remain in effect until the problem is resolved and cleared through Range Division Alpha Base. If the incident results in an injury, the OIC/RSO will use the procedures outlined in the medical paragraph. The following information will be furnished by the OIC/RSO to Range Operations:

- a. Designation of unit.

ATSH-INA-I

SUBJECT: Stryker Familiarization for SBCT Leader.

- b. Range and location
- c. Type of weapon involved.
- d. Type of ammunition involved.
- e. Brief summary of what happened.
- f. Personnel injuries and extent.
- g. Full Name, SS#, Rank and unit of injured personnel.
- h. Extent of property damage.
- i. Intentions regarding an AR 15-6 investigation.

8. **Ammunition:** There will be no de-linking or re-linking of any ammunition. Any ammunition that has been de-or re-linked is considered nonstandard and is prohibited from the range.

9. **Weapons/Ammunition Malfunction Reports:** When a malfunction is experienced, the OIC/RSO will suspend all firing and immediately notify Range Division Alpha Base and MCoE safety. The weapons and all components and ammunition involved will remain in place. The cease fire will remain in effect until cleared through Range Division Alpha Base. An investigation is required and will be conducted by the ammunition and weapons inspection personnel, MCoE safety personnel and DOL.

10. **Communications:** Unit will maintain continuous contact with Range Division Alpha Base at all times. If communications are lost the unit will go into a self induced check fire until communications are restored.

10. **Ammo Point:** The ammo point NCO will control the issue and retrieval of all ammunition. All ammunition (blank, live, HE, TP-T, etc...) will be marked and physically separated within the ammo point (or separate ammo points) and signed by the ammo NCO.

11. **Signals:** Primary means of signaling shift/cease fire will be FM communication. Alternate signal will be colored smoke/star cluster/VS-17. Company Leadership will be with each element to confirm receipt of signals by tactical radios. Emergency cease fire signal will be RED SMOKE/ Air-horn held by the SBF and Assault element's evaluators. All signals will be included in the initial safety briefing. Anyone observing any unsafe act can call for a Cease fire.

12. **Range Considerations:** The following will be employed while conducting training:

- a. The range OIC and RSO will be present for all training.
- b. ALL VEHICLE CREWS participating in the Gunnery will adhere to MCoE 350-19, and proper display of colored flags to signal weapons/ ammunition status
- c. All weapons will remain on safe and oriented down range while loading and unloading the weapon.

ATSH-INA-I

SUBJECT: Stryker Familiarization for SBCT Leader.

d. All ammunition will be discharged down range and within the designated limits. All unused ammunition will be turned in to the Ammo Supply Point, to the Ammunition NCO.

e. The range OIC/RSO will ensure that all Soldiers receive a detailed safety brief and that all training is conducted to standard.

f. All Soldiers will be briefed that any Soldier observing an unsafe act can immediately call a check/cease fire.

g. At no time will ammunition will be fired over the heads of Soldiers.

h. Any issues during training will immediately be reported to Range Division Alpha base and/or chain of command.

i. All environment considerations will be enforced.

j. Personal movement from the bleachers to the vehicle and back to the bleachers will be handled by range NCOIC. Soldiers will proceed in a straight line from the rear of the vehicle on and off the firing line.

k. All Soldiers will be in proper range uniform; ACH, eye protection, ear protection, gloves and LBE/MOLLE kit.

l. Smoking only in designated smoking area.

13. The POC for this memorandum is undersigned at Office: 706-544-6436



KEVIN J. HABICK  
CPT, IN  
Battalion S-3, 1-29 IN

**Ware Range 316 CAV, 1/29 IN STRYKER Gunnery (Log #8-5-14) Weapons/Ammo & Target List**

<b>Firing Positions</b>	<b>Weapons</b>	<b>Ammunition</b>	<b>Left Limit Mils, Grid Az</b>	<b>Right Limit Mils, Grid Az</b>
Baseline, BP1, BP2: GA 0968 9735 to 0970 9720	M2	.50 cal Ball & Tracer	1245	1925

<b>Firing Positions</b>	<b>Weapons</b>	<b>Ammunition</b>	<b>Targets</b>
Baseline, BP1, BP2: GA 0968 9735 to 0970 9720	M2	.50 cal Ball & Tracer	201, 203 - 225, M1, M2.

## Ware Range 316 CAV, 1/29 IN (Log #8-5-14) Roadblocks 25 Sept 2014

#	GRID	LOCATION	TYPE	#	GRID	LOCATION	TYPE
K-2	GA 163 883	Across Box Springs Rd 125m N. of its intersection with Buena Vista Rd.	Gate	K-26	GA 201 949	Across Boundry Road 1800m S of its intersection with Turrentine Road	Gate
K-3	GA 153 894	Across entrance road leading to Concord OP 250m N. of its intersection with Buena Vista Rd.	Gate	K-27	GA 207 968	Across Turrentine Rd 600m E. of its intersection with Boundary Rd.	Gate
K-5	GA 117 920	Across Shamanski Rd 25m N. of its intersection with Buena Vista Rd.	Gate	K-28	GA 191 885	Across Whitson Rd 15m W. of its intersection with Cactus Rd.	Gate
K-7	GA 109 937	Across Moore Rd 15m N. of its intersection with Bullseye Rd.	Cable	K-29	GA 189 888	Across un-named trail on left side of Cactus Range 300m W of Cactus Road	Gate
K-8	GA 099 947	Across Bulls Eye Rd 50m E of its intersection with Lorraine Road.	Gate	K-30	GA 190 890	Across un-named trail on right side of Cactus Range 250m W of Cactus Road.	Gate
K-9	GA 103 921	Across Buena Vista Rd 40m E of the intersection with Moore Rd (Road Guard Location)	Gate	K-32	GA 192 915	Across Shamanski Road 35m W of its intersection with Cactus Rd.	Gate
K-9A	GA 106 919	Across tank trail 200m W of the Upatoi Creek ford site.	Gate	K-36	GA 163 883	Across Buena Vista Rd 50m W. of its intersection with Box Springs Rd. (Road guard location).	Gate
K-10	GA 118 920	Across Buena Vista Rd at K-5 road block.	Gate	K-36A	GA 163 882	Across Tank Trail 50m W. of its intersection with Box Springs Rd.	Gate
K-11	GA 105 927	Across Moore Rd 20m N. of its intersection with Audermarde Trail. Entrance to Terry Demo Rng. (Road guard location)	Gate	K-38	GA 201 941	Across unnamed trail 35m W. of its intersection with the east boundary road. Permanently closed.	Gate
K-12	GA 104 988	Across Old Lorraine Road 600m S of the tower on Brooks Range.	Gate	K-39	GA 202 949	Across unnamed trail 15m W. of its intersection with the east boundary road. Permanently closed.	Gate
K-13	GA 112 943	Across Moore Rd 680m N. of its intersection with Bullseye Rd.	Gate	K-40	GA 174 908	Across Box Springs Rd 30m S. of Pine Knot Creek.	Gate
K-14	GA 113 998	Across Moore Rd 10m S. of its intersection with Lorraine Rd.	Gate	K-41	GA 192 944	Across Kennesaw Trail 30m W. of its intersection with Box Springs Rd.	Gate
K-15	GA 114 999	Across course road leading out of Ruth Range 50m E. of its intersection with Moore Rd.	Gate	K-42	GA 193 944	Across Box Springs Rd 10m N. of its intersection with Cactus Rd.	Gate
K-16	GB 190 003	Across Rinehart Rd 130m W. of its intersection with Box Springs Rd.	Gate	K-43	GA 203 978	Across the northern boundary range road approx 20m N-W. of the old Hastings Range upper baseline.	Gate
K-16A	GA 172 989	Across Rinehart Rd 20m S. of its intersection with the northern boundary range road.	Gate	K-44	GA 113 955	Across Moore Rd on the N. side of Carmouche Range maneuver box.	Gate
K-16B	GA 171 990	Across un-named trail 20m S. of its intersection with the northern boundary range road.	Gate	K-45	GA 115 961	Across Moore Rd 300m S. of its intersection with the old Ware Range course road.	Gate
K-17	GB 116 013	Across unnamed trail 15m E. of Moore Rd and 300m N. of Ruth Range tower.	Gate	K-46	GA 119 979	Across Moore Rd 725m S. of its intersection with Americo Trail	Gate
K-19	GB 121 023	Across unnamed trail 220m N-E. of Oscar Range Complex Road and 30m S of the northern boundary range road.	Gate	K-47	GA 176 963	Across Turrentine Rd 1000m W. of mover 4 on Hastings Range	Gate
K-20	GB 141 021	Across unnamed trail 550m S of the northern boundary range road.	Cable	K-50	GA 195 988	Across Box Springs Rd 60m N. of its intersection with the northern boundary range road.	Cable
K-21	GB 139 027	Across the northern boundary range road Aprox 250m East of Cox Creek bridge.	Gate	O-9	101 962	600m N of Carmouche Rng on right side of Lorraine Rd	Gate
				O-18	093 979	600m N of Ware Rng Entrance on right side of Lorraine Rd	Gate



**DEPARTMENT OF THE ARMY**  
HEADQUARTERS UNITED STATES ARMY MANEUVER CENTER OF EXCELLENCE  
1 KARKER STREET  
FORT BENNING, GEORGIA 31905-5000

REPLY TO  
ATTENTION OF  
ATZB-SO

14 October 2014

MEMORANDUM FOR Commander 1/29<sup>th</sup> IN Bn., Attn: CPT Stephen Von Jett, Fort Benning, GA 31905

SUBJECT: 1-29th IN Bn Stryker Familiarization for SBCT Leaders Course Concept and Safety Review

1. References.

a. 1-29th IN Bn Stryker Familiarization for SBCT Leaders Course Concept (14 August 2014) and DRAW (04 August 2014).

b. Army Regulation 385-10, The Army Safety Program, 27 November 2013.

c. Army Regulation 385-63, Range Safety, 30 January 2012.

d. Department of the Army Pamphlet 40-501, Hearing Conservation Program, 10 December 1998.

e. Department of the Army Pamphlet 385-10, Army Safety Program, RAR 19 January 2010.

f. Department of the Army Pamphlet 385-30, Mishap Risk Management, RAR 01 February 2010.

g. Department of the Army Pamphlet 385-63, Range Safety, 16 April 2014

h. Army Techniques Publication 5-19, Risk Management, 14 April 2014

i. MCoE Regulation 350-19, Range and Terrain Regulation, 01 March 2013

2. Document received on 01 October 2014.

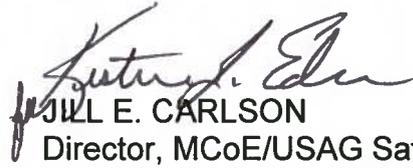
3. Concur w/comment

a. DRAW, Block 8, pgs 1-4. Recommend that you add "Individual" to the matrix. The individual Soldier is the last defense mechanism in the prevention of heat/cold weather injuries, fratricide, negligent discharges, lost/mis-orientated Soldier, rounds outside the range fan, etc. Why not hold that individual accountable for that action or inaction rather than the range OIC or RSO?

ATZB-SO

SUBJECT: 1-29th IN Bn Stryker Familiarization for SBCT Leaders Course Concept and Safety Review

4. Point of contact is Mr. Michael W. Risher II, MCoE/Fort Benning Safety Office, Comm. (706) 545-8278, Govt. Cell. (706) 604-7249, [michael.w.risher.civ@mail.mil](mailto:michael.w.risher.civ@mail.mil)

  
JILL E. CARLSON  
Director, MCoE/USAG Safety



## DELIBERATE RISK ASSESSMENT WORKSHEET

<b>1. MISSION/TASK DESCRIPTION</b> Stryker Leader Course/ Ware Range	<b>2. DATE (DD/MM/YYYY)</b> 04/08/2014
---	---

<b>3. PREPARED BY</b>		
<b>a. Name (Last, First, Middle Initial)</b> Daly, Richard L	<b>b. Rank/Grade</b> SFC/ E-7	<b>c. Duty Title/Position</b> Branch Manager
<b>d. Unit</b> Delta Company 1BN 29IN REG	<b>e. Work Email</b> richard.l.daly.mil@mail.mil	<b>f. Telephone (DSN/Commercial (Include Area Code))</b> 360-350-8957
<b>g. UIC/CIN (as required)</b>	<b>h. Training Support/Lesson Plan or OPORD (as required)</b>	<b>i. Signature of Preparer</b> DALY.RICHARD.LAM ONT.1092890801 <small>Digitally signed by DALY RICHARD LAMONT 1092890801 DN: cn=DALY RICHARD LAMONT, ou=DoD, ou=PELL, ou=USA, Date: 2014.08.04.13:19:11 -0500</small>

Five steps of Risk Management: (1) Identify the hazards      (2) Assess the hazards      (3) Develop controls & make decisions  
(4) Implement controls      (5) Supervise and evaluate      (Step numbers not equal to numbered items on form)

4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL
Engage targets	Negligent discharge or weapon malfunction for a M2 .50 Caliber Machine Gun	M	Daily Safety briefs Soldiers will treat weapons as if they are loaded at all times. Weapon systems on safe until instructed to fire	<b>How:</b> conduct safety brief <b>Who:</b> SFC Daly	L
			RSO and MT ensure all vehicle weapon cleared before departure from baseline Medic on site supported by CLS personal	<b>How:</b>  <b>Who:</b>	
			All Soldiers maintain situational awareness	<b>How:</b>  <b>Who:</b>	
	Rounds Impacts outside of range limit/ range fan	H	Range Orientation briefed during daily range safety brief by RSO Range fans clearly marked and visible	<b>How:</b> SCE will clear all weapons <b>Who:</b> SCE	M
			Weapon systems properly cleared before leaving the firing line	<b>How:</b>  <b>Who:</b>	

Additional entries for items 5 through 9 are provided on page 2.

**10. OVERALL RESIDUAL RISK LEVEL (All controls implemented):**

EXTREMELY HIGH     
  HIGH     
  MEDIUM     
  LOW

**11. OVERALL SUPERVISION PLAN AND RECOMMENDED COURSE OF ACTION**

**12. APPROVAL OR DISAPPROVAL OF MISSION OR TASK**       APPROVE       DISAPPROVE

<b>a. Name (Last, First, Middle Initial)</b> Surowiec, Richard J	<b>b. Rank/Grade</b> LTC	<b>c. Duty Title/Position</b> 1-29IN Battalion Commander	<b>d. Signature of Approval Authority</b> 
---	-----------------------------	---	---

**e. Additional Guidance:**

## DELIBERATE RISK ASSESSMENT WORKSHEET

4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL
	Soldier/civilian injured by wildlife	M	All wildlife will be left undisturbed Range and latrines will be inspected for wildlife . Chow and trash areas will be kept clean Identify Soldiers	How: wildlife left alone during safety brief Who: NCOIC/	L
			who are allergic to insects with yellow tape. Ensure Soldiers with allergies are equipped with Epi-Pen	How: SM with allergies will be ID Who: Medic	
	Loss of hearing/ eyesight	M	Daily safety brief will include use of hearing and eye protection on range. Extra hearing protection will be provided	How: ensure SM has hearing and eye pro. Who: NCOIC	L
	Soldier/Civilian Fratricide	H	Daily range brief will include a precise concept of operation SCEs will have positive control of vehicles while moving on range	How: review concept of operation Who: OIC,NCOIC, VC, SCE	M
			Shooter VCs will have positive control of all Weapons Systems while firing. Shooter VC's will gain positive target identification before	How:  Who:	
			any weapon systems fire. NCOIC/OIC Conduct Inspection of medics and CLS personnel; to	How:  Who:	
			include 9-line MEDEVAC procedures	How:  Who:	
Dismounted Maneuver	Soldier/Civilian struck by lightning	M	Suspend all training during lightning storms Safety brief covers Electrical Storm plan Ammo NCO will maintain visual contact with	How: Report accountability to OIC Who: NCOIC	L
			ammo pad Report 100% accountability of personnel to the OIC	How:  Who:	
	Hot/Cold Weather Casualty	H	NCOIC and Medics will monitor the weather conditions and keep OIC and RSO informed of weather situations	How: ID hydration points in safety brief Who: NCOIC and Medics	M
			previous hot/cold weather casualties will be marked with red/blue tape Weather Conditions will be addressed	How:  Who:	
			"in all Safety Briefs Hydration points and immersion tanks will be provided Medics will have ice sheets and CLS bags on hand	How:  Who:	
Maneuver Stryker Vehicle	Soldiers/Civilians injured while in/around combat vehicles	M	NCOIC will identify the hazards and controls during the safety briefing Front and Rear ground guide use as safeties during movem	How: during safety brief ground guide use Who: RSO and NCOIC	L
			movement vehicles on range Horn utilized before lowering ramps3 points of contact while on vehicle Seat belts utilized when necessary	How: RSO will monitor vehicle movement Who: RSO and NCOIC	

## DELIBERATE RISK ASSESSMENT WORKSHEET

4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL
			No personnel standing between vehicles while engines on	How: Who:	
	Vehicle Rollover	H	Adhere to posted speed limits Recon Routes to verify road conditions. All students conduct rollover drills	How: ensure driver is driving at safe speed and all crew conducts crew drills Who: NCOIC	M
	Vehicle strikes another vehicle	M	Ground guides used when maneuvering all vehicles Use of proper hand and arm signals when maneuvering all vehicles	How: ensure all crew are certified with proper hand and arm signal techniques Who: NCOIC	L
			Ensure driver has visual communication with ground guide at all times	How: ensure drivers have visual contact with ground guides Who:	
Ammunition Point Operations	Improper Ammunition DODIC	M	Ammo NCO ensures that the proper ammunition DODIC for the weapon systems being fired was delivered	How: RSO verifies that proper ammunition DODIC has been delivered to range and being stored proper location	L
			Ammo NCO ensures that live ammunition is stored separately from blank ammunition	How: Who:AMMO NCO	
	Fires	M	Ammo point will have a fire extinguisher on hand. No smoking within 50 meters of ammo point.	How: Ammo point inspected by RSO for fire extinguisher Who: Ammo NCO	L
Command and Control	Unauthorized personnel on range	M	Road guards will be placed at the required access points in order to monitor all traffic on and off of the range	How: road guard points briefed during safety brief. NCOIC will place all road guards Who: NCOIC	L
	Injury	M	Medics and CLS qualified personnel on site with CLS bag and MEDEVAC vehicle OIC, NCOIC, RSO and medics have	How: OIC inspects NCOIC, RSO and medical personal for emergency contact info Who: OIC	L
			medical emergency contact information If injury is life-threatening, medical personnel will stabilize the injury and alert MACH for pick-up	How: Who:	
			If injury is not life-threatening, medical personnel will make Soldier as comfortable as possible and alert MACH for pick-up	How: Who:	
	Round impacts outside of range fans	M	Whoever witnesses round impacting outside of range fans will immediately call a cease fire All actions on the range will freeze	How: OIC/RSO will brief all Soldiers on procedures taken if round impacts outside of range fans	L
			RSO verifies where round impacted Weapon system that impacted outside of range fans clears its weapon but leaves weapon	How: spot check Soldiers on procedures taken if rounds impact outside of range fan Who: OIC/ RSO	
			system oriented in the direction upon which it fired All Vehicles clear weapons OIC notifies range control Exercise will not re-commence until I	How: Who:	

## DELIBERATE RISK ASSESSMENT WORKSHEET

4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL
			If injury is life-threatening, medical personnel will stabilize the injury and alert MACH for pick-up	How: Who:	
			If injury is not life-threatening, medical personnel will make Soldier as comfortable as possible and alert MACH for pick-up	How: Who:	
	Round impacts outside of range fans	M	Whoever witnesses round impacting outside of range fans will immediately call a cease fire All actions on the range will freeze	How: OIC/RSO will brief all Soldiers on procedures taken if round impacts outside of range fans	L
			RSO verifies where round impacted Weapon system that impacted outside of range fans clears its weapon but leaves weapon	How: spot check Soldiers on procedures taken if rounds impact outside of range fan Who: OIC/ RSO	
			system oriented in the direction upon which it fired All Vehicles clear weapons OIC notifies range control Exercise will not re-commence until I	How: Who:	
			approved by range control	How: Who:	
				How: Who:	

## DELIBERATE RISK ASSESSMENT WORKSHEET

<b>Risk Assessment Matrix</b>		<b>Probability (expected frequency)</b>				
		<b>Frequent:</b> Continuous, regular, or inevitable occurrences	<b>Likely:</b> Several or numerous occurrences	<b>Occasional:</b> Sporadic or intermittent occurrences	<b>Seldom:</b> Infrequent occurrences	<b>Unlikely:</b> Possible occurrences but improbable
<b>Severity (expected consequence)</b>		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
<b>Catastrophic:</b> <i>Death, unacceptable loss or damage, mission failure, or unit readiness eliminated</i>	<b>I</b>	<b>EH</b>	<b>EH</b>	<b>H</b>	<b>H</b>	<b>M</b>
<b>Critical:</b> <i>Severe injury, illness, loss, or damage; significantly degraded unit readiness or mission capability</i>	<b>II</b>	<b>EH</b>	<b>H</b>	<b>H</b>	<b>M</b>	<b>L</b>
<b>Moderate:</b> <i>Minor injury, illness, loss, or damage; somewhat degraded unit readiness or mission capability</i>	<b>III</b>	<b>H</b>	<b>M</b>	<b>M</b>	<b>L</b>	<b>L</b>
<b>Negligible:</b> <i>Minimal injury, loss, or damage; little or no impact to unit readiness or mission capability</i>	<b>IV</b>	<b>M</b>	<b>L</b>	<b>L</b>	<b>L</b>	<b>L</b>

**Legend:**

**EH** – extremely high risk    **H** – high risk    **M** – medium risk    **L** – low risk

**13. RISK ASSESSMENT REVIEW** *(Required when assessment applies to ongoing operations or activities)*

a. Date	b. Last Name	c. Rank/Grade	d. Duty Title/Position	e. Signature of Reviewer

**14. FEEDBACK AND LESSONS LEARNED**

**15. ADDITIONAL COMMENTS OR REMARKS**



# RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



**Date Submitted:** 9/22/2014

**EMD Number:** 1426604

**Project#:** N/A

**Project Title:** Stryker Qualification

**Description of proposed action:**

Will be conducting Stryker Crew Practice and Qual scenario, will stay on course road only.

**Project Location:**

Ware Range

**Amount, Description, Location of Disturbance/Digging:**

None

**Number of Personnel:**

26

**Type of Ammunition:**

.50 cal Ball/Tracer mix  
Live

**Number/Types of Trees:**

None

**Size of Project Area:**

**Duration of Action:** Start: 10/7/2014

Stop: 9/30/2015

**Proponent:** harley.w.moses

(706)763-9525

**Organization/Unit:** 316th CRgt

**Number/Types of Vehicles:**

Number of vehicles: 6

Types of vehicles: M 1126/HUMVEE/LMTV

No-Vehicles will be going off road.

**DECISION: Concur with conditions**

This Action is adequately covered in the Existing EA titled: 'Ongoing Mission and siting Activities, USAIC, FT. Benning, GA.'

(NA): Training involving LIVE FIRE and tracked vehicles has NO CATEX -- "Ongoing Mission and Siting Activities, USAIC, Ft. Benning, GA."

**REC APPROVED THROUGH 30 SEPTEMBER, 2015**

**Cultural Resources - Archeological**

**None**

Edward Howard (706 545 1898), 9/30/2014

**Natural Resources - RCW**

**Conditions:**

Michael Barron (706 544 7080), 9/23/2014

See attached conditions. Note locations of red-cockaded woodpeckers (RCW) on attached maps. Training restrictions apply. Unit commanders must make sure that all troops know the locations of restricted areas and understand these training restrictions. This is imperative since night training may occur. Boundaries are often hard to see at night, but this is no excuse for violations to occur. Two hour time restriction is for 2 hours once every 24 hour period. Note where digging may not occur. All trenches, fighting positions, etc must be filled in prior to leaving an area. There must be no cutting down or intentional destruction of any pine trees throughout the requested area(s) to include no cutting of pines for camouflage, cover or concealment of any type.

**Noise**

**Conditions:**

Ellis Leeder (706 545 2400), 9/23/2014

This is training operations request for training. If there is any operational noise complaints received, the Environmental Management Division Installation Operational Noise Monitoring Program (IONMP) and or Public Affairs Office (PAO) programs will investigate and then recommending operational noise mitigation actions to the appropriate personnel for the training actions. This 144r must be present at the training site when occupying compartment or ranges.

EMD Number: 1426604

IJO# N/A

Project Title: Stryker Qualification

Hazardous Materials/Waste

Conditions:

Carlos Ariasochoa (706 545 1857), 9/24/2014

**Considerations for Training Exercises:**

Defective, misfired, or otherwise unserviceable munitions must be managed IAW/MCOE Reg.350-19-5-10, Para 9-2 (Proper management of Misfired munitions). All excess, munitions must be returned to the Ammunition Supply Point after the field exercise is completed. Rubbish, empty containers and other waste (including used smoke/C2 canisters) should be removed from the training area. A dud shall not be removed from the range; it will be marked, called into range control and will be properly disposed of by EOD personnel IAW/MCOE Reg. 350-19, 23 Jul 2010.

Any wastes generated must be evaluated for their hazardous characteristics and disposed of in accordance with all Federal, State and Fort Benning Hazardous Waste Regulations. Appropriate precautions must be taken to prevent hazardous material spills. Adequate quantities of spill response supplies must be on hand while work is being performed. If a spill occurs use notification procedures as outlined in the Fort Benning Hazardous Waste Management Plan Chapter 14. Contain and clean up any spill according to guidance provided by the Environmental Programs Management Branch. EPMB provides an 8 hours course covering Hazardous Materials/Waste Management, Hazardous Waste Minimization, Safety, and Pollution Prevention.

CWA - Training

Conditions:

Leah Ropski (706 626 0492), 9/23/2014

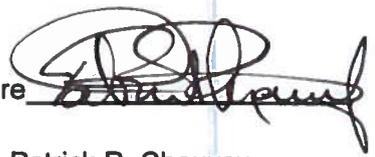
**Environmental Review:** Caution within training areas and motor pools should be taken to protect all nearby waterways (including perennial, intermittent streams and wetlands); as well as ground surfaces and any other sensitive areas in the vicinity of the training areas. Potential spills/releases from this activity that may occur before and/or during the FTX include: 1. Discharge and/or improper disposal of oil or hazardous substances into or upon land, water, or into ground water areas from storage, handling and/or transportation of hazardous materials/waste; 2. Vehicle/equipment/generators leaks; 3. Fuel loading/unloading/refueling operations; 4. Field mess facilities/equipment/operations, and/or 5. Ammunitions /explosives (as applicable, before and/or during the FTX).

**General SPCC Requirements:** Ensure all hazardous materials are properly storage to prevent spill/discharges, to meet safety requirements for storage, and that containers are not exposed to the weather. Have adequate spill response supplies available during exercise for any spills that may likely occur. Use drip pans under vehicles and provide secondary containment for any fueling activities and hazardous material/waste storage. Locate all refueling operations and storage of hazardous materials/waste away from waterways and sensitive areas. See attached section on prevention procedures and CHECKlist (Example Unit/Activity SOP for Training and Deployment) to be used during training exercise to comply with SPCC plan requirements. Ensure all wastewater from field mess equipment/operations particularly those involving oil/grease are collected and dispose properly. Do not discharge any wastewater into storm drains or dispose of oil/grease waste directly into land.

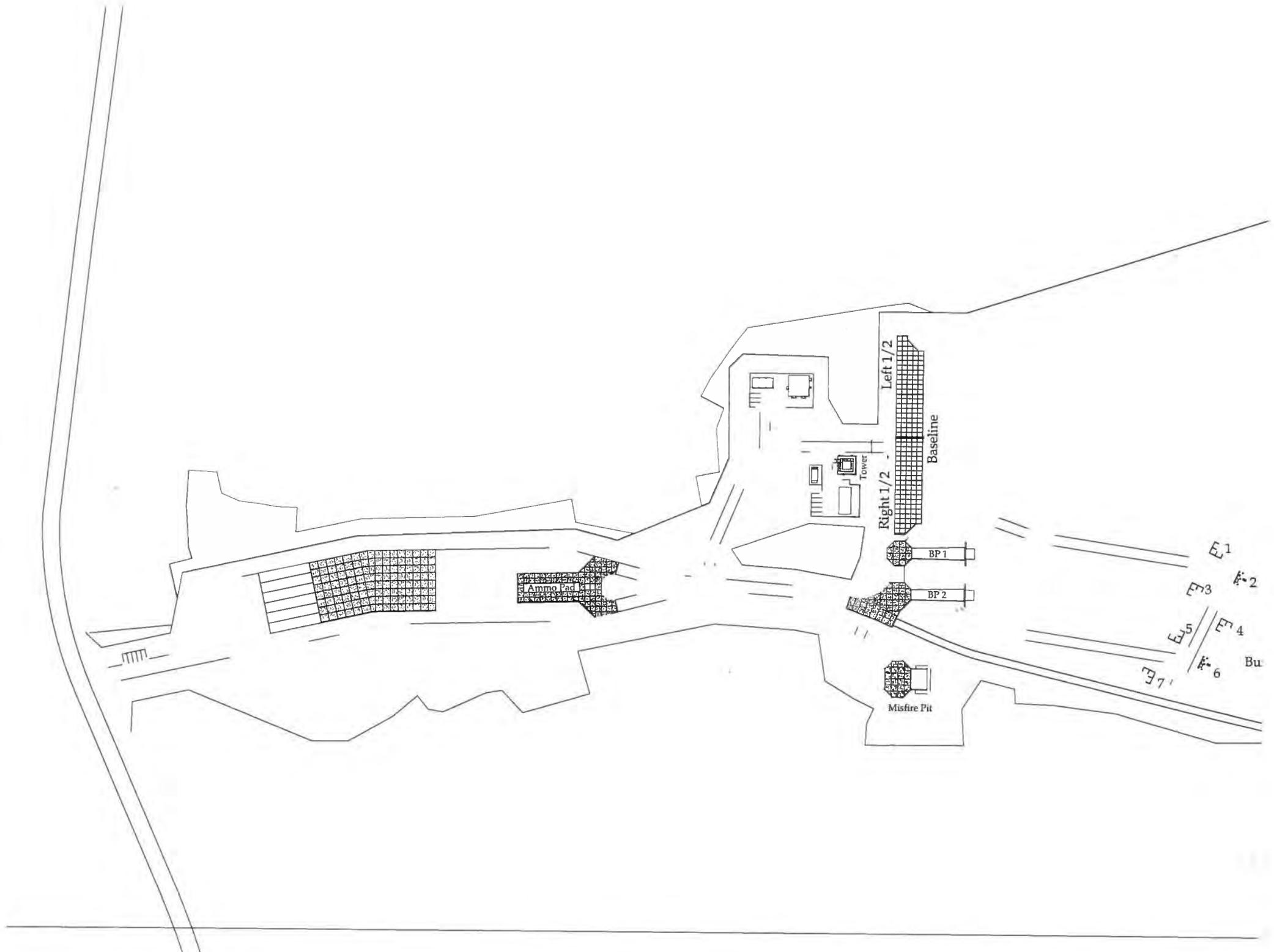
**General ISCP Requirements:** In the event of a spill/discharge – notify Range Control by radio or call 544-6291, and they will notify E-911 for Fire Department/HAZMAT Team assistance and/or notification of the EMD office (Spill Beeper 706-317-6584). As appropriate, and if personnel are trained – REACT to minimize spill damages. Submit a spill report to the EPMB Spill Program Manager (use Spill Response Report attached). All spills reaching navigable water must be reported immediately. The unit is responsible for the final cleanup of any spill during this exercise. Coordination with this office is required for clearance of the site.

Signature   
John E Brown  
NEPA Program Manager

Date 1 Oct 2014

Signature   
Patrick R. Chauvey  
EPMB Chief

Date 01 OCT 2014



E1  
E2  
E3  
E4  
E5  
E6  
E7  
Bu

06 018

98

K46

500m

1000m

1500m

Area For Screening Panel Location

M1

M2

2000m

2200m

97

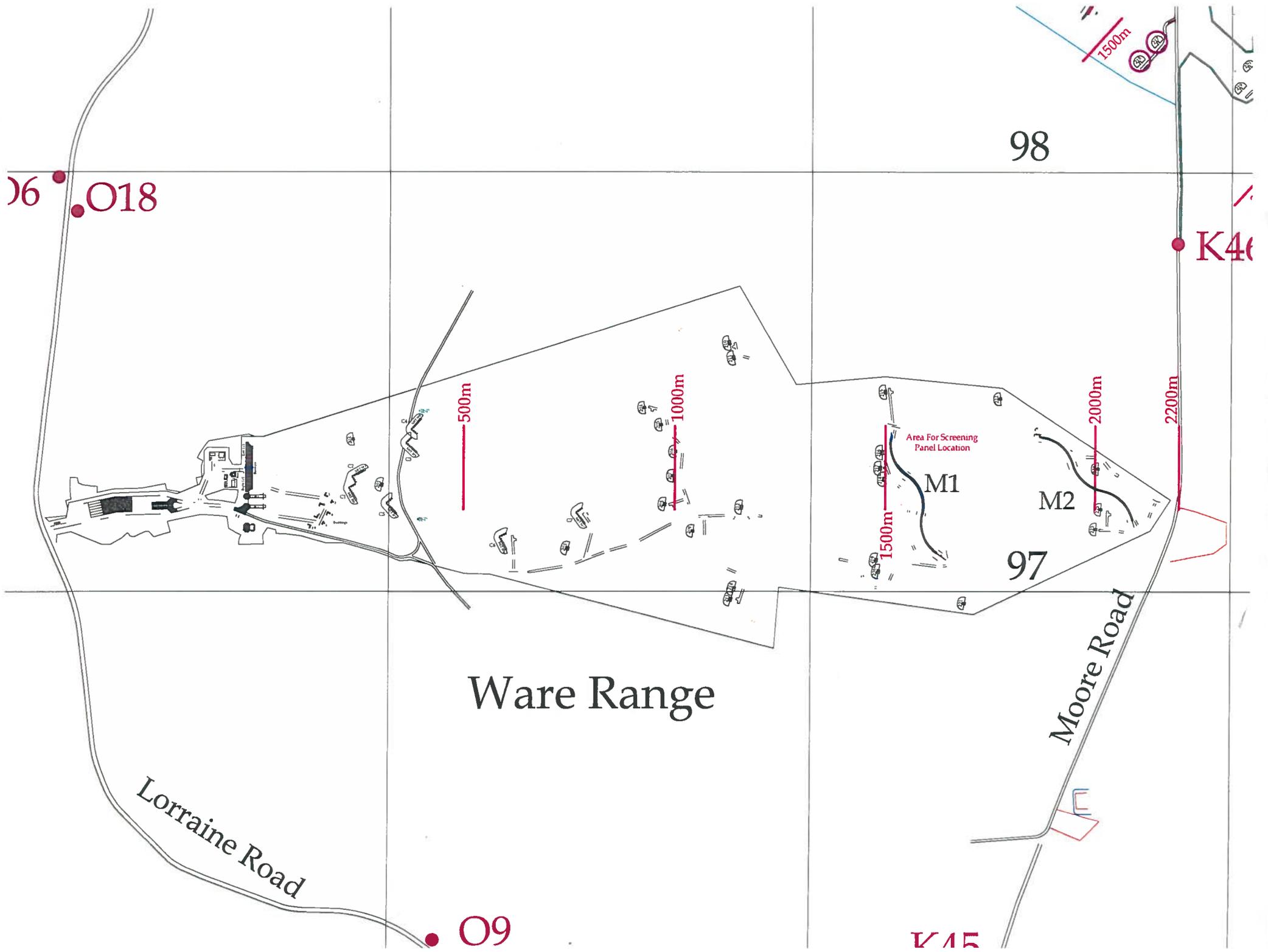
Ware Range

Lorraine Road

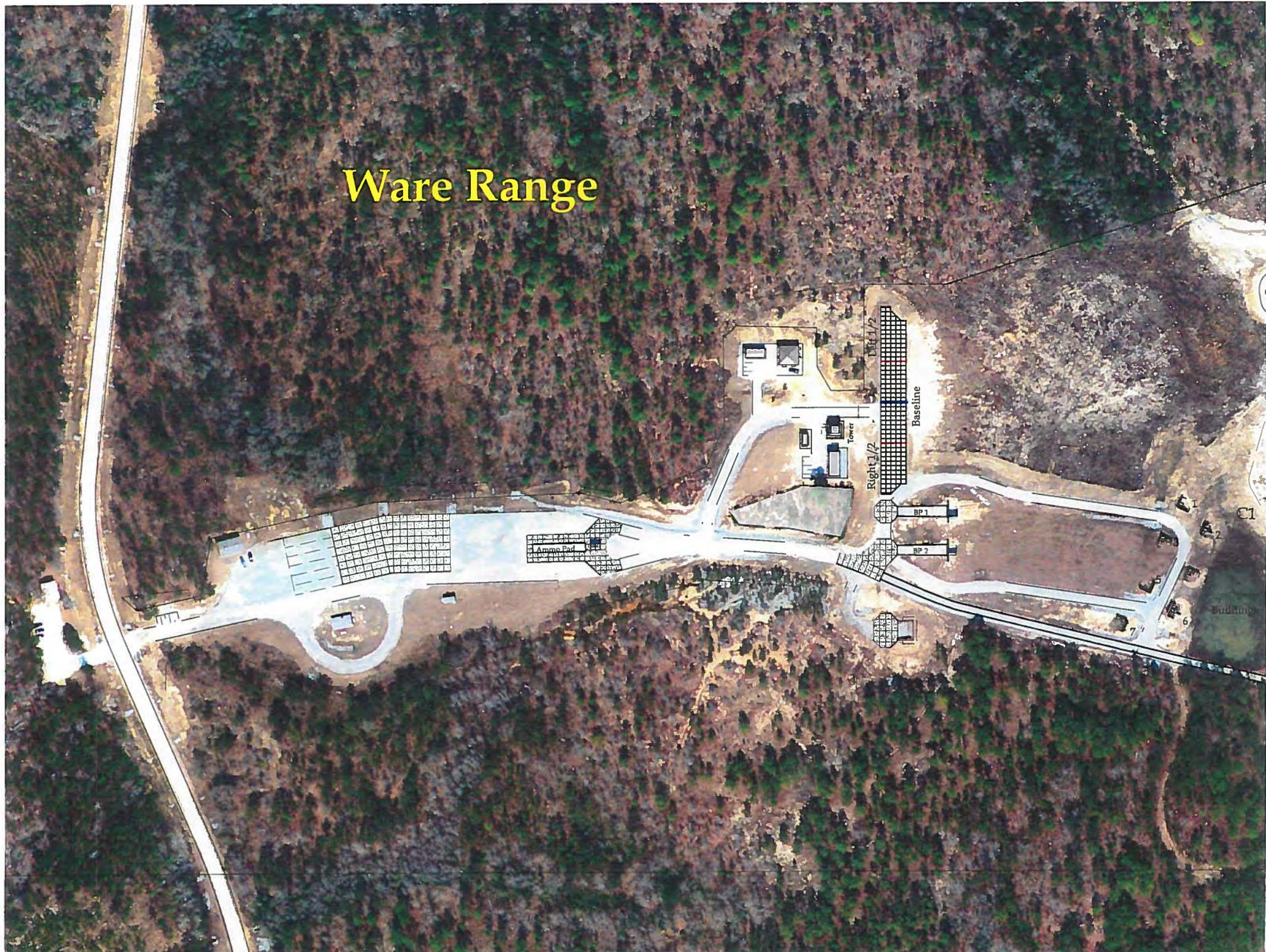
Moore Road

09

K45



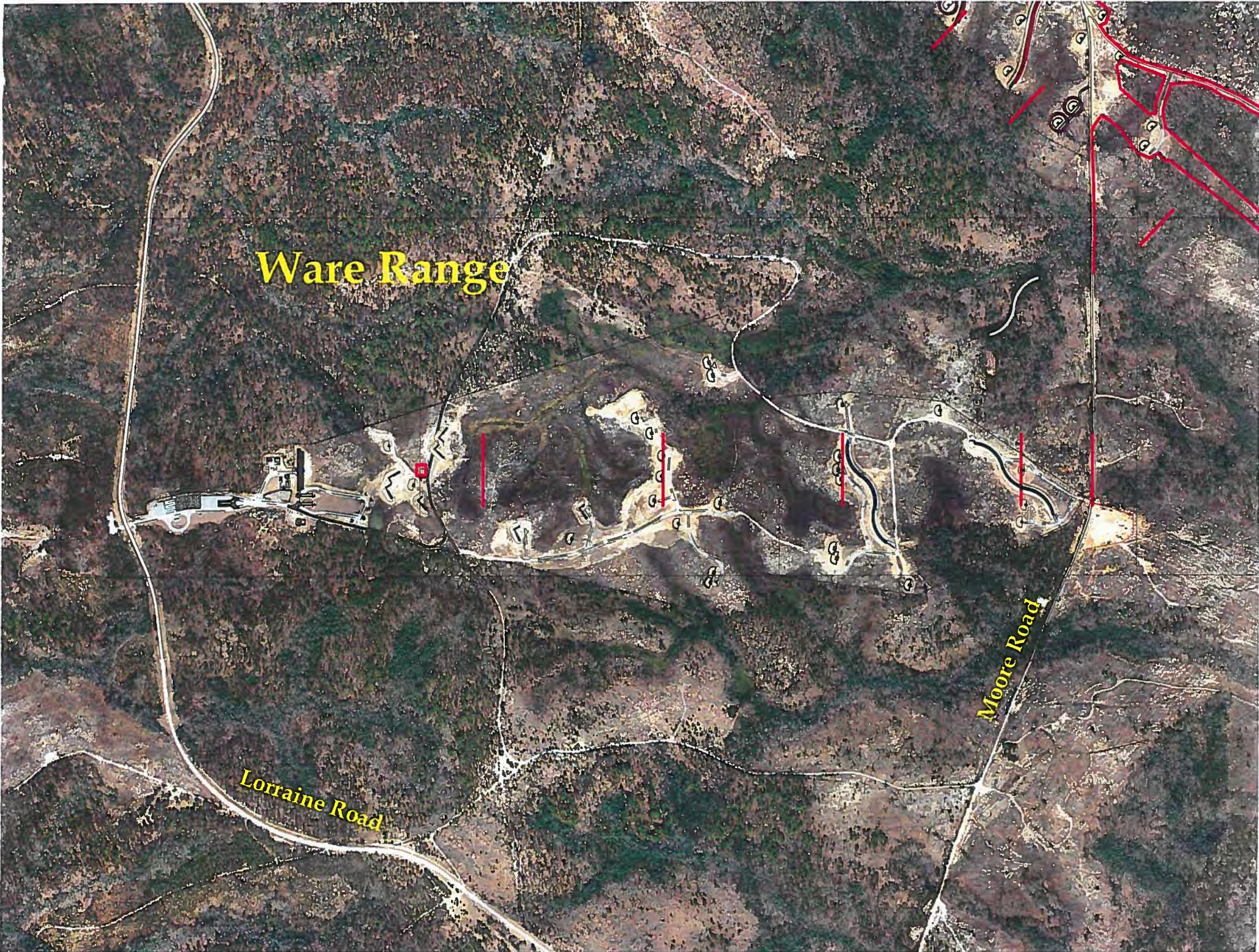
# Ware Range

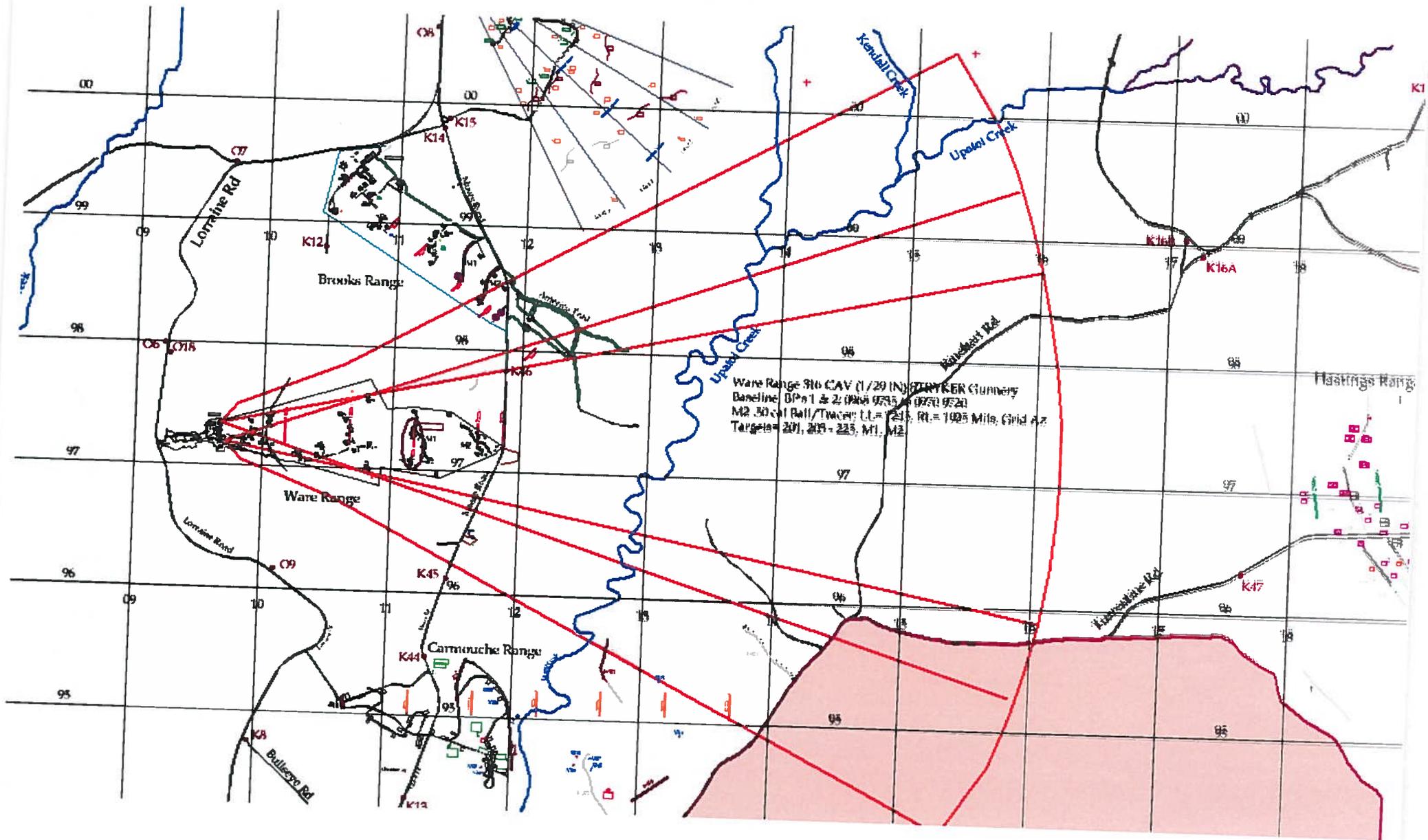


**Ware Range**

**Lorraine Road**

**Moore Road**





Lorraine Rd

Brooks Range

Ware Range

Carmouche Range

Hastings Range

Boushock Rd

Kennesaw Rd

Kendall Creek

Upatoi Creek

Lorraine Road

Bulleyn Rd

O8

K14

K15

K12

O6

K16

O9

K45

K44

K12

K16

K16A

K47

K1

00

09

10

11

12

13

14

15

16

17

18

00

96

97

96

95

96

97

96

95

96

97

96

95

00

09

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

00

01

02

03

04

05

06

07

08

09

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

00

01

02

03

04

05

06

07

08

09

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69