

TRANSMITTAL, ACTION AND CONTROL

For use of this form see MCoE Memo 25-52; the proponent is SGS

1. SGS LOG:	2. IN SGS:	3. OUT SGS:	4. DATE PREPARED:
			21/03/2012

5. SUBJECT: Use of DMPC

6. ACTION OFFICER/OFFICE SYMBOL/PHONE NUMBER:	7. DIRECTOR'S/COMMANDER'S SIGNATURE:
	

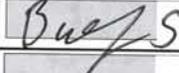
<input checked="" type="checkbox"/> SIGNATURE	<input checked="" type="checkbox"/> APPROVAL	<input type="checkbox"/> INFORMATION
<input type="checkbox"/> SGS <input type="checkbox"/> DEP CofS <input type="checkbox"/> Garrison CSM <input type="checkbox"/> USAIS CSM <input type="checkbox"/> USAARMS CSM <input type="checkbox"/> MCoE CSM <input type="checkbox"/> CDID <input type="checkbox"/> GC <input type="checkbox"/> CofS <input type="checkbox"/> DCG <input type="checkbox"/> Comdt, IN School <input type="checkbox"/> Comdt, AR School <input type="checkbox"/> CG		

1. PURPOSE: Conduct Platoon Level Live Fire Exercise

2. RECOMMENDATION: Director, Plans, Training, Mobilization and Security signs the Packet Log#3-1-12

3. DISCUSSION:

8. COORDINATION/APPROVAL

OFFICE	ACTION	SIGNATURE	NAME AND DATE
Survey	for Concur/commit	 / Click to Approve	21 MAR 12
Safety		 / Click to Approve	
Range Operations	Concur	 / Click to Approve	Bradley S. Tesch 30 MAR 12

STAFF REMARKS: (Command Group Use Only)	APPROVAL AUTHORITY APPROVED:  / Click to Approve DISAPPROVED:  / Click to Approve NOTED:  / Click to Approve
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FIRING/NONFIRING DATA

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

Log 3-01-12

TO: Chief,
Range Division,
Directorate of Plans, Training, Mobilization and Security
Fort Benning, GA 31905

Date: 18-20 MAR 12
Range: DMPRC
Title: 2-11 Infantry Battalion Platoon Live Fire Exercise
Problem No:

THRU: 199th IN BDE
6506 Indianhead Road
Fort Benning, GA 31905

FROM: 2-11 IN REGT
260 Vibbert Avenue
Fort Benning, GA 31905

SECTION I, TYPE OF TRAINING

a. Live Fire b. Non-live Fire CP/Controller Coordinates: GA 0983 8873

SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS

Coordinates	Type	Model/DODAC	Size of Charges
See Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure	BSee Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure
See Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure
See Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure
See Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure

SECTION III, WEAPONS/AMMUNITION REQUESTED

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
See Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure
See Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure	See Weapon/ Ammo Enclosure
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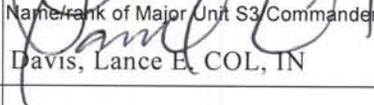
SECTION IV, LIVE FIRE EXERCISES Attach the following:

SECTION V, NON-LIVE FIRE TRAINING

- Scenario of training to be conducted:
- Sketch of area:
- Risk Assessment:
- Attach FB Form 350-19-2-E-R if Mortar or artillery is being fired:

- Training area(s) to be occupied:
- Scenario of training to be conducted:
- Sketch of area(s) to be occupied:
- Risk Assessment:

Name/rank of requesting officer:
Pye, Brandon A. CPT, IN 

Name/rank of Major Unit S3 Commander:
Davis, Lance E. COL, IN 

SECTION VI, FOR RANGE DIVISION USE

DATE: *30 MAR 12*

TO: 2-11 IN REGT
260 Vibbert Avenue
Fort Benning, GA 31905

FROM: Range Division,
Directorate of Plans, Training,
Mobilization and Security
Fort Benning, GA 31905

- a. Roadblocks to be closed:
- b. Road(s) to be closed/road barrier locations:
- c. Remarks:
- d. This approval expires: *29 MAR 14*

See Road Block Enclosure
See Road Guard Enclosure

Chief, Range Division
Directorate of Plans, Training, Mobilization and Security



DMPRC 2-11 Platoon Live Fire Exercise (Log #3-01-12) Weapons/Ammo Enclosure, 01 March 2012 (Page 1 of 2)

Firing Positions	Weapons	Ammunition	Left Limit, Mils Grid Azimuth	Right limit, Mils Grid Azimuth
BP 3A: GA 1034 8928	M1 Tank, M2 M240	120mm (M831/M865), .50 cal Blank/Ball/Tracer 7.62mm Blank/Ball/Tracer	0775 0680	1035 1300
BP 4A: GA 1047 8908	M1 Tank, M2 M240	120mm (M831/M865), .50 cal Blank/Ball/Tracer 7.62mm Blank/Ball/Tracer	1120 0960	1440 1395
MB 3-1: Start GA 1035 8925 to Stop GA 1060 8933	M1 Tank, M2 M240	120mm (M831/M865), .50 cal Blank/Ball/Tracer 7.62mm Blank/Ball/Tracer	0880 0725	1260 1235
MB 4-1: Start GA 1048 8905 to Stop GA 1067 8910	M1 Tank, M2 M240	120mm (M831/M865), .50 cal Blank/Ball/Tracer 7.62mm Blank/Ball/Tracer	1020 1060	1425 1355

DMPRC 2-11 Platoon Live Fire Exercise (Log #3-01-12) Target List, 01 March 2012

Firing Positions	Weapons	Ammunition	Targets
BP 3A: GA 1034 8928	M1 Tank, M2 M240	120mm (M831/M865), .50 cal Blank/Ball/Tracer 7.62mm Blank/Ball/Tracer	M101, SA4. T: 1, 8, 36.
BP 4A: GA 1047 8908	M1 Tank, M2 M240	120mm (M831/M865), .50 cal Blank/Ball/Tracer 7.62mm Blank/Ball/Tracer	M301, SA63. T: 4, 13, 15.
MB 3-1: Start GA 1035 8925 to Stop GA 1060 8933	M1 Tank, M2 M240	120mm (M831/M865), .50 cal Blank/Ball/Tracer 7.62mm Blank/Ball/Tracer	M201, SA7. T: 8, 36.
MB 4-1: Start GA 1048 8905 to Stop GA 1067 8910	M1 Tank, M2 M240	120mm (M831/M865), .50 cal Blank/Ball/Tracer 7.62mm Blank/Ball/Tracer	M301, SA63. T: 4, 15.

NOTE, The following Pyrotechnics/Simulators will be used: Proj Grnd Burst (L594), Booby Trap (L600), Hand Grenade (L601), Artillery Flash (L602). Qualified OC's will control the use, placement and removal of all Pyrotechnics/Simulators.

DMPRC 2-11 Platoon Live Fire Exercise (Log #3-01-12) Weapons/Ammo Enclosure, 01 March 2012 (Page 2 of 2)

Firing Positions	Weapons	Ammunition	Left Limit, Mils Grid Azimuth	Right limit, Mils Grid Azimuth
SBF1 : GA 1132 8953 to GA 1133 8952	M4/M249, M203 M240B	5.56mm Blank/Ball/Tracer, 40mm TP/SMK 7.62mm Blank/Ball/Tracer	0475	1120
Blocking Position: GA 1175 8965 to GA 1177 8964	M4/M249, M203	5.56mm Blank/Ball/Tracer, 40mm TP/SMK	0345	0480
Local SBF: GA 1149 8972 to GA 1150 8972	M4/M249, M203	5.56mm Blank/Ball/Tracer, 40mm TP/SMK	0165	0350
Assault Trench #1: GA 1150 8983	M4/M249, M203	5.56mm Blank/Ball/Tracer, 40mm TP/SMK	0800	1400

DMPRC 2-11 Platoon Live Fire Exercise (Log #3-01-12) Target List, 01 March 2012

Firing Positions	Weapons	Ammunition	Targets
SBF1 : GA 1132 8953 to GA 1133 8952	M4/M249, M203 M240B	5.56mm Blank/Ball/Tracer, 40mm TP/SMK 7.62mm Blank/Ball/Tracer	Target Set 1, Target Set 2 (T12), Target Set 3.
Blocking Position: GA 1175 8965 to GA 1177 8964	M4/M249, M203	5.56mm Blank/Ball/Tracer, 40mm TP/SMK	Target Set 4.
Local SBF: GA 1149 8972 to GA 1150 8972	M4/M249, M203	5.56mm Blank/Ball/Tracer, 40mm TP/SMK	Target Set 1 (East Side Only).
Assault Trench #1: GA 1150 8983	M4/M249, M203	5.56mm Blank/Ball/Tracer, 40mm TP/SMK	Trench 1 (North-East Leg Only. See Sketch).
NOTE, The following Pyrotechnics/Simulators will be used: Proj Grnd Burst (L594), Booby Trap (L600), Hand Grenade (L601), Artillery Flash (L602). Qualified OC's will control the use, placement and removal of all Pyrotechnics/Simulators.			



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

27 March 2012

MEMORANDUM FOR Commander, 2/11th IN Bn., Attn: CPT B. Pye, Fort Benning, GA 31905
SUBJECT: 2/11th IN Bn. Platoon Live Fire at DPMRC Concept and Safety Review

1. References.

- a. 2/11th IN Bn. Platoon Live Fire at DPMRC, 22 March 2012.
- b. Army Regulation 385-10, The Army Safety Program, 24 August 2007
- 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, 30 January 2012
- h. Field Manual 5-19, Composite Risk Management, August 2006
- i. MCoE Regulation 350-19, Range and Terrain Regulation, 23 July 2010

2. Document received on 27 March 2012.

3. Concur w/comment.

- a. LMTVs or commercial stake bed trucks will be used in lieu of tactical platforms, i.e. M2A2 or Stryker's, to move Soldiers.
- b. This is a reoccurring event and evolution of the scenario is expected to occur.
- c. This event, while commanded by 2/11th IN Bn Commander, will include Soldiers and platforms from 316th CAV.

ATZB-SO

SUBJECT: 2/11th IN Bn. Platoon Live Fire at DPMRC 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



JILL E. CARLSON

Director, MCoE/USAG Safety



DEPARTMENT OF THE ARMY
2ND BATTALION, 11TH INFANTRY REGIMENT
6649 VIBBERT AVENUE
COLUMBUS GA 31905-4475

MEMORANDUM

ATSH-TPB-C

22 March 2012

MEMORANDUM FOR Chief, Range Operations, Fort Benning, Georgia, 31905.

SUBJECT: Scenario for DMPRC Section and Platoon LFX

1. PURPOSE: To establish a Concept of Operations to be used for 2-11 IN REGT Platoon Live Fire Exercise.

2. APPLICABILITY: The purpose of this memorandum is to outline the scenario for the Section/Platoon Live Fire Exercise, conducted on the DMPRC. The information is provided in accordance with MCOE Regulation 350-19 and will train and evaluate sections and platoons on the collective tasks as well as individual tasks listed below. This training will gear sections and platoons towards future combat operations. 2-11 IN Leaders will be given sufficient time to prepare and formulate a plan for the training exercise (OPORD) which will outline and give a detailed description of their mission, task organization, execution, direct fire control measures, and other safety considerations. Each platoon will conduct rehearsals in the form of key leaders, back briefs, TEWT, leader's rock drill, specialty team rehearsal, and a blank fire exercise on the exact range scenario.

3. REFERENCES:

- a. Army Regulation 385-63 and DA PAM 385-63, Range Safety
- b. Army Regulation 350-1, Army Training
- c. MCoE Regulation 350-19, Range and Terrain Regulation
- d. TM 9-1300-206, Ammunition and Explosives Standards
- e. FM 3-20.21, HBCT Gunnery Manual
- f. ARTEP 7-7J, MTP
- g. ARTEP 7-7J, Drill
- h. FM 23-9, M16/M4
- i. FM 23-14, M249 Light Machine Gun
- j. FM 3-22.68 Crew-Served Machine Guns

k. FM 3-23.30, Grenades and Pyrotechnics

4. SCHEDULING: Each unit / activity scheduling the DMPRC will prepare and submit the following documents to Range Operations, DPTMS:

a. DA Form 7566, Risk Management Worksheet

b. FB Form 350-19-1-E-R, scenario, sketches, FB Form 144, and any specific enclosures as required.

c. Training guidelines: All training will be conducted IAW this memorandum, applicable references listed in paragraph 3, and FB 350-19-1-E-R. Units are responsible for developing and submitting a new range packet if requested training deviates from approved range packets.

5. ADMINISTRATIVE: The training unit shall clear DMPRC Range Operations Center(ROC) in accordance with local policies and procedures. Units will be required to clean all buildings occupied during the training event. This will require that the unit supply the following: brooms, mops, buckets, and appropriate cleaning supplies. Coordination will be made with ROC personnel.

a. All range fires will be suppressed and reported to Range Control IAW MCoE Regulation 350-19.

b. Using units are responsible for clearing all brass and ammunition from the range and all firing lanes. Brass and ammunition are to be policed during daylight hours only, after firing has ceased and under supervision.

c. A red range flag will be provided to the using unit by DMPRC ROC. The range flag will be displayed prior to live-fire training and must be returned to DMPRC ROC prior to departing the range.

d. Using units are responsible for providing a fire detail. These personnel will be used in case of a fire downrange. After placing the range on check fire through Range Control, all range fires will be suppressed and reported to Range Control IAW MCoE regulation 350-19. The cease fire will remain in effect until cleared through Range Control.

e. Using unit will maintain continuous contact with Range Control at all times. If communications are lost the unit will go into a self induced check fire until communications are restored.

f. 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 USAIC 40-2. Landing zone for MEDEVAC aircraft will be established prior to use and will be marked appropriately. Range Control will be notified in this event. The cease fire will remain in effect until cleared through Range Control.

g. When a malfunction is experienced, the OIC/RSO will suspend all firing and immediately notify Range Control. The weapons and all components and ammunition involved will remain in place. The cease fire will remain in effect until cleared through Range Control. An investigation is required and will be conducted by the ammunition and weapons inspection personnel and DOL.

6. REQUIREMENTS: A specific operation 350-19-1-E-R / scenario package will be prepared by the units for the DMPRC and approved by Chief, Range Operations. All supporting documents, i.e. regulations, field manuals, TMs, etc. with an approved 350-19-1-E-R / scenario package will be onsite. All visiting personnel (military) will also be directly controlled by the OIC / RSO. Prior to training, all personnel will be given range orientation / safety briefing, to include location of dud areas, medical procedures, loading and clearing weapons, misfire procedures, emergency cease fire signals, etc. Only weapons / ammo listed on the approved FB Form 350-19-1-E-R / scenario package will be allowed on the range. Prior to and after training, an ammo / weapons check will be made to ensure no individual or vehicle has any unauthorized ammo/ weapons. Prior to vacating the range, the using unit will ensure the range is cleared of all refuse generated (i.e. pallets, ammo boxes and food packaging). Any damage or malfunction must be reported in writing to the Chief of Range Operations. Approved hearing protection will be worn. Meals will only be eaten at the approved area and this area will be cleaned after use. A detailed briefing will be given by the OIC/RSO to all personnel prior to training at the DMPRC. This briefing will include the FB Form 350-19-1-E-R, daily risk management worksheet and a detailed safety briefing.

7. MEDICAL: Medical personnel and equipment on site will be IAW unit SOP and risk management worksheet risk level for the training conducted. MEDEVAC will be IAW MCoE Regulation 350-19. All incidents will be reported to Brigade HQ and Range Control. FLA will be located IAW Commander/OIC guidance and not adjacent to the mess area. A FLA with two medics will be on site during all live fire exercises and a CLS will be present for all dry and blank fire iterations.

8. VEHICLE CONTROL: POV and wheeled military vehicle parking is located in the vicinity of DMPRC Operations building. (Located Vic GA 098 887)

9. AMMO POINTS: There will be an ammo point established on DMPRC. No open flames will be allowed within 50 feet and two 10lb bicarbonate fire extinguishers will be available at all times at the ammunition point. Ammunition Non-Commissioned Officer will control issue of live ammunition and monitor at all times. All ammunition will be issued and turned in to the Ammunition NCO and logged. Ammo NCO will be Ammo Handler certified. Ammunition will be separated at all times by DODIC.

a. Ammunition:

(1) The ammo NCO will sign for all blank and live ammunition.

- (2) The blank and live ammunition will be separated.
- (3) The ASPs will be secured with triple strand concertina wire and 2 guards.
- (4) The ASP issues to Soldiers only enough ammunition for one iteration.
- (5) Each Soldier will return all unused ammo at the end of their iteration to the ASP.
- (6) Blank Firing Adapters will be used during all blank firing iterations and removed prior to live fire. This will be confirmed before every iteration by the range cadre.
- (7) There will be an ammunition “shake down” before and after every iteration.
- (8) 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) If in any circumstances a round fired by the vehicles and/or dismounted elements goes out of sector the OIC, RSO, Safety personnel, Master Gunners will immediately call “Cease Fire”, notify Range Control and conduct the necessary steps to locate the round(s).
- (10) If Soldiers and/or Range Cadre finds any unexploded ordinance or DUDs, they will immediately cease fire, contact Range Control and await EOD. The cease fire will remain in effect until cleared through Range Control before training can resume.

10. OPENING OF RANGE: Tasks for opening the range and occupying the site.

- a. The unit will have in its possession the approved 350-19-1-E-R, overlays, approved RFMSS Request summary, this concept document, and unit risk assessment worksheet before occupation of the DMPRC. The OIC will call in to range control and request permission to occupy the range complex for which the unit is scheduled. Appropriate overlays will be posted upon arrival. The OIC and RSO will receive a briefing from the DMPRC ROC.
- b. The unit will draw appropriate communication security (COMSEC), and ensure that all Force XXI Battle Command Brigade and Below (FBCB2) equipped platforms are configured properly, the correct COMSEC has been loaded and the vehicle has achieved connectivity to the DMPRC ROC.
- c. The unit Master Gunner or representative will verify that the scenario data at the range complex is correct and in accordance with (IAW) the enclosed approved target list. They will also provide a final battle roster and firing order.
- d. M1A2 tanks and stakebed trucks will move to the designated vehicle instrumentation area adjacent with range operations center on Hour Glass Road. The Instrumentation Specialists will

install and test all instrumentation and other equipment that needs to be attached to the participating platforms/personnel. To prevent injury or damage to equipment, at no time, are unit personnel to install, remove, adjust or otherwise tamper with the Instrumentation or video devices on the vehicle. If a piece should fail to function, the instrumentation on the vehicle must be checked out by qualified range personnel. Once a piece of equipment is installed on a unit, it becomes virtually 'tied' to that unit for the duration of the run or until it is removed by range personnel.

e. The Crew Evaluators will receive orientation training on the Crew Evaluator Workstation (CEWS) and instrumented after action review (IAAR) systems. They will also have the opportunity to assign user-defined events to certain keys on the execution control (EXCON or system control (SYSCON workstation keypad. Any scenario action can be a user-defined event. This is also where the Unit IAAR templates can be refined for the training table. These will be IAW the enclosed approved target list.

f. The Master Gunner will proof the range before firing.

g. The unit leadership must assign personnel to perform special duties such as road guards and fire fighting details IAW this memo, approved 350-19-1-E-R guard listing and applicable Fort Benning regulations.

11. CONDUCT OF EXERCISE: Tasks for conducting exercise follow:

a. The OIC:

(1) Controls exercise and ensures Vehicles will only fire at approved 350-19-1-E-R target listing

(2) Maintains efficient throughput

(3) Maintains required communications

(4) Calls Cease Fire, notifies higher HQ and Range Operations of any incident

b. The RSO:

(1) Supervises all details

(2) Controls the movement of vehicles and personnel

(3) The weapons system-certified Safety Officer or Safety NCO

(4) Ensures that the crew handles misfires IAW safety regulations

(5) Observes for any safety violations

(6) Performs PCIs prior to each iteration

(7) Supervises MEDEVAC rehearsals with FLA and Medics

(8) Ensures Weapons Systems Remain down range at all times while negotiating the range.

(9) Clears each firing vehicle at end of each exercise in designated area ensuring that weapon systems are oriented in a safe direction down range during clearing process.

(10) Ensures Vehicles will only fire at approved 350-19-1-E-R target listing.

c. The Master Gunner:

(1) Ensures the range adheres to the appropriate gunnery table.

(2) Ensures that crews boresight and zero tanks correctly (from approved firing points at approved targets).

(3) Conducts onsite remedial training as needed.

(4) Supervises Vehicle Crew Evaluator.

(5) Helps safety personnel clear weapons when required.

(6) Helps maintenance personnel identify and correct malfunctions.

(7) Helps Commander determine and verify alibi conditions.

(8) Ensures Vehicles will only fire at approved 350-19-1-E-R target listing.

12. CLOSURE OF THE RANGE:

a. The OIC:

(1) Notifies range control that firing has terminated

(2) Debriefs unit personnel

(3) Ensures vehicle crews adhere to approved task matrix/ scenerio during firing event

(4) Ensures clearing of the range and training areas follows local regulations and SOP

b. The RSO:

(1) Supervises ammunition and target details

(2) Ensures range facilities have been policed

c. The Master Gunner:

(1) Updates DA Form 2408-4 for each vehicle

d. The ammunition NCOIC:

(1) Ensures that only authorized personnel remove munitions from range

(2) Prepares residue certificates required by ammunition supply point

e. Range Safety Officer (RSO) will brief and ensure compliance on the following task:

(1) All Soldiers are safety officers. Anyone observing an unsafe act will immediately call for a cease fire.

(2) All weapons will be discharged downrange and within the designated limits.

(3) All weapons will remain on safe unless actively engaging a target

(4) All Soldiers must practice muzzle awareness and aim their weapon on a target they intend to shoot.

(5) If the squad does not safely complete the blank fire iteration they will be re-trained on the task and will fire another blank fire in order to shoot the live fire.

13. TANK VEHICLE FLAGS: Vehicles will display appropriate flags to show the vehicle weapons and ammunition status. The following procedures apply:

a. Displays Green flag: Vehicle has no ammunition on board, weapons on safe.

b. Displays Green and Red flag: Vehicle has ammunition on board, weapons on safe.

c. Displays Red flags: Ammunition on vehicle with weapons loaded, preparing to negotiate course with electrical and manual safeties disengaged.

d. Displays Yellow and Red flags: Vehicle has experienced a malfunction conducting maintenance.

14. EXECUTION OF THE EXERCISE:

a. General. The 2-11 IN Regiment, will be conducting a LFX on the Digital Multi Purpose Range Complex (DMPRC) in five (5) phases:

- (1) Prepare for Combat
- (2) Movement
- (3) Isolation
- (4) Assault
- (5) Consolidation and Reorganization.

b. The live fire exercise involves fire and maneuver into an objective area with the incorporation of the various combat enablers. The OIC for this operation will be the Battalion Commander or a Field Grade Officer in his absence. For the purpose of this operation, 2-11 IN will ensure that the platoons are organized to facilitate the training objectives. All personnel and vehicles will draw ammunition according to their respective ammunition type (.50 Cal, 120mm TP-T, TPDST, 7.62mm and 5.56mm) at the ammo point. Vehicle Commanders will ensure that their vehicles are on electrical and manual safe while uploading ammunition at their respective BP's and on electrical safe while moving down range and not engaging targets. No ammunition will be present on any vehicle or personnel during the dry run portion. A weapon and ammunition check will be performed prior to each iteration. Before the tank sections and infantry platoons can advance to live fire tables, they have to meet the safety requirements and certification criteria set forth and enforced by the Brigade Commander, Battalion Commanders, S-3, and Master Gunners. Each section and/or platoon must complete and successfully pass a dry and blank-fire exercise before advancing to the live-fire. All firing points and/ or maneuver boxes listed on the weapons/ammo enclosure for each lane will and can be utilized providing that they meet the requirements of Range Control and the DMPC. Upon Completion of the LFX all vehicles will place their weapons on electrical and manual safe and proceed along the course road to the clearing pit , with all weapons pointed up/down range. Once each vehicle has been cleared they will exit the designated clearing area and be given the go-ahead to move off the range.

(1) Phase 1- Prepare for combat. This phase begins with the Platoon leadership receiving the WARNO and ends with the Tank section in their respective BPs and the Infantry Platoon loaded on to the vehicles (LMTV). The Platoon will receive the OPORD and will be given adequate time to formulate a tactical plan. They will begin the planning process while conducting specialty team rehearsals. The platoon leader will then deliver his platoon OPORD with an OC and Range Cadre present. The OPORD and key leader back-briefs/ rehearsals will take place in areas designated by the Company Commander. This phase ends with Tank 1 in BP-3A and Tank 2 in BP-4A and the Infantry Platoon mounted in their respective LMTV at the AA (GA 1004 8934).

(2) Phase 2- Movement. This phase begins with the vehicles in their respective BPs and the Infantry Platoon mounted in the AA and ends with Tank 2 at PL Alabama and the maneuver platoon at PL Texas. All weapons systems will be on safe and all units will report when "REDCON 1". All vehicles will remain on electrical safe until an Identifiable Enemy Target is

presented (see target list). **FIRST ENGAGEMENT:** Tank 1 (BP3A) and Tank 2 (BP4A) will conduct a simultaneous defensive engagement from their respective BPs, engaging with 1rd each (see target list). Once both Tanks have engaged with 1rd, they will then immediately put all weapons on safe and report BDA (see maneuver sketches). **SECOND ENGAGEMENT:** Tank 1 will move from BP 3A to the start of the MB 3-1. Once at MB 3-1, Tank 1 will then report front line trace at LD Oregon. Tank 1 will then begin movement along Lane 3 and engage one truck target with the main gun and one troop target with a machine gun. Tank 1 will continue to move along Lane 3 to the end of MB 3-1 at PL Texas (see target list). Once at PL Texas, Tank 1 will clear and place all weapon systems on electrical and manual safe (keeping all weapons systems oriented downrange), report phase line and BDA. Tank 2 remains in BP 4A and Infantry Platoon moves mounted to CP 1 (GA 1026 8923) (see maneuver sketches). **THIRD ENGAGEMENT:** Tank 2 moves from BP 4A along Lane 4 to the start of MB 4-1 and engages one truck target with main gun and one troop target with machine gun (see target list). Once at the end of MB 4-1, Tank 2 will report front line trace at PL Texas. Infantry Platoon will then move to CP 2 (GA 1041 8900). Tank 2 will then cross PL Texas along Lane 4 and continue to move to PL Alabama. Once Tank 2 is at PL Alabama it will safe and clear all weapons systems and report phase line and BDA. Once Tank 2 crosses PL Texas, the Infantry Platoon will move mounted from CP 2 (Lane 4) to PL Texas and report its front line trace. Tank 1 is conducting over watch from PL Texas (see maneuver sketches).

(3) Phase 3- Isolation. This phase begins with the establishment of the Tank 2 over watch position and ends with a blocking position established at the intersection of PL Florida and PL Gators. **FOURTH ENGAGEMENT** Tank 2 will move from PL Alabama and establish an over watch position (GA 11257 89450). Once Tank 2 is over watching OBJ Ravens, the Infantry Platoon will move mounted from PL Texas to the dismount point (GA 11167 89355) located at PL Alabama. The weapons squad will then establish the SBF 1 (GA 1132 8953) with three M240Bs and nine personnel and begin engaging targets between PL Gators and PL Gamecocks, (target set 1-3, LL: 0475 mil RL: 1120 mil). Once SBF 1 is set and has established fire superiority on the objective, the rest of the Platoon will maneuver dismounted around to the south of M301 to CP 3 (GA 1162 8940). Once at CP 3, SBF 1 will shift fire to target set 1 and 2 (RL: 0865 mil). When shift fire is confirmed, one squad will move at 30 degrees to set a blocking position (L: GA 1175 8965 R: 1177 8964) and the rest of the platoon will move to the Assault Position (GA 1154 8954- 220m East of SBF1). The blocking position will begin engaging targets to the east of PL Gators (target set 4, L: 0345 mils R: 0480 mils). Tank 1 remains located at PL Texas. Platoon vehicles will remain at PL Alabama. **NOTE:** LMTV will not engage any targets and mounted personnel will have weapons on Amber Status (magazine in well, bolt forward, no round in chamber). See maneuver sketches.

(4) Phase 4-Assault. This phase begins with the establishment of the Assault Position and ends when Objective Ravens is secured. **FIFTH ENGAGEMENT:** Prior to leaving to the Assault Position, the Platoon Leader will confirm that SBF 1 has conducted Shift 2 (target set 1, RL: 0555 mils). Once SBF 1 has shifted fire, one squad with nine personnel will move to PL Gators. At PL Gators, SBF 1 will cease fire, clear and place weapons on safe. Then the squad will cross PL Gators and establish the local SBF (L: 1148 8972 R: 1150 8972) engaging targets to the East of the trench (east part of target set 1), PL Gamecocks (LL: 0165 RL: 0350). Once local SBF is set, the assault element with nine personnel will move from the assault position,

crossing PL Gators. Prior to maneuvering north of the local SBF, the local SBF will cease fire and place all weapons on safe, orienting weapons away from the assault. The assault element will then continue to maneuver and enter Trench 1 (GA 1151 8982) engaging targets within the trench to the east (GA 1150 8983). Once the assault squad is in the trench, the local SBF will maneuver to enter the trench behind the assault keeping all weapons on safe oriented away from all personnel. The assault will continue until the trench has been cleared and the assault element has reached the LOA, located at PL Gamecocks. Once the Objective has been cleared, the Platoon Leader will report BDA and ensure all weapons are on safe. **NOTE:** No elements will be forward of trench clearance team; A Cadre member will be out of the trench to enforce movement considerations (see maneuver sketches).

(5) Phase 5- Consolidation and Reorganization. This phase begins when all enemy has been destroyed on OBJ Ravens and ends when the platoon has consolidated on OBJ Ravens and the Tank section is over watching OBJ Orioles. Once OBJ Ravens is cleared of the entire enemy, the weapons squad will move up to the objective and secure the east side of OBJ Ravens towards OBJ Orioles. When the weapons squad is set, the Platoon leader will pull forward Tank 1 and Tank 2 to over watch OBJ Orioles. Tank 1 will move to the intersection of PL Florida and PL Gamecocks and Tank 2 will move to the intersection of PL Florida and PL Gators. After over watch positions have been established, the blocking position will place weapons on safe then move to OBJ Ravens with weapons oriented away from any troops. Once the platoon has been consolidated onto OBJ Ravens the iteration will be complete.

(6) Once the iteration is complete, all individual weapons will be cleared by team leaders, all crew serve weapon systems will be cleared by OCs and all vehicles will move back to the start point. Once the platoon is complete and cleared from the range the next platoon will start (SAME AS OUTLINED ABOVE). Each platoon will conduct three iterations.

NOTE: ON THE MOVEMENT BACK TOWARDS THE AA/ LD, ALL TANK WEAPON SYSTEMS WILL REMAIN WITHIN THE RANGE LIMITS MARKERS AND ORIENTED UP/DOWN RANGE POINTED AWAY FROM FRIENDLY VEHICLES AT ALL TIMES.

15. SAFETY:

a. During Gunnery operations all vehicles will maintain communications DMPRC ROC at all times. If communications goes down all movements and engagements will cease fire freeze until communications is restored.

b. All commands come from the DMPRC ROC.

c. All engagements will be cleared and authorized by DMPRC ROC personnel.

d. Vehicles will only fire at approved 350-19-1-E-R target listing.

e. Vehicles that are running the course will be given weapon control status from the DMPRC ROC and maintain weapons systems downrange until cleared by the Range Safety Officer.

f. The emergency cease fire signal and E-911 medical evacuation procedures will be briefed during the range safety brief.

g. A Field Litter Ambulance with qualified medics will be present through the duration of the gunnery.

h. All vehicles be cleared onto and off execution line by Range Safety Officer or Master Gunner.

i. The "Crawl-Walk-Run" method of training will be the standard for all LFX. A detailed Leader's TEWT will outline all range fans, restrictions, and safety considerations. Platoon rehearsals and dry-blank fire certifications will be conducted prior to platoons getting the clearance to participate in any live fire exercise (LFX). The dry-fire, blank fire exercise (BFX) and the live fire exercise (LFX) will have dedicated Observer/ Controller teams.

j. The Observer/ Controller team for the live fire exercise will consist of the Battalion Commander, Battalion Command Sergeant Major, Company Commander, Company First Sergeant, Senior Platoon Trainer and Platoon Sergeant, and Squad Trainers. These OCs will position themselves with any maneuvering or firing element to include the support by fire (SBF), breach, and assault.

k. Left and Right limits will not exceed what has been listed in the enclosed documents and MCoE Form 350-19.

l. Dismounts will load weapon system once dismounted from the vehicles at the dismount point. Squad/Platoon leaders will enforce weapon orientation (muzzle toward floor). Mounted personnel will have weapons on Amber Status (magazine in well, bolt forward, no round in chamber).

m. All weapons will remain on safe at all times unless Soldiers are in the process of engaging a presented threat target.

n. All crew serve weapon systems will be cleared prior to entering any vehicles. Ammunition will be removed; bolts will be placed in the forward position prior to the rounds being place on the feed tray.

o. After shift fire have taken place, only targets within the approved left and right limits will be lifted.

p. 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 Control and the using unit's higher headquarters. OIC/RSO will take action as directed by Range Control. The cease fire will remain in effect until the problem is resolved and cleared through Range Control. 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 Control:

- a. Designation of unit.
- 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.

16. Signals:

(a) Communications will be maintained between all key maneuvering elements and Range Cadre/ personnel. (This will include and not be limited to: vehicle to vehicle, vehicle to control station, dismounts to control station, dismounts to vehicles, vehicles to target operators, and target operator to control station). If communications is lost, live fire will cease until restored.

(b) Primary means of signaling shift/cease fire will be FM communication.

(c) Alternate signal will be white star cluster. Contingency will be green smoke and emergency will be VS-17 panels.

(d) Company Cadre will be with each squad to confirm receipt of signals by tactical radios.

(e) Emergency "Cease-Fire" signals will be briefed prior to the start of all training exercise.

(f) Emergency cease fire signal will be RED SMOKE held by the SBF and Assault Element's OC.

17. POC for this memorandum is the undersigned, (904) 742-1625.

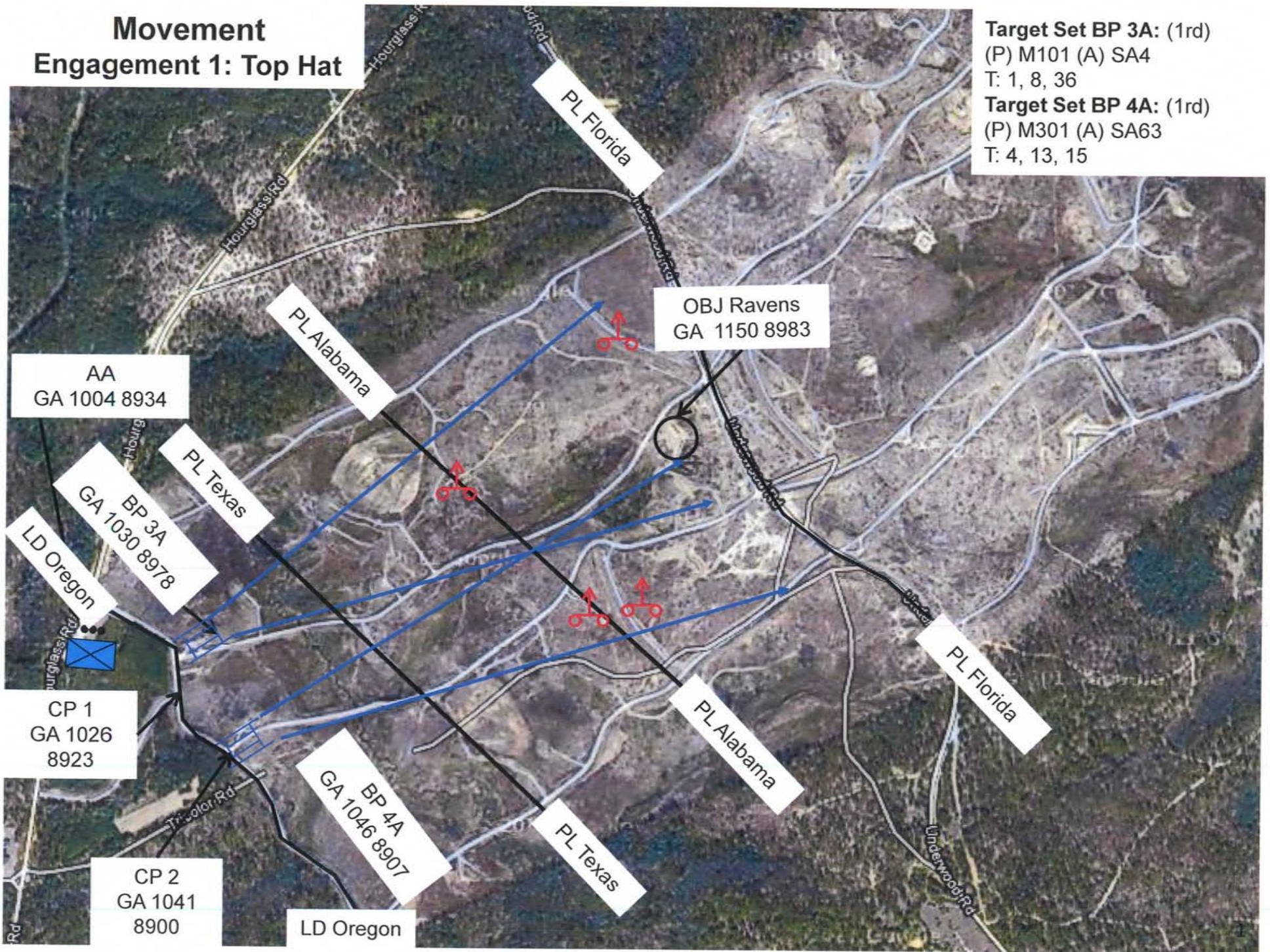
Encl



BRANDON A. PYE
CPT, IN
Senior Platoon Trainer

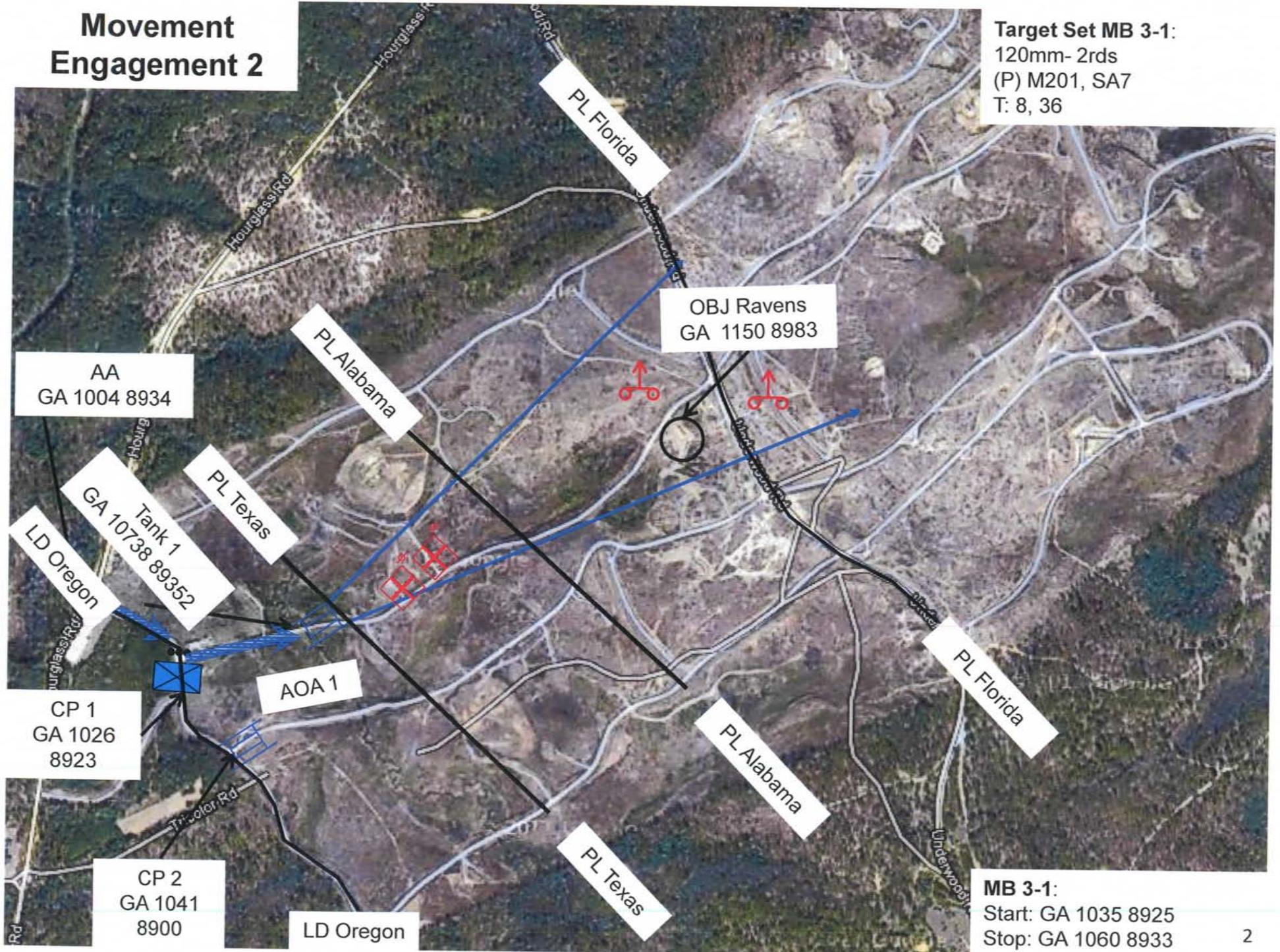
- a. Range Sketch
- b. Target Risk Worksheet
- c. Risk Assessment

Movement Engagement 1: Top Hat



Movement Engagement 2

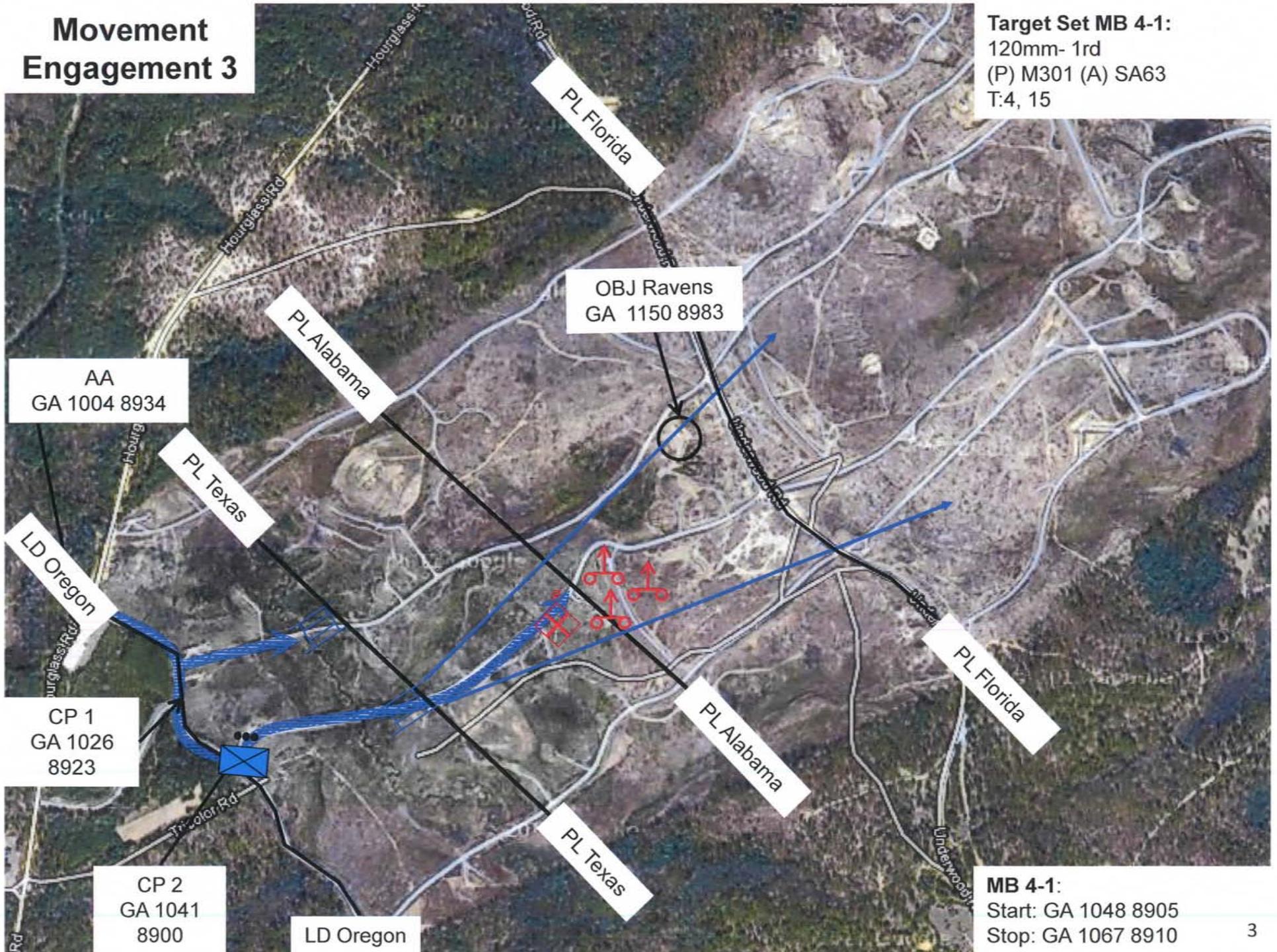
Target Set MB 3-1:
120mm- 2rds
(P) M201, SA7
T: 8, 36



MB 3-1:
Start: GA 1035 8925
Stop: GA 1060 8933

Movement Engagement 3

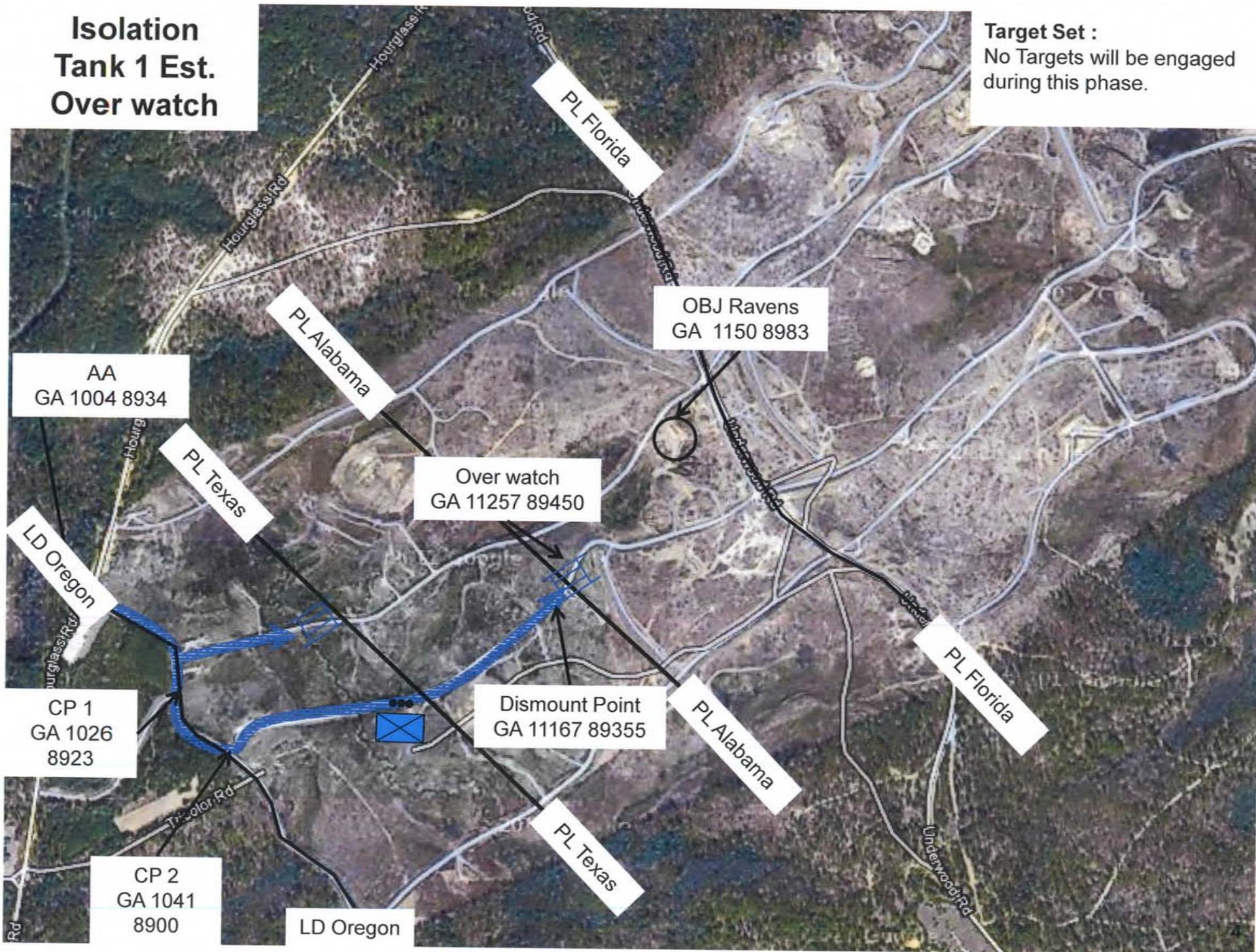
Target Set MB 4-1:
120mm- 1rd
(P) M301 (A) SA63
T:4, 15



MB 4-1:
Start: GA 1048 8905
Stop: GA 1067 8910

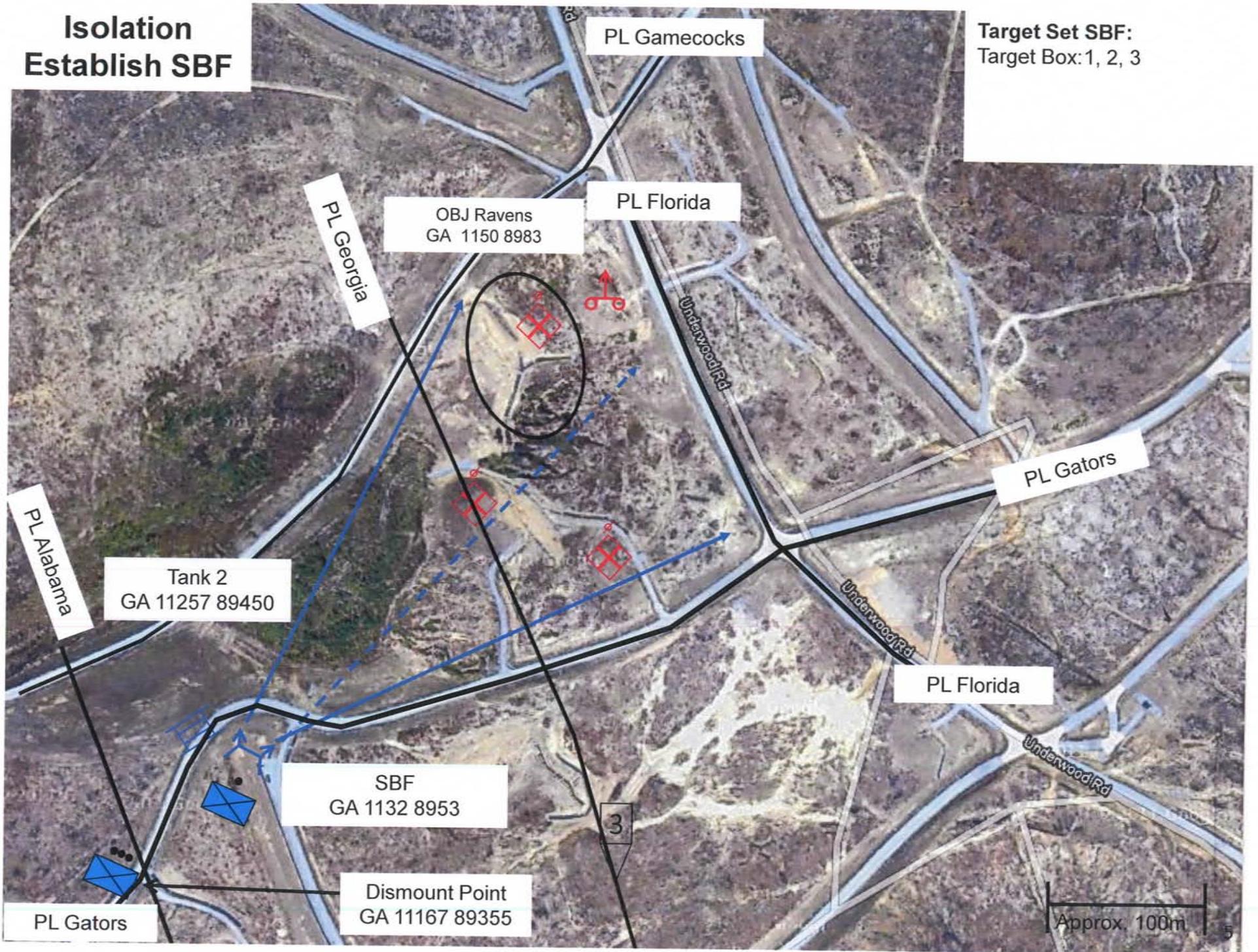
Isolation Tank 1 Est. Over watch

Target Set :
No Targets will be engaged during this phase.



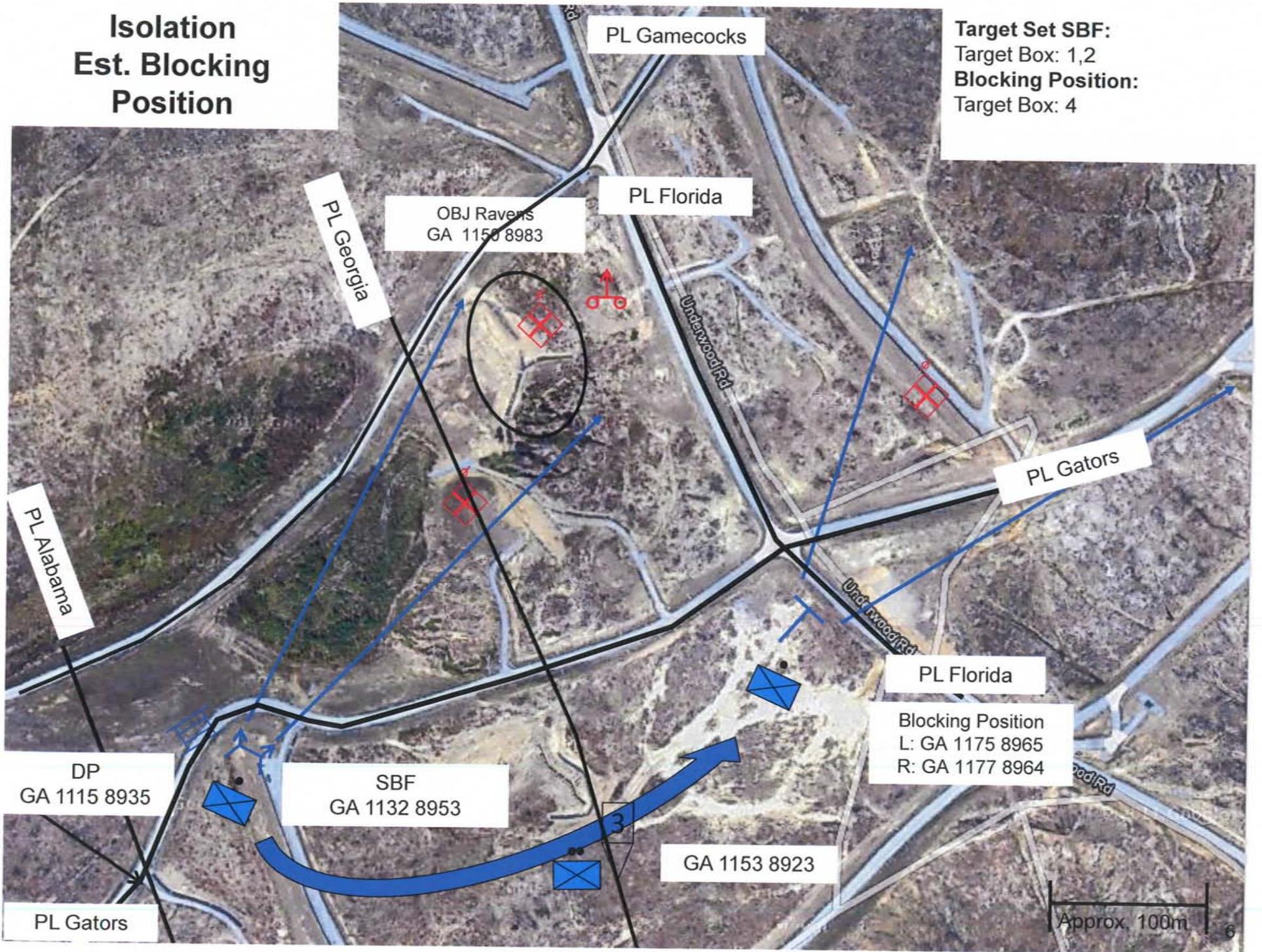
Isolation Establish SBF

Target Set SBF:
Target Box: 1, 2, 3



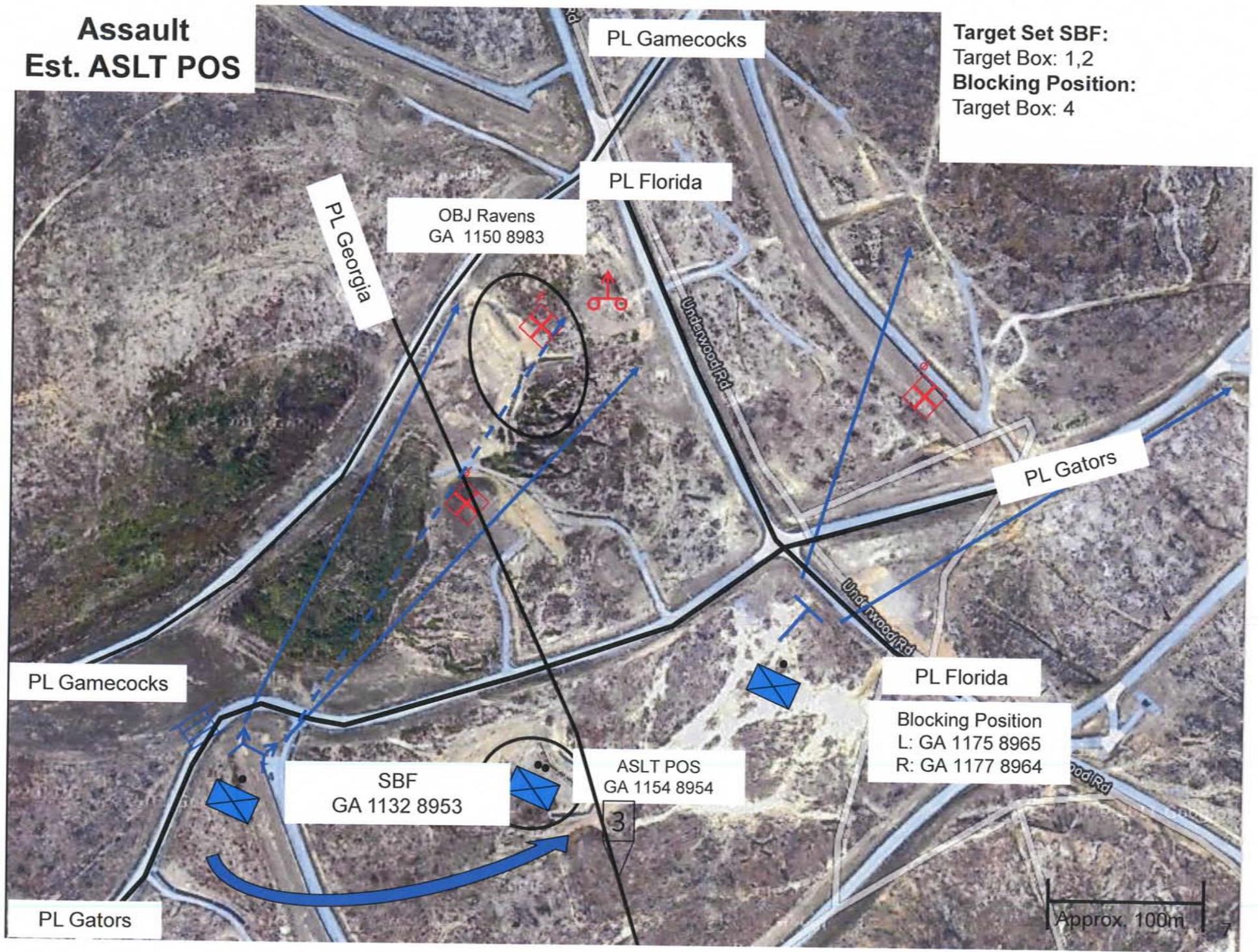
Isolation Est. Blocking Position

Target Set SBF:
Target Box: 1,2
Blocking Position:
Target Box: 4

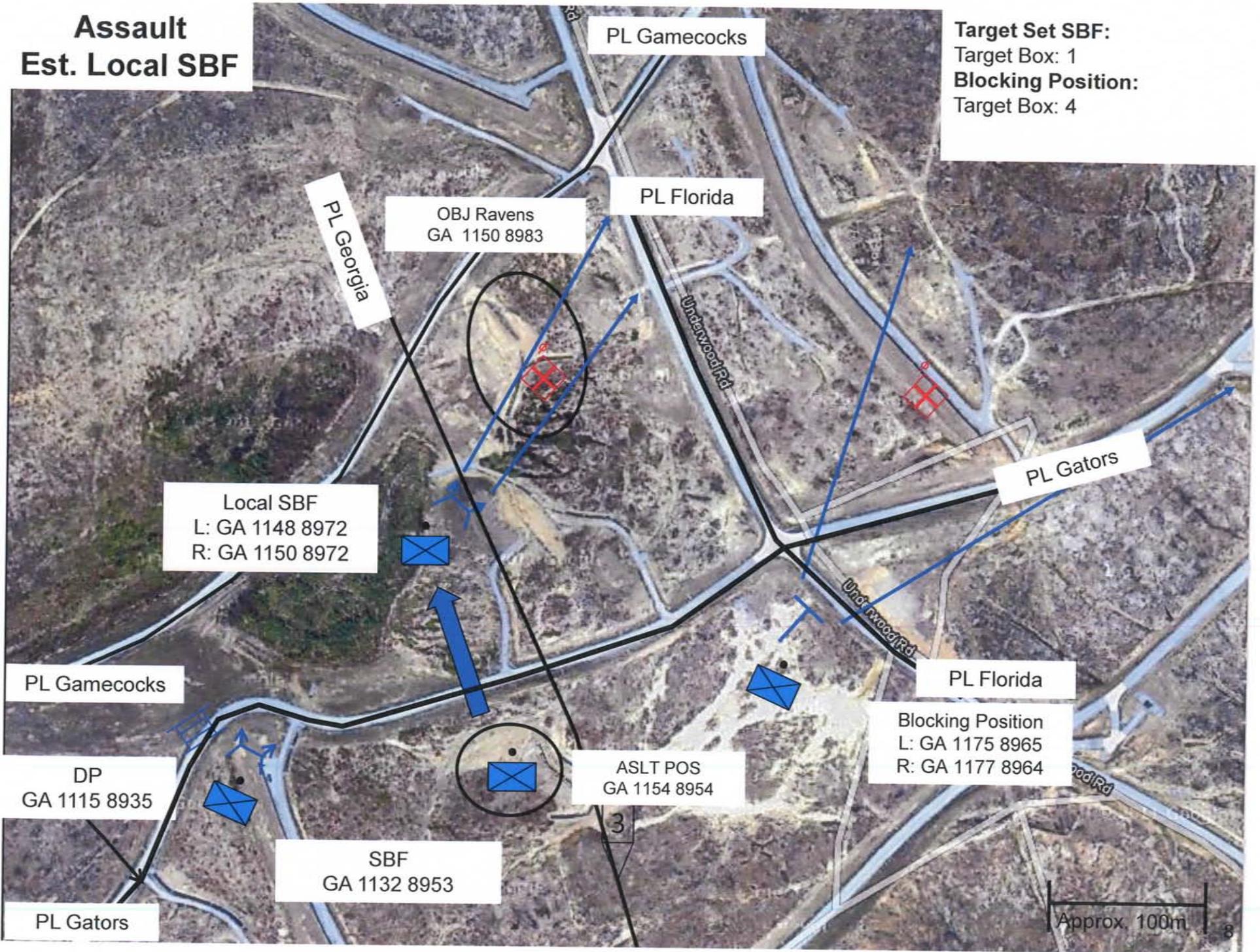


Assault Est. ASLT POS

Target Set SBF:
Target Box: 1,2
Blocking Position:
Target Box: 4

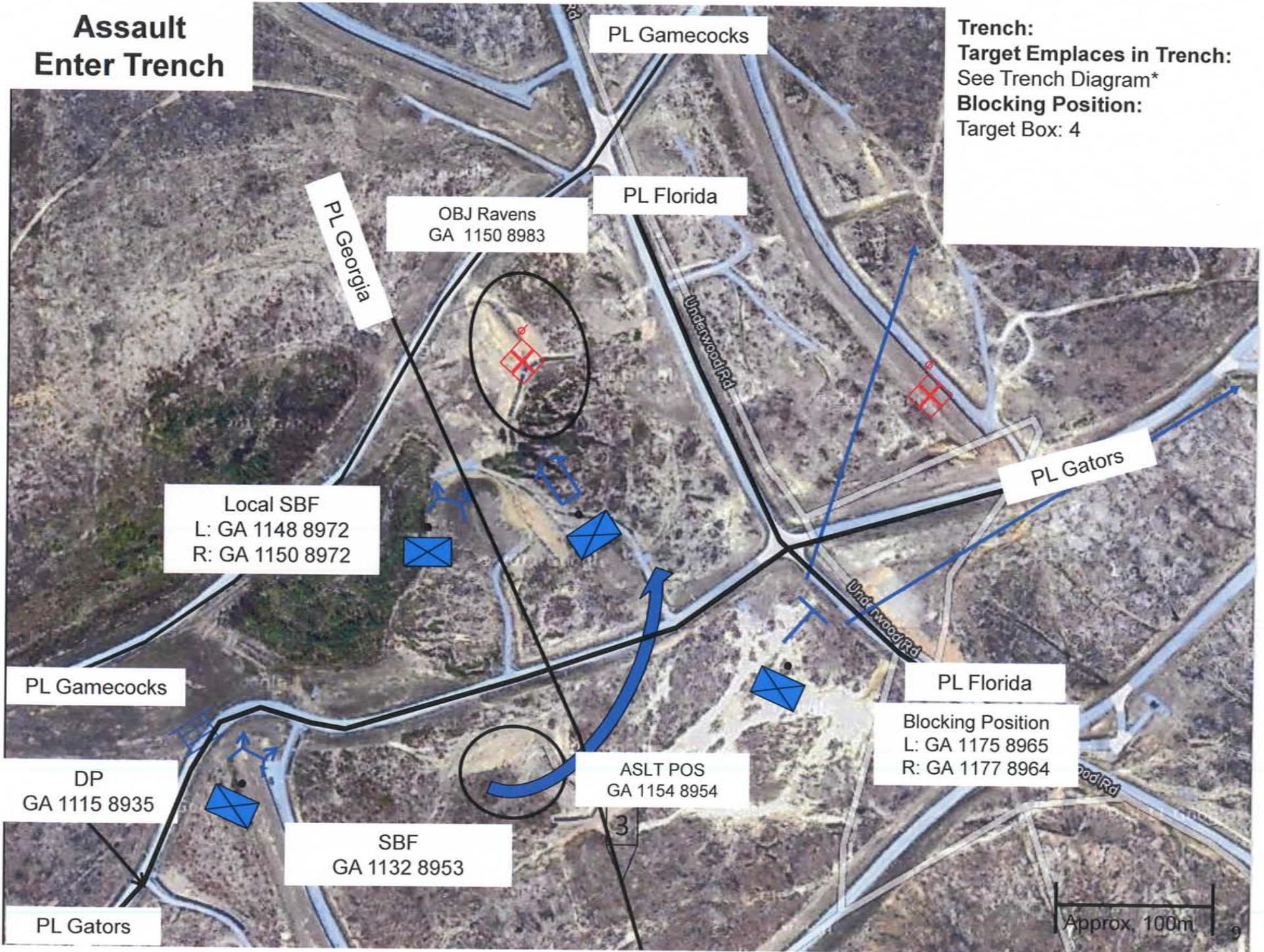


Assault Est. Local SBF



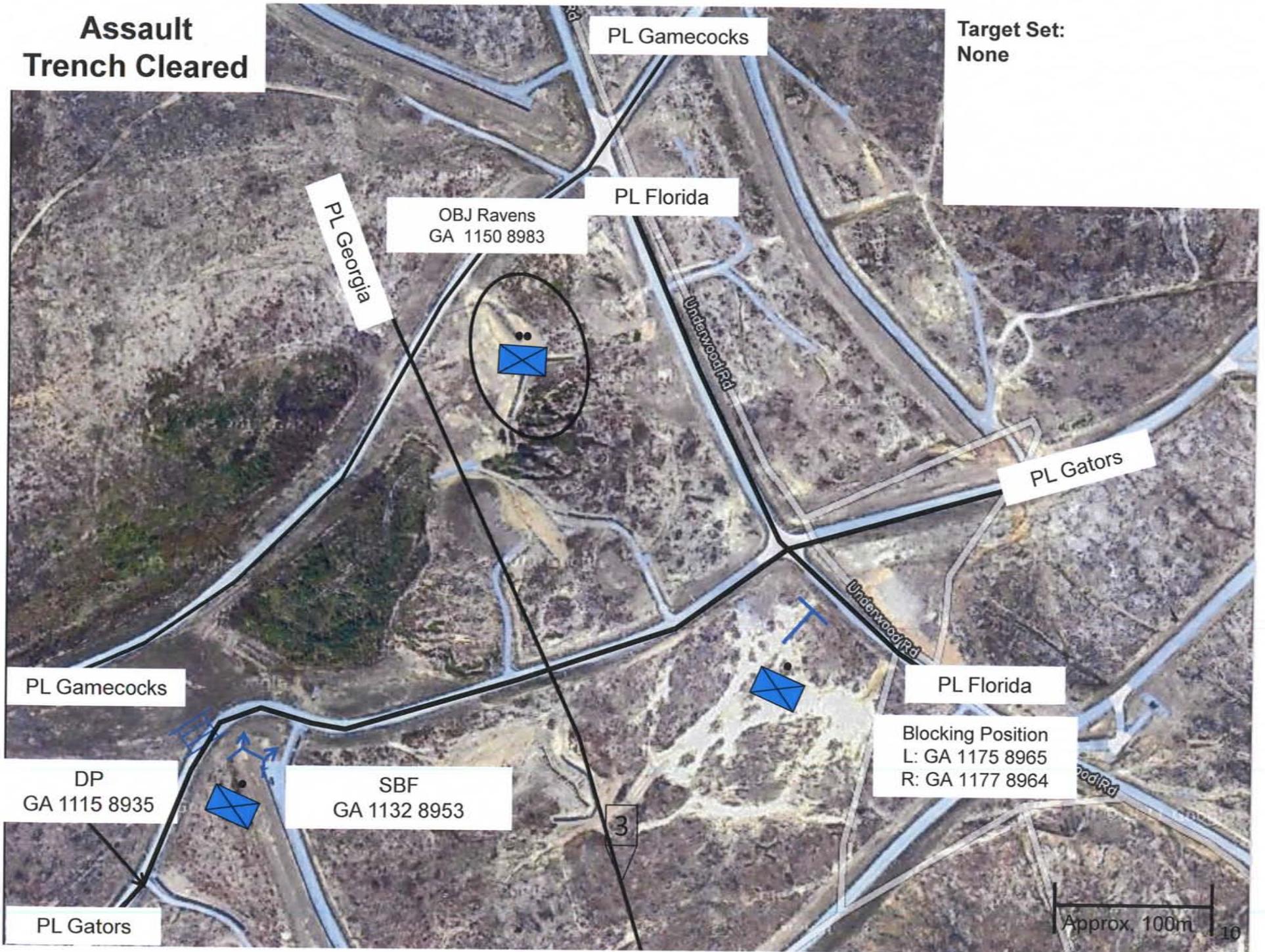
Assault Enter Trench

Trench:
Target Emplaces in Trench:
See Trench Diagram*
Blocking Position:
Target Box: 4



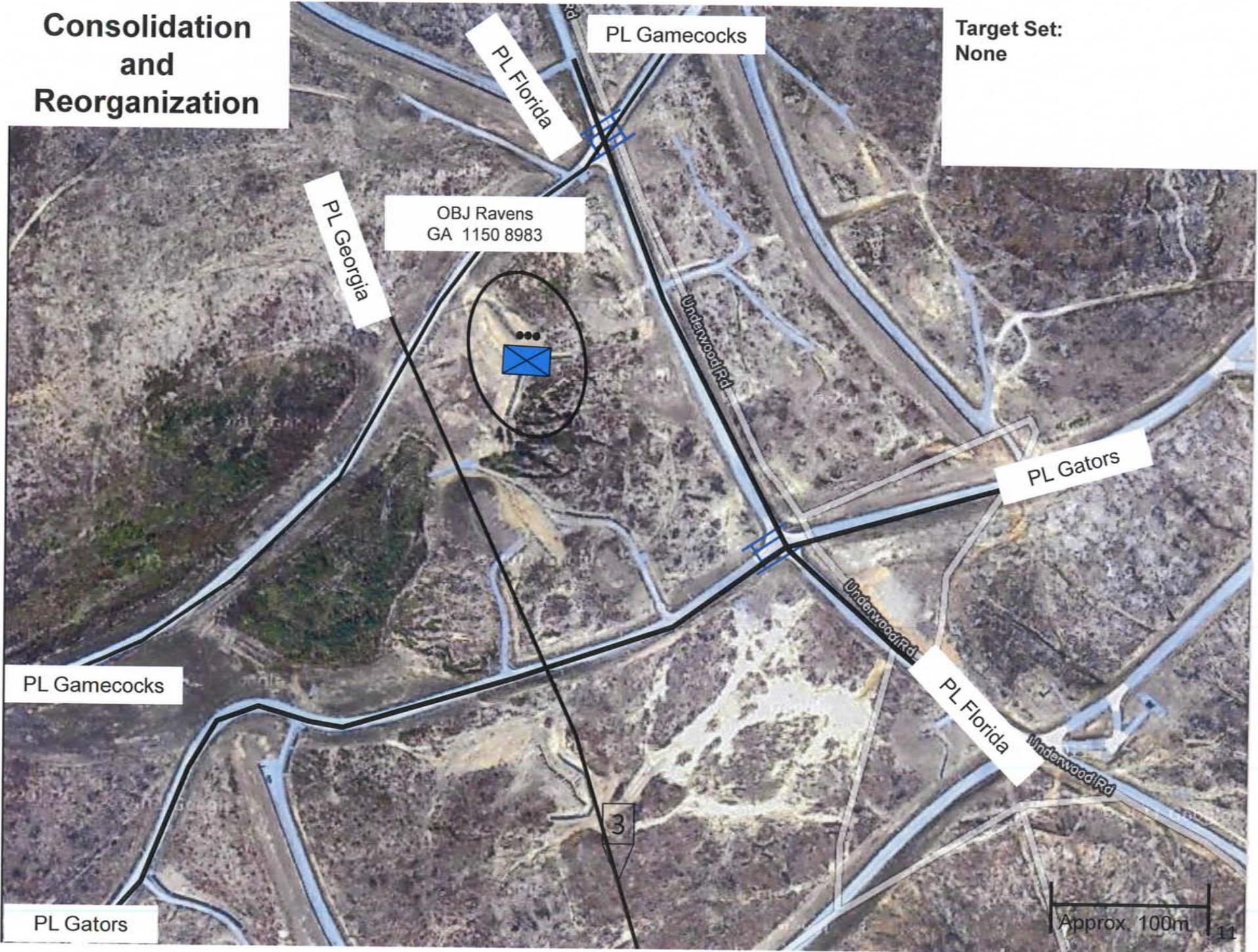
Assault Trench Cleared

Target Set:
None



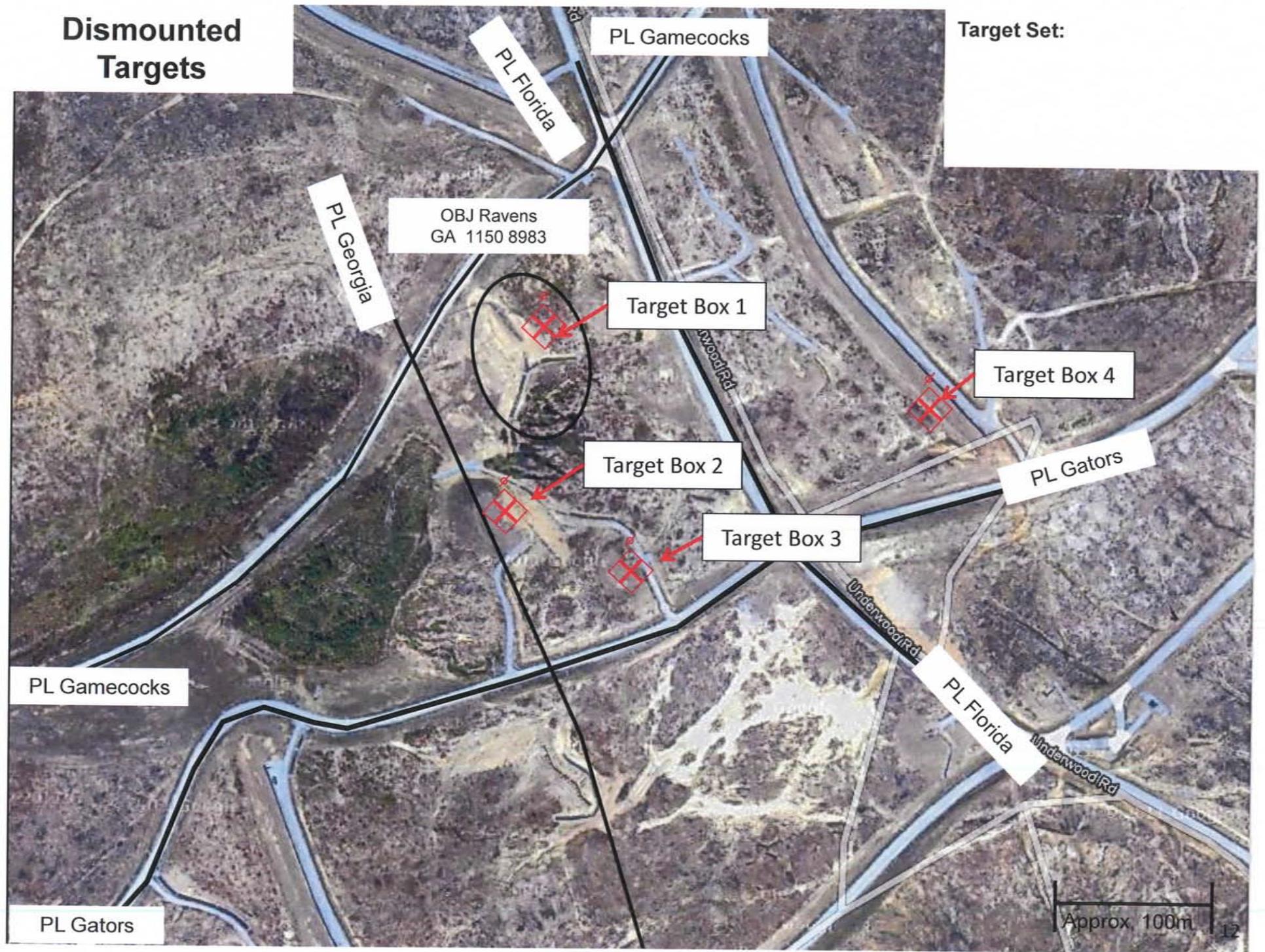
Consolidation and Reorganization

Target Set: None



Dismounted Targets

Target Set:



Approx. 100m

North

Target Locations in/near Trench



DMPRC 2-11 IN Platoon Live Fire Exercise (Log #3-01-12) Roadblock List, 01 Mar 2012							
BLOCK	GRID	LOCATION	TYPE	BLOCK	GRID	LOCATION	TYPE
K-2	163 883	Across Box Springs Rd 125m N. of its intersection with Buena Vista Rd.	Gate	K-38	201 941	Across unnamed trail 35m W. of its intersection with the east boundary road. Permanently closed.	Cable
K-5	117 920	Across Shamanski Rd 25m N. of its intersection with Buena Vista Rd.	Gate	K-39	202 949	Across unnamed trail 15m W. of its intersection with the east boundary road. Permanently closed.	Cable
K10	118 920	Across buena Vista Rd at K-5 road block.	Gate	K-41	192 944	Across Kennesaw Trail 30m W. of its intersection with Box Springs Rd.	Cable
K-16	190 003	Across Rinehart Rd 100m W. of its intersection with Box Springs Rd.	Gate	K-42	194 956	Across Box Springs Rd 1200m N. of its intersection with Cactus Rd.	Gate
K-28	191 885	Across Whitson Rd 15m W. of its intersection with Cactus Rd.	Cable	L-10	110 918	North on Hourglass road from Buena Vista road 175 meters past tank trail.	Gate
K-30	193 916	Across cactus Rd 150m North on Pine Knot Creek. Permanently closed.	Gate	D-1	098 878	On Hourglass road, 700 meters north of 1st Division Road.	Gate
K-32	192 915	Across Shamanski Rd 35m W. of its intersection with Cactus Rd.	Gate	D-2	122 887	On Underwood road approximately 900 meters north of Underwood and Plymouth road intersection.	Gate
K-36	162 882	Across Buena Vista Rd 50m W. of its intersection with Box Springs Rd.	Gate				

DMPRC 2-11 IN Platoon Live Fire Exercise (Log #3-01-12) Roadguard List, 01 Mar 2012			
Guard #1	On Buena Vista Road at Moore Road 1029 9215 blocking traffic going East on Buena Vista Road and the East entrance to Cemetery Drop Zone (Tank Trail).	Guard #3	On Buena Vista Road at 1628 8822 (K36 Roadblock) blocking traffic going North-West on Buena Vista Road.
Guard #2	On Underwood Road at Plymouth Road, 1283 8785, blocking traffic going North-West on Underwood Road.	Guard #4	At the entrance to Cactus Range, 1896 8891, blocking two un-named trails going downrange located approximately 100m North and 100m South of this position. See note below.

DMPRC 2-11 IN Platoon Live Fire Exercise (Log #3-01-12) Barrier List, 01 Feb 2012			
Barrier #1	On Tank Trail (leading to Upatoi Creek ford site) aproximately 45 meters East of Cemetary DZ at 1041 9201 blocking traffic going East.	Barrier #4	On Tank Trail at 1627 8817 blocking traffic going North -West on Tank Trail.
Barrier #2	On un-named trail at 1553 8738 blocking traffic going West.	Barrier #5	On unnamed trail at the entrence to Cactus Range 1890 8883. See note below.
Barrier #3	On un-named trail at 1608 8766 blocking traffic going West.	Barrier #6	On unnamed trail at the entrence to Cactus Range 1900 8903. See note below.
Note: Unit has the option of placing Guard #4 in position or placing Barriers #5 and #6.			



DMPRC 2-11 IN PLT LFX Log #3-01-12
Roadguard and Barrier Locations

HAZARD PROBABILITY

		HAZARD PROBABILITY					
		FREQUENT	LIKELY	OCCASIONAL	SELDOM	UNLIKELY	
			A	B	C	D	E
SEVERITY	CATASTROPHIC	I	EH	EH	H	H	M
	CRITICAL	II	EH	H	H	M	L
	MODERATE	III	H	M	M	L	L
	NEGLIGIBLE	IV	M	L	L	L	

RISK LEVELS

Extremely High - Loss of ability to accomplish the mission.

High - Significantly degrades mission capability.

Medium - Degrades mission capability.

Low - Little or no impact to mission capability.

Examples

I/A = Extremely High

II/B = High

III/C = Medium

IV/D = Low

EFFECT

1. CATASTROPHIC - Death or permanent total disability, system loss, major property damage.
2. CRITICAL - Permanent partial disability, temporary total disability, major system damage, major property damage.
3. MODERATE - Minor injury, lost workdays, compensable injury/illness, minor system damage, minor property damage.
4. NEGLIGIBLE - First aid or minor supportive medical treatment, minor system impairment.

PROBABILITY

- A. FREQUENT - Occurs often - resources are continuously exposed.
- B. LIKELY - Occurs frequently - resources are exposed frequently and/or several times.
- C. OCCASIONAL - Occurs sometimes - resources are exposed sporadically.
- D. SELDOM - Remote occurrence - resources are possibly exposed.
- E. UNLIKELY - Rare occurrence of exposure

COMPOSITE RISK MANAGEMENT WORKSHEET

For use of this form, see FM 5-19; the proponent agency is TRADOC.

1. MSN/TASK: Section & Platoon LFX on DMPCRC (120MM, M240, .50 Cal, M249, M4)	2a. DTG BEGIN 180600MAY2012	2b. DTG END 212359MAY2012	3. DATE PREPARED (YYYYMMDD) 20120301
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4. PREPARED BY

a. LAST NAME Pye, Brandon A.	b. RANK CPT	c. POSITION Senior Platoon Trainer C C0 2-11 IN
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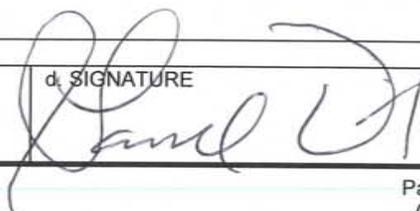
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Section & Platoon LFX	1(A). Range/General Situational Awareness	Moderate	THE RANGE OFFICER IN CHARGE (OIC) AND SAFETY OFFICER (RSO) WILL: 1. READ AND REVIEW THE RISK ASSESSMENT. 2. ENSURE CADRE COMBAT LIFESAVERS AND A DEDICATED EVACUATION VEHICLE IS AVAILABLE. INVENTORY THE COMBAT LIFESAVER'S FIRST AID BAG OF THE TRAINING UNIT. CONSULT WITH TRAINING COMPANY CADRE TO IDENTIFY PROBLEM SOLDIERS THAT HAVE SUICIDAL OR HOMICIDAL INTENTIONS OR GESTURES, OR DEMONSTRATE SERIOUS EMOTIONAL PROBLEMS. EXCLUDE OR INDIVIDUALLY SUPERVISE HIGH RISK SOLDIERS. 3. IDENTIFY SOLDIERS WITH MEDICAL PROBLEMS HAVING THE POTENTIAL TO IMPACT TRAINING TO INCLUDE MINOR ILLNESSES, ALLERGIES, PREVIOUS HEAT AND/OR COLD WEATHER INJURIES, OR ENVIRONMENTAL SENSITIVITIES. 4. REVIEW EVACUATION PROCEDURES AND REPORTING PROCEDURES FOR SERIOUS INCIDENTS. PLAN TO EVACUATE SOLDIERS WITH ALLERGIC REACTIONS, ANYONE WITHIN 25 METERS OF A LIGHTNING STRIKE, COLD WEATHER/HEAT INJURIES, SNAKEBITE, OR ANYONE SHOWING SYMPTOMS BEYOND THE RANGE OIC'S EXPERIENCE AND THE COMBAT LIFESAVER'S & MEDIC'S ABILITY TO TREAT. 5. THE OIC/RSO WILL DIRECT AN AIR MEDEVAC WHEN THE DANGER OF LOSS OF LIFE, LIMB, OR EYESIGHT EXISTS 6. CONDUCT DAILY RISK ASSESSMENT.	Low	1. IAW MCOE Range and Terrain Regulation 350-19 3. IAW AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat 4. Range safety brief to leaders PM 350-6-2	OIC / RSO INDIVIDUAL COC	

Additional space for entries in Items 5 through 11 is provided on Page 2.

13. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (Check one)

LOW
 MODERATE
 HIGH
 EXTREMELY HIGH

14. RISK DECISION AUTHORITY

a. LAST NAME DAVIS, LANCE E.	b. RANK COL	c. DUTY POSITION Brigade Commander, 199 th IN	d. SIGNATURE 
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5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Section & Platoon LFX	1(B). Cold Weather Injuries(Hypothermia, frostbite, etc.)	Moderate	1. ALL SOLDIERS WITH PREVIOUS COLD INJURIES WILL BE IDENTIFIED AND CLOSELY MONITORED THROUGH THE BUDDY SYSTEM, COMPANY CADRE, AND LEADER CHECKS. 2. IMMERSION FOOT: CAUSE: PROLONGED IMMERSION IN COLD WATER, USUALLY IN EXCESS OF 12 HOURS AT TEMPERATURES BELOW 50 DEGREES FAHRENHEIT. 3. TRENCH FOOT: CAUSE: EXPOSURE TO WETNESS AND COLD BETWEEN FREEZING AND 50 DEGREES FAHRENHEIT, LASTING HOURS TO SEVERAL DAYS. 4. FROST BITE: CAUSE: EXPOSURE TO COLD AT TEMPERATURES OF FREEZING OR BELOW, FOR MINUTES TO SEVERAL HOURS. 5. HYPOTHERMIA: CAUSE: HEAT LOSS EXCEEDING BODY'S HEAT PRODUCTION RESULTING IN BODY TEMPERATURE OF 95 DEGREES FAHRENHEIT OR LOWER. 6. FIRST AID MEASURES: REMOVE WET CLOTHING, REST AFFECTED PART AND REWARM IT PROMPTLY TO ROOM TEMPERATURE, EXCEPT IN THE CASE OF FROSTBITE WHEN THAWING SHOULD ONLY BE ATTEMPTED BY MEDICAL PERSONNEL. TREAT INJURIES AND EVACUATE TO MEDIC OR TROOP MEDICAL CLINIC. 7. ENSURE ALL SOLDIERS HAVE PROPER COLD WEATHER CLOTHING. 8. MONITOR WIND CHILL FACTOR: CATEGORY STATUS OF TRAINING DEGREE OF DRESS CAT I STATIONARY FULLY DRESSED +32 to +1 F PHYSICALLY ACTIVE PARTIALLY DRESSED CAT II STATIONARY FULLY DRESSED 0 to -5 F PHYSICALLY ACTIVE PARTIALLY DRESSED CAT III STATIONARY FULLY DRESSED -6 to -10 F PHYSICALLY ACTIVE FULLY DRESSED CAT IV Below -10 F DISCONTINUE OUTSIDE	Low	1. Range safety brief to leaders 2. TRADOC 350-29 3. MCOE PM 40-14	OIC / RSO INDIVIDUAL COC	

ITEMS 5 THROUGH 12 CONTINUED

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?																																			
Section & Platoon LFX	1(C). Hot Weather Injury	High	<p>1. THE TRAINING UNIT WILL MONITOR WET BULB FOR HEAT CATEGORY. PREVIOUS HEAT INJURIES WILL BE MONITORED THROUGH THE BUDDY SYSTEM AND LEADER CHECKS. DAILY RISK ASSESSMENTS WILL BE UPDATED.</p> <p>2. HEAT CATEGORIES WILL BE ENFORCED AS FOLLOWS:</p> <table border="1"> <thead> <tr> <th>HEAT CAT</th> <th>WBGT INDEX F</th> <th>EASY WORK WK/H20</th> <th>MODERATE WORK WK/H20</th> <th>HARD WORK</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>78-81.9</td> <td>NL ½</td> <td>NL ¼</td> <td>40/20</td> </tr> <tr> <td>¼ 2.</td> <td>82-84.9</td> <td>NL ½</td> <td>50/10 ¼</td> <td></td> </tr> <tr> <td>30/30</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3.</td> <td>85-87.9</td> <td>NL ¾</td> <td>40/20 ¼</td> <td>30/30</td> </tr> <tr> <td>4.</td> <td>88-89.9</td> <td>NL ¾</td> <td>30/30 ¼</td> <td>20/40</td> </tr> <tr> <td>5.</td> <td>>90</td> <td>50/10 1</td> <td>20/40 1</td> <td>10/50</td> </tr> </tbody> </table> <p>EASY WORK</p> <ol style="list-style-type: none"> WEAPON MAINTENANCE WALKING HARD SURFACE AT 2.5 MPH, 30 LBS LOAD MANUAL OF ARMS MARKSMANSHIP TRAINING DRILL AND CEREMONY <p>MODERATE WORK</p> <ol style="list-style-type: none"> WALKING LOOSE SAND AT 2.5 MPH, NO LOAD WALKING HARD SURFACE AT 3.5 MPH, LESS THAN 40 LB LOAD CALISTHENICS PATROLLING INDIVIDUAL MOVEMENT TECHNIQUES, I.E. LOW CRAWL, HIGH CRAWL DEFENSIVE POSITION CONSTRUCTION FIELD ASSAULTS <p>HARD WORK</p> <ol style="list-style-type: none"> WALKING HARD SURFACES AT 3.5 MPH, MORE THAN 40 LB LOAD WALKING LOOSE SAND AT 2.5 MPH, WITH LOAD DAILY WATER INTAKE SHOULD NOT EXCEED 12 QTS. EVACUATE HEAT CASUALTIES IAW SERIOUS INCIDENT GUIDELINE/POST REQUIREMENTS. IDENTIFY PREVIOUS HEAT INJURIES. MONITOR EATING OF MEALS AND RECORD WATER CONSUMPTION WITH CARD OR CORD SYSTEM. BRIEF ALL SOLDIERS ON SIGN OF HEAT INJURIES 	HEAT CAT	WBGT INDEX F	EASY WORK WK/H20	MODERATE WORK WK/H20	HARD WORK	1.	78-81.9	NL ½	NL ¼	40/20	¼ 2.	82-84.9	NL ½	50/10 ¼		30/30					3.	85-87.9	NL ¾	40/20 ¼	30/30	4.	88-89.9	NL ¾	30/30 ¼	20/40	5.	>90	50/10 1	20/40 1	10/50	Moderate	<p>1. Range safety brief to leaders</p> <p>2. TRADOC 350-29</p> <p>3. MCOE PM 40-14</p>	<p>OIC / RSO</p> <p>INDIVIDUAL</p> <p>BUDDY TEAM</p>	
HEAT CAT	WBGT INDEX F	EASY WORK WK/H20	MODERATE WORK WK/H20	HARD WORK																																						
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<p>Section & Platoon LFX</p>	<p>1(C). Hot Weather Injury</p>	<p>High</p>	<p>ICE SHEETS</p> <p>1) PREPARE ICE SHEET COOLER.</p> <p>a) THE COMBAT LIFESAVER FOR THESE TRAINING EVENTS MAINTAINS THE ICE SHEETS.</p> <p>b) ENSURE THAT UNITS HAVE AN ADEQUATE NUMBER OF ICE SHEET COOLERS AND ICE SHEETS. EACH COMPANY SIZE ELEMENT WILL PROVIDE ONE ICE SHEET COOLER (10 GALLON) WITH FIVE ICE SHEETS PER EVERY 45 SOLDIERS. EACH 10 GALLON COOLER MUST CONTAIN AT LEAST FIVE SHEETS.</p> <p>c) ENSURE THAT EACH ICE SHEET COOLER CONTAINS 1/4 WATER AND 3/4 ICE.</p> <p>d) NCOIC / OIC INSPECTS EQUIPMENT PRIOR TO BEGINNING A TRAINING EVENT:</p> <p>i) CLS BAG COMPLETE WITH IV AND STARTER KIT</p> <p>ii) THERMO-SCAN WITH EXTRA BATTERIES</p> <p>iii) ONE ICE SHEET COOLER (10 GALLON) WITH A MINIMUM OF FIVE SHEETS EACH PER EVERY 45 SOLDIERS</p> <p>iv) COMMUNICATION: PRIMARY AND ALTERNATE</p> <p>v) WET BULB</p> <p>vi) LITTERS</p> <p>vii) EVACUATION VEHICLE</p> <p>2) PERFORM ICE SHEET APPLICATION.</p> <p>a) EVALUATE THE CASUALTY FOR HEAT ILLNESS.</p> <p>b) INITIATE MEDEVAC FOR CASUALTY IF MENTAL STATUS CHANGES, CASUALTY VOMITS, CASUALTY BECOMES UNCONSCIOUS OR THERMO-SCAN TEMPERATURE IS 101 F° OR GREATER.</p> <p>c) UNIT MEMBERS WILL REMOVE OR LOOSEN ANY RESTRICTIVE CLOTHING IE. (BELTS, BOOT, TROUSERS, BDU/ACU BLOUSE).</p> <p>d) KEEP THE AIRWAY OPEN: LAY SOLDIER FLAT, ELEVATE LEGS, EXTEND NECK/OPEN AIRWAY.</p> <p>e) UNIT MEMBERS WILL PLACE CASUALTY IN THE SHADE IF AVAILABLE.</p> <p>f) UNIT MEMBERS WILL APPLY A TOTAL OF FIVE ICE SHEETS: ONE AROUND THE HEAD, ONE IN EACH ARMPIT, ONE IN THE GROIN AREA, AND ONE OVER THE ENTIRE BODY. DO NOT COVER THE SOLDIERS FACE.</p> <p>g) REPLACE ICE SHEETS AS THEY BEGIN TO WARM UP AND PLACE USED ICE SHEETS BACK INTO COOLER TO RE-COOL.</p> <p>h) START AN IV WITH NORMAL SALINE; GIVE NO MORE THAN 1 LITER. <u>DO NOT DELAY MEDEVAC DUE TO INITIATING THE IV.</u></p> <p>i) UNIT MEMBERS WILL MONITOR VITAL SIGNS AND CONTINUE TO CHECK TEMPERATURE USING THE THERMO-SCAN.</p> <p>3) ALL SOLDIERS WILL CONDUCT ARM IMMERSION PRIOR TO DEPARTING AA AND PRIOR TO THE START OF THE AAR.</p>	<p>Moderate</p>	<p>1. Range safety brief to leaders</p> <p>2. RSO spot check Medics</p> <p>3. BN SOP</p>	<p>OIC / RSO</p> <p>MEDICS</p> <p>INDIVIDUAL</p>	

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Section & Platoon LFX	2. Eye/ Hearing Loss	Moderate	RANGE OIC WILL: 1. BRIEF SOLDIERS ON THE DANGERS OF LOW HANGING BRANCHES. 2. ENSURE SOLDIERS WEAR HEARING AND EYEPROTECTION DURING RANGE OPERATIONS. 3. ENSURE EXTRA EARPLUGS ARE AVAILABLE 4. ALL PERSONNEL WILL REMAIN 150M BEHIND TANKS WHEN FIRING MAIN GUN 5. LEADERS WILL: ENSURE THAT ALL PERSONAL ARE WEARING HEARING PROTECTION DURING THE LIVE FIRE. COMBAT LIVESAVER WILL: 1. ENSURE THAT THE COMBAT LIVESAVER BAG IS PRESENT AND HAS ALL REQUIRED EQUIPMENT 2. REQUEST AND REPLENISH ANY DEFICIENCIES PRIOR TO THE START OF TRAINING 3. HAVE EXTRA EARPLUGS ON HAND FOR THE UNIT.	Low	1. DA PAM 40-501 2. IAW AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat 3. Range safety brief to leaders 4. Buddy-Teams	OIC / RSO BUDDY TEAM INDIVIDUAL	
	3. Soldier Bitten/ Stung by snakes or insects	Moderate	RANGE OIC OR SAFETY OFFICER WILL: 1. DURING A SAFETY BRIEFING, INFORM THE SOLDIERS OF THE VARIOUS TYPES OF WILDLIFE THAT ARE HAZARDOUS AND WARN THEM NOT TO HANDLE OR HARASS THE WILDLIFE DURING TRAINING. 2. ENSURE PERSONNEL WITH MEDICAL PROBLEMS SUCH AS ALLERGIC REACTIONS TO INSECT BITES ARE SUPERVISED. 3. ENSURE STING (ANAPHYLACTIC) KITS ARE AVAILABLE	Low	1. TRADOC REG 350-6-2 2. Range safety brief to leaders 3. Buddy-Team	OIC/ RSO	
	4. Soldier struck by lightning	Moderate	RANGE OIC OR SAFETY OFFICER WILL: 1. MONITOR RADIO NET AT ALL TIMES FOR SEVERE WEATHER/LIGHTNING ADVISORY/WARNING 2. SUSPEND ALL TRAINING DURING ELECTRICAL STORMS. 3. NOTIFY RANGE CONTROL, BATTALION HEADQUARTERS (HQ) AND COMPANY HQ OF ANY INCIDENT. 4. BRIEF THE TRAINING UNIT ON ELECTRICAL STORM PLAN, IDENTIFY DESIGNATED AREA TO GROUND GEAR AND THE DESIGNATED LIGHTNING PROTECTION AREA. UNIT LEADERS WILL: 1. INFORM THE TRAINING UNIT TO IMPLEMENT THE SEVERE WEATHER PLAN. 2. ENSURE SOLDIERS GROUND THEIR INDIVIDUAL EQUIPMENT AND DON THEIR WET-WEATHER GEAR. 3. ENSURE ALL SOLDIERS ARE SPREAD 5 TO 10 METERS APART IN AN OPEN AREA OR INTO THE DESIGNATED LIGHTNING PROTECTION AREA UNTIL THE STORM CLEARS OR THE TRAINING UNIT DEPARTS.	Low	1. Range safety brief to leaders 2. TRADOC REG 350-6-2 3. MCOE Reg 420-1-2	OIC/ RSO	

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Section & Platoon LFX	5. Minor Body Injury(Cuts or Falls)	Moderate	1. RANGE OIC OR SAFETY OFFICER WILL: GIVE SAFETY BRIEFING ALERTING SOLDIERS OF TRIPPING HAZARDS: ROCKS, BRANCHES, FALLEN TREES, AND CREEK BEDS. LEADERS WILL MONITOR SOLDIERS' MOVEMENT AND ALERT SOLDIERS TO POSSIBLE HAZARDS.	Low	1. IAW MCOE Range and Terrain Regulation 350-19 2. Range safety brief to leaders	OIC/ RSO INDIVIDUAL	
	6. Fire Hazard	Moderate	1. AMMO NCO WILL ENSURE THERE IS NO SMOKING WITHING 50' OF AMMUNITION/FLAMMABLES. 2. AMMO NCO WILL ENSURE THAT FIRE EXTINGUISHERS ARE AVAILABLE. 3. TRAINING UNIT WILL PROVIDE 1 NCO FOR AMMO POINT NCOIC RESPONSIBILITIES DURING ACTUAL FIRING. 4. RANGE SAFETY NCO AND THE TOWER OPERATOR WILL OBSERVE DOWN RANGE FOR ANY FIRES THAT STARTED DUE TO THE SOLDIERS FIRING. A CEASE FIRE WILL BE GIVEN IF THE FIRE IS GOING TO ENDANGER SOLDIERS OR POSSIBLY CAUSE TARGET MALFUNCTION.	Low	1. IAW MCOE Range and Terrain Regulation 350-19 2. IAW AR 385-63, policies and procedures for Firing Ammunition for Training , Target Practice, and Combat 3. Range safety brief to leaders	OIC/ RSO	
	7. Lost Soldier	Moderate	1. SAFETY BRIEFING WILL INCLUDE MEASURES TO TAKE IF LOST OR SEPARATED. 2. A SITUATION REPORT WILL BE PROVIDED TO THE CHAIN OF COMMAND, BN, BDE, AND RANGE CONTROL. 3. A THOROUGH SEARCH WILL BE CONDUCTED FOR THE LOST SOLDIER USING ALL AVAILABLE MANPOWER.	Low	1. IAW MCOE Range and Terrain Regulation 350-19 2. Range safety brief to leaders	OIC/RSO BUDDY TEAM INDIVIDUAL	
	8. Road conditions	Moderate	1. RSO GIVES DETAILED SAFETY BRIEFING. 2. 5 M.P.H. SPEED LIMIT SIGNS POSTED IN THE TRAINING AREA. 3. SAFETY BRIEFING INCLUDES CURRENT AND EXPECTED WEATHER CONDITIONS AND THE CURRENT ROAD CONDITIONS.	Low	1. AR 190-5 2. MCOE 190-5	OIC/RSO CONVOY CDR DRIVER T.C	

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Section & Platoon LFX	9. Gunner/ Vehicle Commander Ejected from Vehicle	Moderate	1. PMCS WILL BE CONDUCTED DAILY IAW APPLICABLE PUBLICATION. 2. ALL DRIVERS WILL BE PROPERLY LICENSED ON THEIR ASSIGNED VEHICLES 3. A THOROUGH RECON OF THE ROUTES WILL BE CONDUCTED AND ANY POTENTIAL HAZARDS DUE TO ROAD AND WEATHER CONDITIONS WILL BE BRIEFED TO THE DRIVERS. 4. DRIVERS WILL FOLLOW POSTED SPEED LIMITS AT ALL TIMES AND MAINTAIN INTERVALS. 5. DRIVERS WILL BE BRIEFED NOT TO BRAKE SUDDENLY, UNLESS IN AN EMERGENCY SITUATION. 6. DRIVERS WILL BE BRIEFED ON THEIR ONE AND ONLY PURPOSE: TO SAFELY DRIVE THE VEHICLE. THEY WILL UNDERSTAND THAT ANYTHING ELSE MUST WAIT UNTIL THEY ARE STOPPED. 7. ALL SOLDIERS WILL WEAR PROTECTIVE EQUIPMENT TO INCLUDE: IOTV WITH FRONT AND BACK PLATES, ACH, EYE PROTECTION, AND GLOVES. 8. TC AND LEADER WILL NOT EXCEED NAME TAPE DEFILADE WHEN HATCHES ARE OPEN	Low	1. IAW MCOE Range and Terrain Regulation 350-19 2. Range safety brief to leaders 3. AR 190-5 4. MCOE 190-5	OIC/RSO NCO supervision	
	10. Vehicle Rollover	Moderate	1. ALL DRIVERS WILL BE PROPERLY LICENSED AND CERTIFIED IN HANDLING THEIR ASSIGNED VEHICLE AND KNOW ITS WEIGHT AND TURN RADIUS. 2. ALL DRIVERS WILL BE BRIEFED ON POTENTIAL ROAD HAZARDS AND WEATHER CONDITIONS THAT MAY LEAD TO ROLLOVERS. 3. DRIVERS WILL NOT DRIVE FASTER THAN THE BRIEFED CONVOY SPEED. 4. ALL SOLDIERS WILL RECEIVE ROLLOVER PREVENTION AND SURVIVAL BRIEF PRIOR TO EACH ITERATION. 5. TC AND LEADER WILL NOT EXCEED NAME TAPE DEFILADE WHEN HATCHES ARE OPEN 6. ALL CREW WILL CONDUCT ROLLOVER DRILLS PRIOR TO EACH ITERATION 7. ALL VEHICLES WILL REMAIN ON ROADS	Low	1. IAW MCOE Range and Terrain Regulation 350-19 2. Range safety brief to leaders 3. AR 190-5 4. MCOE 190-5	OIC/RSO NCO supervision	
	11. Environmental Considerations	Moderate	1. SOLDIERS WILL BE BRIEFED ON THE LOCATION OF THE LATRINES. THE RANGE WILL BE THOROUGHLY POLICED OF ALL GARBAGE, TRASH AND DUNAGE PRIOR TO CLOSING. ALL VEHICLES ON THE RANGE WILL USE DRIP PANS AND CHALK BLOCKS WHEN PARKED AND A POL SPILL KIT WILL BE ON THE RANGE. 2. SOLDIERS WILL STAY AWAY FROM ALL WILDLIFE ON RANGE	Low	1. IAW MCOE Range and Terrain Regulation 350-19 2. Range safety brief to leaders	OIC/RSO NCO supervision Individual	

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Section & Platoon LFX	12. Fratricide	High	1. RANGE OIC WILL IDENTIFY PROBLEM SOLDIERS PRIOR TO START OF TRAINING. 2. RANGE RSO WILL READ A SAFETY BRIEFING TO ALL SOLDIERS ON RANGE OPERATION. MUZZLE AWARENESS WILL BE STRESSED WHILE KEEPING WEAPON SYSTEMS (OTHER THAN PISTOL) IN A 360 DEGREE LOW READY POSITION, ON SAFE, AND FINGER OUTSIDE TRIGGER WHEN NOT FIRING. SQUAD LEADERS AND VC WILL VERIFY THAT WEAPON SYSTEMS ARE CLEARED AT THE END OF EACH ITERATION. THE COMMANDER IS RESPONSIBLE FOR ENSURING THE WEAPON IS SAFE. THE RODDING OF WEAPONS REMAINS A COMMANDER'S OPTION. 3. ALL NEGLIGENT WEAPON DISCHARGES INVOLVING BALL AMMO WILL BE REPORTED VIA A SERIOUS INCIDENT REPORT (SIR) TO THE BN TOC. 4. ALL TANK CREWS WILL BE CERTIFIED 5. ALL SOLDIERS WILL BE QUALIFIED ON INDIVIDUAL WEAPONS SYSTEMS 6. ALL CADRE WILL BE BRIEFED ON SDZ AND RANGE FANS 7. ALL PLATOONS WILL CERTIFY BLANK AND DRY FIRE PRIOR TO LIVE FIRE ITERATIONS 8. MEDEVAC REHEARSALS WILL BE CONDCUTED PRIOR TO LIVE FIRE ITERATIONS 9.FLA WILL BE PRESENT DURING ALL LIVE FIRE ITERATIONS	High	1. IAW MCOE Range and Terrain Regulation 350-19 2. IAW AR 385-63, policies and procedures for Firing Ammunition for Training , Target Practice, and Combat 3. Range safety brief to leaders 4. IAW Policy Memorandum 350-1-10.	OIC/RSO BUDDY-TEAMS INDIVIDUAL	
	13. Ammunition	Moderate	1. ONCE LIVE AMMUNITION IS ON SIGHT, IT WILL BE KEPT IN A SEPARATE AREA AT LEAST 50' AWAY FROM BLANK AMMUNION AND IN SIGHT OF THE AMMO NCO AT ALL TIMES.	Low	1. IAW MCOE Range and Terrain Regulation 350-19 2. IAW AR 385-63, policies and procedures for Firing Ammunition for Training , Target Practice, and Combat 3. Range safety brief to leaders 4. IAW Policy Memorandum 350-1-10. 5. Continuous/ Direct Supervision	OIC/RSO NCO SUPERVISION RANGE SAFETIES	

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Section & Platoon LFX	14. Negligent Discharge	High	1. PRIOR TO TRAINING SOLDIERS WILL RECEIVE A DETAILED SAFETY BRIEF OUTLINING WHEN THEY WILL BE ALLOWED TO LOAD AND UNLOAD WEAPONS, PROPER WEAPONS POSTURE WHILE HANDLING WEAPONS ON THE RANGE, AND WHEN THEY WILL TO RECEIVE AMMO. 2. ALL LEADERS WILL ENSURE WEAPONS ARE TREATED AS IF THEY ARE LOADED AT ALL TIMES AND ENSURE SOLDIERS MAINTAIN PROPER MUZZLE AWARENESS. 3. ALL LEADERS WILL ENSURE ALL WEAPONS ARE KEPT ON SAFE. WEAPONS WILL ONLY BE ON FIRE WHEN THE SOLDIER IS PREPARED TO ENGAGE A TARGET. LEADERS WILL SUPERVISE SOLDIERS WHILE THEY ARE FIRING TO ENSURE CORRECT WEAPONS POSTURE AND ORIENTATION. 4. RANGE OIC WILL DIRECT A SELF IMPOSED CHECK-FIRE DURING ACCIDENTS OR INJURIES DUE TO WEAPONS FIRE. 5. ANY SOLDIER IDENTIFIED AS A RISK WILL BE IMMEDIATELY REMOVED FROM TRAINING, RETRAINED AND REINSERTED INTO TRAINING. 6. ANY SOLDIER WHO HAS A NEGLIGENT DISCHARGE WILL BE REMOVED FROM TRAINING, RETRAINED, AND REINSERTED INTO TRAINING. 7. LEADERS WILL VISUALLY OBSERVE SOLDIERS PERFORM WEAPONS CLEARING PROCEDURES IN ACCORDANCE WITH MCOE REG 350-19. 8. OIC WILL ENSURE MEDICS ARE ON SITE TO PERFORM IMMEDIATE AID IF NEEDED. 9. ALL SOLDIERS WILL BE QUALIFIED ON INDIVIDUAL WEAPONS SYSTEMS 10. MEDEVAC RXL WILL BE CONDCUTED PRIOR TO LIVE FIRE ITERATIONS 11.FLA WILL BE PRESENT DURING ALL LIVE FIRE ITERATIONS	Moderate	1. IAW MCOE Range and Terrain Regulation 350-19 2. Range safety brief to leaders 3. Continuous/ Direct Supervision	OIC/RSO NCO SUPERVISION RANGE SAFETIES INDIVIDUALS	
	15. Shooting Out of Range Fan	Moderate	1. SOLDIERS WILL BE BRIEFED ON THEIR LEFT AND RIGHT RANGE LIMITS PRIOR TO THE START OF RANGE OPERATIONS.	Low	1. IAW MCOE Range and Terrain Regulation 350-19 2. Range safety brief to leaders 3. Continuous/ Direct Supervision	OIC/RSO NCO SUPERVISION RANGE SAFETIES INDIVIDUALS	

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Section & Platoon LFX	16. Misfire	Moderate	1. SECTIONS SAFETY CREW DRILLS WILL PREPARE EVERY SOLDIER FOR THIS EVENT. 2. SOLDIERS WILL EXECUTE PMI. ALL ROUNDS WILL BE INSPECTED BEFORE FIRING. 3. PROPER TUBE MAINTENANCE CONDUCTED. MISFIRES HANDLED IAW FM 23-90.	Low	1. IAW MCOE Range and Terrain Regulation 350-19 2. IAW AR 385-63, policies and procedures for Firing Ammunition for Training , Target Practice, and Combat 3. Range safety brief to leaders 4. Continuous/ Direct Supervision	OIC/RSO NCO SUPERVISION RANGE SAFETIES BUDDY TEAMS INDIVIDUALS	
	17. Round out of the approved surface danger zone	Moderate	1. PROPER CALL FOR FIRES IAW 6-30. 2. POSITIVE ID OF ALL TARGETS PRIOR TO ENGAGEMENT.	Low	1. IAW MCOE Range and Terrain Regulation 350-19 2. IAW AR 385-63, policies and procedures for Firing Ammunition for Training , Target Practice, and Combat 3. Range safety brief to leaders 4. IAW Policy Memorandum 350-1-10. 5. Continuous/ Direct Supervision	OIC/RSO NCO SUPERVISION RANGE SAFETIES INDIVIDUAL TANK COMMANDER	
	18. Soldier run over by vehicle	Moderate	1. ALL SOLDIERS WILL REMAIN 50 METERS AWAY FROM ALL MOVING VEHICLES. 2. ALL VEHICLES WILL REMAIN ON APPROVED LANES. 3. SOLDIERS WILL NOT TAKE UP STATIC POSITIONS ON RANGE. 4. SOLDIERS WILL TRAIN WITH CONDUCT MOUNTED VEHICLE TRAINING PRIOR TO ANY ITERATION ON RANGE. 5. GROUND GUIDE ALL VEHICLES WHILE BACKING UP OR OFF OF LIVE FIRE RANGE; ENSURE GROUND GUIDE IS VISIBLE	Low	1. Range safety brief 2. Continuous/Direct Supervision	OIC/RSO NCO Supervision Range Safeties Buddy Teams Individuals	

Risk Assessment Matrix



RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



Date Submitted: 2/2/2012

EMD Number: 1203702 **Project#:** Unknown **Project Title:** 316th Cavalry Sullivan Cup

Description of proposed action:

Crews will be conducting M4 Zero, Small Arms Exercise and 120mm Live Fire Gunnery. See attached email for details.

Project Location:

DMPRC

Amount, Description, Location of Disturbance/Digging:

None

Number of Personnel:

100

Type of Ammunition:

5.56mm, 9mm, C785, C784, 7.62mm and .50 cal Live

Number/Types of Trees:

None

Size of Project Area:

N/A

Duration of Action: Start: 5/9/2012 Stop: 5/11/2012

Proponent: SFC Hogan

706-577-2532

Organization/Unit: HHT 1-16 CAV (316 CAV)

Number/Types of Vehicles:

N/A

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 IS FOR THIS EXERCISE ONLY FOR 316th CAVALRY SULLIVAN CUP ACTIVITIES***

Cultural Resources - Archeological

Conditions:

Edward Howard (706 545 1898), 2/6/2012

See attached JPEG maps for reference. The project area contains federally protected sensitive sites. These sites may be marked with Siebert stakes placed 20 - 30 meters apart which contain labels warning against ground disturbance. Training may be conducted in these sites so long as it does not disturb the ground (digging, off-road vehicle traffic, etc.) The project OIC is responsible to insure the sites are not disturbed, regardless of whether or not they are marked. They are identified in RED in the attached maps. Additionally, if endangered plants, historic artifacts or Native American artifacts (arrowheads, etc) are encountered here (as in anywhere on the Installation) their removal constitutes theft as well as possible violation of other federal laws. This could result in criminal prosecution. Contact CRM with any questions or concerns. Re-submittal is required if submitted project is modified in any way.

Natural Resources - RCW

Conditions:

Michael Barron (706 544 7080), 2/6/2012

Concur with exercise. Since this will be during the breeding season for the Red-cockaded Woodpecker, Conservation Branch personnel may require brief access to the area in order to check nesting or band nestlings - personnel will coordinate with range for access if necessary.

Noise

Conditions:

Ellis Leeder (706 545 2400), 2/10/2012

This is training operations that must be conducted with live ammo. If there is any 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. In accordance with the Army's policy on environmental noise management, all efforts shall be made to minimize noise annoyances to the highest extent practicable with training operations without interfering with the proposed missions. Please follow the fly friendly program avoiding no fly zones. Please follow good smoke management practices not allowing smoke or dust to travel off Installation boundary into public areas or roads. Please increase distance between vehicles when dust conditions are extreme, see Table 5-3. CS gas use should be utilized in designated areas only, contact Range Control for a listing of approved sites. If any assistance or a copy of MCoE Regulation 350-19 or the IONMP noise plan is needed for review, please feel free to contact Ellis Leeder at 706.545.2400 or email ellis.p.leeder.civ@mail.mil or visit the Range Control Website for the updated version of MCoE Regulation 350-19

CWA - Training

Conditions:

Beverly Howard (706-626-0370), 2/8/2012

Environmental Review: Caution within training areas and motor pools should be taken to protect all nearby waterways to include Bonham Creek, Pine Knot Creek and Sally Branch (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 improperly 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.

For environmental considerations to protect water quality; all food service facilities and waste collection areas (including Port-a-Potties) must be located away from any water wells, state waters, and waterways (including drainage ditches) in the vicinity of the training area. Recommended distance of approximately 100 (30 meters) from any water source. For this particular training activity located at the DMPCRC Training Area. Bonham Creek, Sally Branch and Pine Knot Creek are located within the DMPCRC. No wastewaters should be discharged into waterways. No food, grease, garbage, human waste is to be left on site. All fats/oil/grease and/or solid waste must be collected and dispose off properly. Failure to follow these guidance could cause the site to be close for future use. Recommend use and implementation of FM 4-25.12 (FM 21-10-1) Unit Field Sanitation Team preventive medicine measures when establishing field food service facilities and other waste facilities. To include but not limited to Chapter 2, Section IV: Waste Disposal; Appendix A Lesson 6: Waste Disposal in the Field; Appendix B - Figures B-25, B-26, B-27, B-28. Unit to submit POC in charge of monitoring these activities. For additional specific guidance on field sanitation requirements - contact Fort Benning Preventive Medicine POC: Lt Sanchez-Perez at 706 545 1446 or SGT Montoya at 706 545 1445.

SPECIAL NOTE: See attached Spill Prevention and Example Unit/Activity SOP for Training and Deployment with recommendations during DECON training exercise.

EMD Number: 1203702

IJO#

Project Title: 316th Cavalry Sullivan Cup

Hazardous Materials/Waste

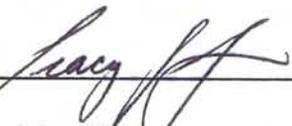
Conditions:

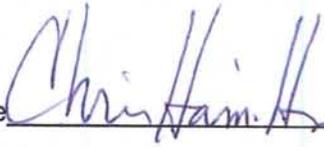
Ted Williams (706 545 7579), 2/7/2012

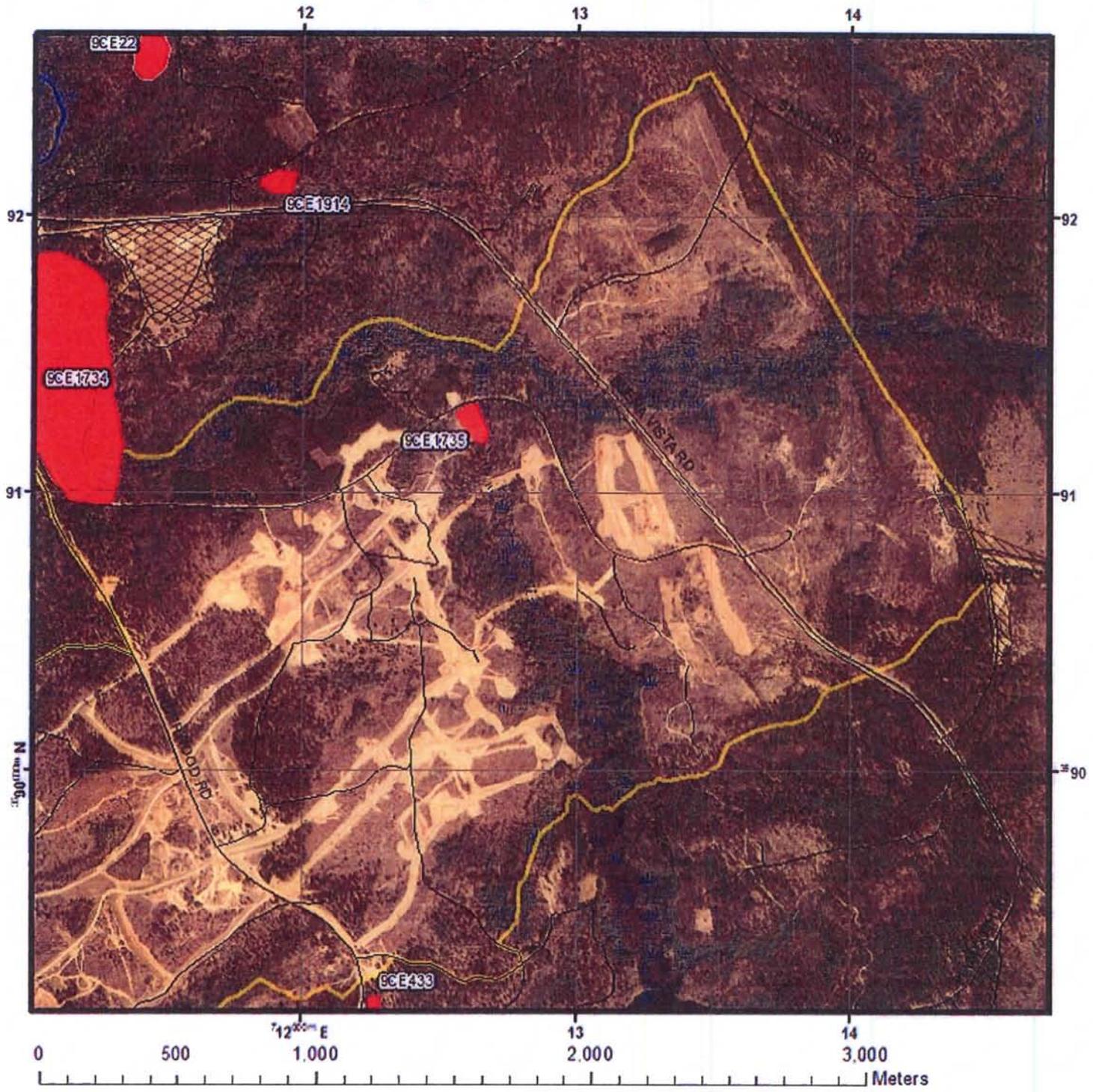
Appropriate precautions must be taken to prevent hazardous material spills. Have adequate quantities of spill response supplies on hand. If a spill occurs use notification procedures as outlined in the Fort Benning Hazardous Waste Management Plan. Contain and clean up spill according to guidance provided by the Environmental Protection Management Branch. Any waste generated must undergo a waste stream analysis to determine appropriate management requirements. If any hazardous waste is generated it must be managed in accordance with Federal, State, Army and Fort Benning regulations.

All excess, unused munitions (to include Defective, misfired, or otherwise unserviceable munitions.) must be returned to the Ammunition Supply Point after the field exercise is completed. 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/USAIC Reg. 210-4 -5-8, May 05.

Rubbish, empty containers and other waste (including used smoke canisters) should be removed from the training area after the exercise. Contact EPMB for detailed information on the proper disposal of waste products resulting from the exercise. Contact POC below for any questions or additional guidance.

Signature 
for John E Brown
NEPA Program Manager
Date 10 Feb 2012

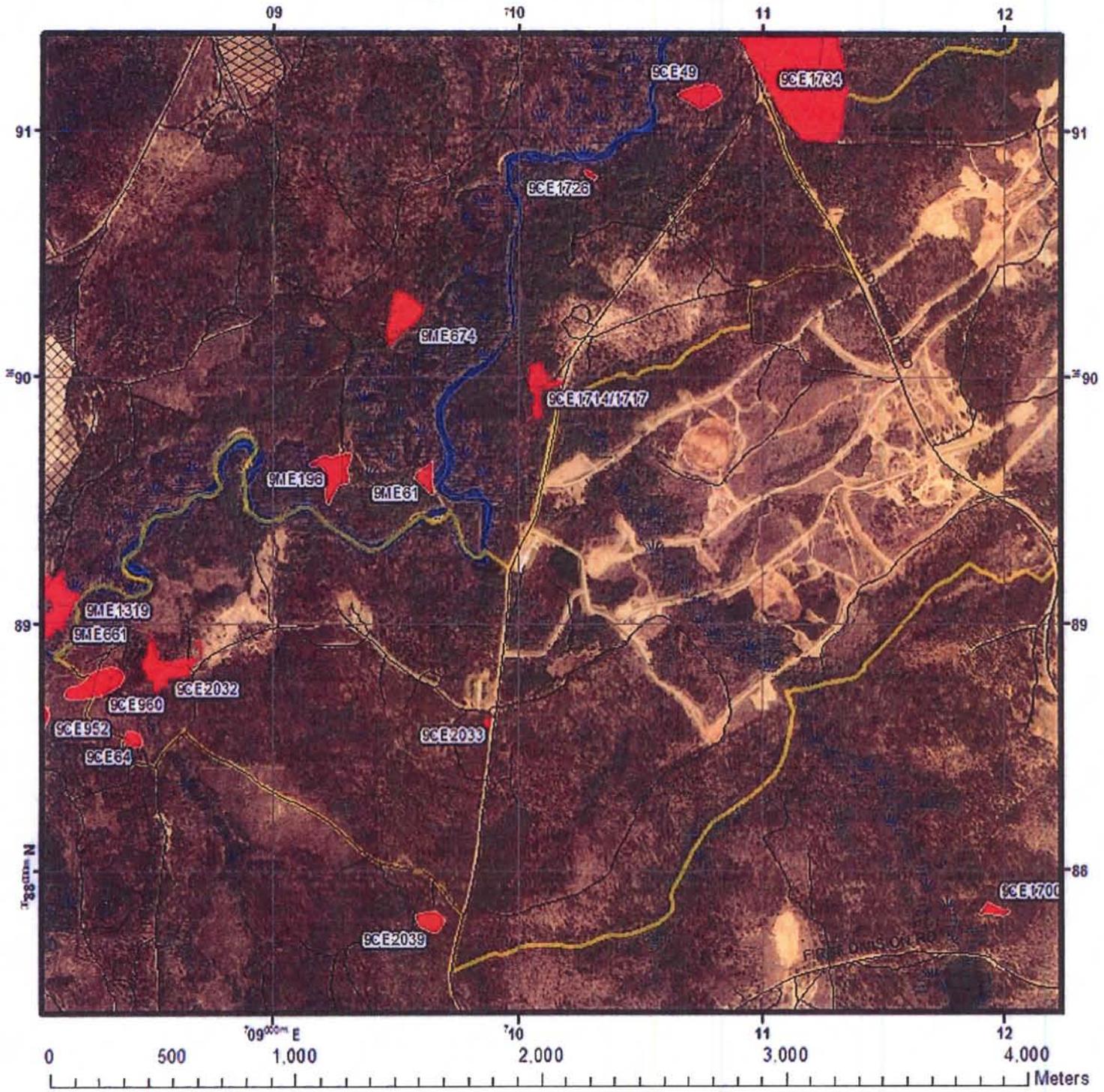
Signature 
Christopher E. Hamilton, PhD
EPMB Chief
Date 10 Feb 12



- Historic_buildings STATUS**
- Historic
 - Historic/FRL
 - Not Evaluated
 - Not Eligible
 - Not Historic
 - Demolished
 - Moved to New NIM
 - Prgm Cmt
 - Prgm Cmt/FRL

- Historic Districts Name**
- Lawson Army Airfield
 - Main Post
 - Parachute Jump Tower
 - No Vehicles or ground disturbance





**Historic_buildings
STATUS**

- Historic
- Historic/FRL
- Not Evaluated
- Not Eligible
- Not Historic
- Demolished
- Moved to New NIM
- Prgm Cmt
- Prgm Cmt/FRL

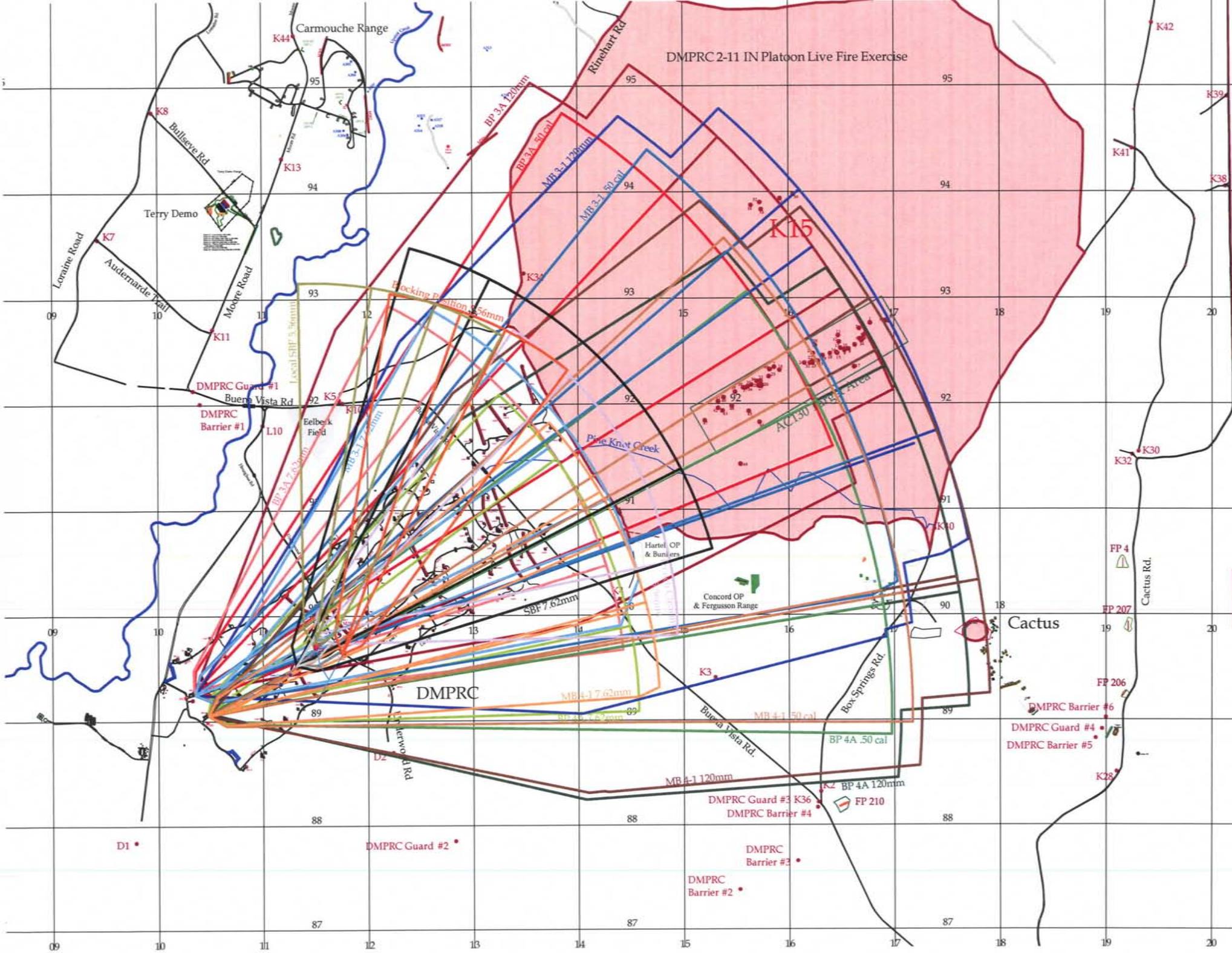
Historic Districts

Name

- Lawson Army Airfield
- Main Post
- Parachute Jump Tower
- No Vehicles
or
ground
disturbance



DPW-EPMB
Cultural Resources



DMPRC 2-11 IN Platoon Live Fire Exercise

DMPRC

Cactus

Carmouche Range

Terry Demo

Concord OP & Ferguson Range

Hartel OP & Bunkers

D1

DMPRC Guard #2

DMPRC Barrier #2

DMPRC Barrier #3

DMPRC Guard #3

DMPRC Barrier #4

DMPRC Guard #4

DMPRC Barrier #5

DMPRC Barrier #6

FP 206

FP 207

FP 4

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