

EXPIRES 11 MAY 17

FIRING/NONFIRING DATA

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

TO: Chief, Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905	Date: May 4, 2015 Range: DMPRC Title: CALFEX Problem No:	Log #3-10-15
THRU: 199th IN BDE	FROM: 2-11 IN REGT (IBOLC)	

SECTION I, TYPE OF TRAINING

a. Live Fire     b. Non-live Fire    CP/Controller Coordinates: GA 0986 8870

SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS

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

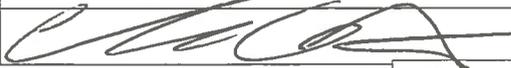
SECTION III, WEAPONS/AMMUNITION REQUESTED

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
See Weapons & Ammo List	See Weapons & Ammo List	See Weapons & Ammo List	See Weapons & Ammo List	See Weapons & 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:	Training area(s) to be occupied:
<input checked="" type="checkbox"/> Sketch of area:	
<input type="checkbox"/> Risk Assessment:	<input type="checkbox"/> Scenario of training to be conducted:
<input type="checkbox"/> Attach FB Form 350-19-2-E-R if Mortar or artillery is being fired:	<input type="checkbox"/> Sketch of area(s) to be occupied:
	<input type="checkbox"/> Risk Assessment:

Name/rank of requesting officer: CPT Earl Porter 	Name/rank of Major Unit S3/Commander: CPT Charles Ashcraft 
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SECTION VI, FOR RANGE DIVISION USE

DATE: 12 May 15

TO: 2-11 IN REGT (IBOLC)	FROM: Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905
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a. Roadblocks to be closed:	See Roadblock/Roadguard List.
b. Road(s) to be closed/road barrier locations:	See Roadblock/Roadguard List.
c. Remarks:	
d. This approval expires: 11 May 17	

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




DEPARTMENT OF THE ARMY  
HEADQUARTERS, 2<sup>ND</sup> BATTALION, 11<sup>TH</sup> INFANTRY REGIMENT  
6649 VIBBERT AVENUE  
FORT BENNING, GEORGIA 31905-6221

ATSH-TPB

7 MAY 2015

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

SUBJECT: Scenario for DMPRC CALFX

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

2. APPLICABILITY: The purpose of this memorandum is to outline the scenario for the Platoon Combined Arms Live Fire Exercise, conducted on the DMPRC. The information is provided in accordance with MCoE Regulation 350-19 which will train and evaluate Sections and Platoons on the collective tasks, as well as, individual tasks listed below. This training will gear preparedness for Sections and Platoons toward 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, as well as the familiarization to combined arms missions, use of UAV (Raven) assets for continuous situational awareness and to assist in adjusting indirect fires.

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. TC 7-9 (Infantry Live Fire Training), Sep 1993
- g. ARTEP 7-7J, MTP
- h. ARTEP 7-7J, Drill

- i. FM 23-9, M16/M4
- j. FM 23-14, M249 Light Machine Gun
- k. FM 3-22.68 Crew-Served Machine Guns
- l. FM 3-23.30, Grenades and Pyrotechnics
- m. FM 1-100, Army Aviation Operations
- n. FM 1-112, Attack Helicopter Operations

4. SCHEDULING: Each unit 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-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. Occupying 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 occupying 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. Occupying 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 Division Alpha Base.

e. Occupying 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.

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 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 of the event. The Cease Fire will remain in effect until cleared through Range Division Alpha Base.

g. The mortar firing point will be located at MFP 207, just north of Cactus. In the event of a misfire/hang fire, Range Division Alpha Base will be immediately notified and the range will go into a check fire. In the event of a short round or a round out of the safety area, Range Division Alpha Base will immediately be notified and the range will go into a Check Fire and will not resume firing until cleared through Range Division Alpha Base. The alternate location for fires observation will be located at Cactus OP.

h. The OIC or RSO must maintain constant situational awareness of the situation on the range and maintain constant contact with all assigned road guard positions during the execution of the live fire. If contact is lost between the OIC and RSO at any point with any of the road guard positions then the entire range must be put into Check Fire immediately. All Check Fires will be reported to Range Division Alpha Base and cleared through the same before resuming training.

i. When an ammunition malfunction is experienced, the OIC/RSO will Cease Fire and immediately notifies Range Division Alpha Base. 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 and DOL.

6. REQUIREMENTS: A specific operation 350-19-E-R/scenario package will be prepared by the units for the DMPCRC and approved by Chief, Range Operations. All supporting documents; i.e. regulations, field manuals, TMs, etc. with an approved 350-19-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 and safety briefing, to include location of dud areas, medical procedures, loading and clearing weapons, misfire procedures, emergency Cease Fire signals, etc. Only weapons and ammo listed on the approved FB Form 350-19-1-E-R/scenario package will be allowed on the range. The Post ASP may substitute acceptable ammo based on availability and munitions effects. 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 in 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 DMPCRC. 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 Division Alpha Base. Field Litter Ambulance (FLA) will be located IAW the Commander's/OIC's 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 IVO DMPRC Operations building, located VIC GA 098 887.

9. AMMO POINTS: There will be an ammo point established on DMPRC and one ammo point at Cactus Old OP, the FARP location. No open flames will be allowed within 50 feet and two 10 pound bicarbonate fire extinguishers will be available at all times at the ammunition points and will be monitored at all times. All ammunition will be issued and unused ammunition will be turned into the Ammunition NCO and logged. The ammo NCO will be Ammo Handler certified. Ammunition will be marked and physically separated at all times by type and 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 and 2 guards.
- (4) The ASPs issue to each Soldier 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 (BFA) 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 circumstance a round is fired near the vehicles and/or dismounted elements goes out of sector the OIC, RSO, Safety personnel, Master Gunner will immediately call Cease Fire, notify Range Control and conduct the necessary steps to locate the round(s).

(10) If Soldiers/Range Cadre finds an Unexploded Ordinance (UXO) or DUDs, they will immediately Cease Fire, contact Range Division Alpha Base and await EOD. The Cease Fire will remain in effect until cleared through Range Division Alpha Base.

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/follow 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 instrumentations 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 platforms/personnel, 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, both ground and aerial, will only fire at approved 350-19-1-E-R target listing.

(2) Maintains efficiency throughout.

(3) Maintains required communications.

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

b. The RSO:

- (1) Supervise all details.
- (2) Controls the movement of vehicles and personnel to include aerial and ground vehicles
- (3) The weapons systems-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 the end of each exercise in the 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 listings.

c. The Master Gunner:

- (1) Ensure that 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 unapproved 350-19-1-E-R target listings.

## 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/scenario during fire 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 a Cease Fire.

(2) All weapons will be discharged downrange and within the designated Left and Right 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 iteration IOT 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 no flag: Vehicle has no ammunition on board.

b. Displays Green flag: Vehicle has ammunition on board.

c. Displays Red flag: Ammunition on vehicle, preparing to negotiate course electrical and manual safeties engaged.

d. Displays Yellow and Green 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 Multipurpose Complex (DMPRC) in six (4) phases:

(1) Prepare for Combat

(2) Movement

(3) Enemy Encounters

(4) Consolidation and Reorganization

b. The Live Fire Exercise (LFX) involves fire and maneuver into an objective area with the incorporation of various combat enablers. The OIC for the operation will be a SFC IAW 350-19. For the purpose of this operation, 2-11 IN will ensure that the Platoons are organized to facilitate the training objectives. Vehicles will be uploaded with their respective ammunition type (TPT 25 mm chain gun, .50 cal, 120mm TPT, TPDS-T and 7.62mm COAX) at the vehicle ammo point. Vehicle Commanders will ensure that their vehicles are on electrical and manual safe while uploading ammunition and on electrical safe while moving down range and not engaging targets. Dismounts will load weapons system once dismounted from vehicles at the dismount point. Squad/Platoon Leaders will enforce weapon orientation (muzzle towards ground). Mounted personnel will have weapons on Amber Status (magazine in well, bolt forward, no round in chamber). All open bolt weapons will be cleared and have no ammunition in them; all bolts will be forward. 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 Commander, S-3, and Master Gunner. 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/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 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 location and the Infantry Platoon loaded on the vehicles (BFV 1-4). 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 O/C and Range Cadre present. The OPORD, key leader back-briefs and rehearsals will take place in areas designated by the Company Commander. This phase ends with Tank 1 and Tank 2 in the AA (GA 1004 8934). And Infantry Platoon mounted in their respective BFV at respective BP. The Platoon Assault Squad will be in Vehicle 1 (BP4A); Support By Fire (SBF) Squad in Vehicle 2 (BP5A), the Breach Squad in Vehicle 3 (BP4A) and Weapons Squad will be loaded in Vehicle 4 (BP5A).

(2) Phase 2- Movement: This phase begins with the Infantry Platoon mounted in the AA and ends with both BFVs in their respective BPs at LD Oregon. All weapon 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).

(3) Phase 3- Enemy Encounters: This phase with Platoon BFVs at LD and ends with all Vehicles, Tanks and the Platoon lifting fire on OBJ Honey Pot. Key tasks are engaging targets while moving, bounding, clearing obstacles, and use of UAV (Raven/ Instant Eye/ Shadow), Call-for-Fire and combined arms synchronization.

i. FIRST ENGAGEMENT: Tank 1 and 2 are in defensive positions and are the front line trace of their unit. Infantry Platoon will Conduct L/U procedure and passage of lines. Before passing LD Oregon, Tank 1 and 2 will engage known enemy positions in their sector of fire, then conduct battle hand over the infantry platoon, completing the passage of lines. BFV 1 will provide overwatch while BFV 2 bounds to PL Texas. BFV 1 (BP4A) will conduct a defensive engagement while BFV 2 conducts offensive engagement along RTE Hurricanes (see target list). Once both BFVs have engaged, they will then immediately put all weapons on safe and report Battle Damage Assessment (BDA) (see concept slides).

ii. SECOND ENGAGEMENT: BFV 2 provides overwatch from PL Texas while BFV 1 bounds to PL Texas. On order BFV 1 will begin advancing along RTE Gators toward PL Texas. BFV 1 will engage enemy targets while advancing. BFV 2 will provide over watch and engage enemy as they appear within its sector of fire (see target list and concept slides). Once at PL Texas, both BFVs will place all weapon systems on electrical and manual safe (keeping all weapons systems orientated downrange) and conduct over watch. Both BFVs will then report phase line and BDA.

iii. THIRD ENGAGEMENT: PL will receive ISR report of an Anti-Armor Teams. BFV 1 will continue to provide overwatch and engage targets with-in its sector of fire as they are presented. BFV 2/4 will dismount Troops (VIC GA 1102 8924). Troops will clear NAI 2. Dismounts will make contact with a small anti-armor team and assault through using IMT. The Squad will conduct EPW, Aid and Litter, and hasty SSE. Once the threat is destroyed the squad will call BFV 2 forward to provide forward security and remount (see target list and concept slides). BFV2 will hold at PL Alabama.

iv. FOURTH ENGAGEMENT: BFV 2 provides overwatch while dismounts form BFV1/3 clear NAI 1. BFV 1/3 will dismount VIC PL Texas and RTE Gators. Dismounts will clear NAI 1 along route Gators. Dismounts will make contact with a small anti-armor team and assault through using IMT. The Squad will conduct EPW, Aid and Litter, and hasty SSE. Once the threat is destroyed the squad will call BFV 1 forward to provide forward security and remount (see target list and concept slides). BFV1 will hold at PL Alabama.

v. FIFTH ENGAGEMENT: BFV 1 will provide overwatch while BFV 2 bounds forward. BFV 1 will engage targets in its sector as presented. BFV2 begins advancing and makes visual contact with a wire obstacle (GA 1179 8945). BFV2 engages and destroys personnel target (vic obstacle), then deploys infantrymen to breach obstacle using the principles of SOSRA. Infantry move to the right and left masked by the terrain and establish a Local SBF 1 (vic GA 1180 8942) and Local SBF 2 (vic GA 1177 8946). The SBF positions suppresses enemy targets in their sector of fire and deploys smoke grenades to obscure the obstacle. The team then reduces the obstacle with wire cutters (or APOD simulator). Once the lane is open, the PL signals BFV2 to advance through the breach and establish a foothold on the far side. (see target list and concept slides)

vi. SIXTH ENGAGEMENT: The Platoon leader will deploy UAV IOT enhance situational awareness and conduct aerial reconnaissance on the SBF, OBJ Honey Pot and adjust IDF. UAV reconnaissance identifies enemy armor assets IVO OBJ Honey Pot triggering the Platoon Leader requests support from an adjacent tank unit. The PL will request IDF on the OBJ area. FP 207 will begin suppression fires into the impact area (see IDF target list). The Platoon Leader will shift 120mm mortars to farther targets in the Impact area and initiates 81mm Mortar on the Impact area once the lead tank crosses PL Oregon. Armor will move in traveling over watch on RTE Tar Heels and RTE Gamecocks from PL Oregon to PL Florida. All weapon systems will be on electrical and manual safe keeping weapons systems orientated downrange (see concept slides).

vii. SEVENTH ENGAGEMENT: Tank section will use bounding overwatch to move into battle positions. Tank 2 will move into position on RTE Blue Devils (vic GA 1181 9036) and engage targets as presented. Then Tank 1 moves to BP1B (GA1175 9065). Once Tank 1 reaches it's BP it will engage targets in its sector of fire as presented (see target list). Tank commander will report that the enemy armor is suppressed.

viii. EIGHTH ENGAGEMENT: Infantry will occupy SFB Positions as designated by PL's OPORD and approved by range safeties. The PL will order his Troops to infill SFB positions. All BFVs will dismount at PL Florida and begin movement to the dismounted SFB (vic GA117 898) and 60 mm mortar firing position on the flank of the dismounted SFB. Once all dismounts are clear of the roads, BFVs will advance to Occupy battle positions (vic GA 1211 8986, GA 1225 8936, GA 1215 8977, and GA 1176 9023) Tanks, BFVs, and the SFB will engage targets IVO OBJ Honey Pot. O/C will provide injects from the IDF target list for the 60mm Mortars and utilize a Cartridge, 9-mm practice AT4 tracer bullet trainer to engage enemy targets (see target list and concept slides).

ix. NINTH ENGAGEMENT: A notional Friendly Assault Element will move from north to south to clear OBJ Honey Pot. Friendly SFB forces will shift fire with the movement of the element. Shifting and Ceasing fire in sequence from left to right.

x. TENTH ENGAGEMENT: indirect assets will engage targets in the K15 area (see concept slides and target list). Cactus OP will be alternate observer locations to control IDF. Platoon will conduct MEDEVAC, concolide, and reorganize.

#### c. Approach Option Bravo

i. FIRST ENGAGEMENT: Tank 1 (BP1A) and Tank 2 (BP5A) will conduct a simultaneous defensive engagement from their respective BPs and report Battle Damage Assessment (BDA) (see concept slides).

ii. SECOND ENGAGEMENT: Tank 1 will begin movement along Lane 1 (RTE Tar Heels) and engage one truck target with the main gun and one troop target with its COAX machine gun. Tank 1 will continue to move along Lane 1 (RTE Tar Heels) to PL Texas (see target list and concept slides). Once at PL Texas, Tank 1 will conduct over watch. Tank 1 will report phase line and BDA. Tank 2 remains in BP 5a and Infantry Platoon remains at LD Oregon along RTE Gamecocks and RTE Gators. (see concept slides)

iii. THIRD ENGAGEMENT: Tank 2 advances from BP 5A along Lane 5 (RTE Hurricanes) to PL Texas and engages one truck target with main gun and one troop target with COAX machine gun while advancing (see target list). Once PL Texas Tank 2 will report phase line and BDA.

iv. FOURTH ENGAGEMENT: Tank 1 and 2 will conduct battle hand over to the Infantry Platoon. The Infantry Platoon will move mounted from LD Oregon with BFV 1, 2 moving along RTE Gamecocks to PL Alabama and Vehicles 3 and 4 moving from LD Oregon along RTE Gators. Once at PL Alabama BFV 3 will edge forward to observe OBJ Ravens. On order BFV 3 will engage OBJ ravens from SBF position 1, utilizing 25mm and below munitions (see target list). Vehicle 1 will establish ABF position and engage targets IVO OBJ Ravens. Vehicle 3 will shift fire right, then Vehicle 1, 2 move forward along RTE Gamecocks and establish SBF 2 IVO OBJ Ravens.

v. FIFTH ENGAGEMENT: BFV 1 will continue suppressing the objective. BFV 3 will Lift Fire and advance to the dismount point. The Infantry Platoon's Weapons Squad will dismount from Vehicle 3 at PL Georgia and occupy the SBF and assault positions and immediately begin engaging targets oriented on OBJ Ravens (see target list). BFV 1 will Shift Fire left (7.62mm and below) once the assault element is effectively suppressing OBJ Ravens (see targets list).

vi. SIXTH ENGAGEMENT: BFV 1 will continue to suppress with 7.62 and below from TRP 5 to TRP 3. The SBF will shift fires right. The Assault Squad will maneuver to the Southern end of the trench system on OBJ Ravens. The Assault Squad will secure a foothold and prepare to clear the trench system. Before the Assault Squad begins moving through the trench system, SBF 2 will Lift Fire and confirm the Lift Fire with the Assault Squad before clearing from the Southern end to the Northern end of the trench system on OBJ Ravens. The Assault Squad will engage targets with 5.56mm weapons systems and below (see target list). Cadre will follow the front line trace of the trench system. Once the Assault Squad reaches its LOA and reports they will establish security, conduct EPW, Aid & Litter, tactical site exploitation and prepare to withdraw from the OBJ.

vii. Scenario will continue as listed in paragraph 14.b. above.

(4) Phase 4- Consolidation and Reorganization: Phase begins with all Vehicles and Platoon Lifting Fire and ends with the units cleared of the range for that iteration. Key tasks for this phase are coordination and movement with MEDEVAC and successful clearing of range.

h. MEDEVAC: Range Cadre will assign notional casualties. Platoon Sergeant will oversee casualty assessment and send 9-line MEDEVAC report. Platoon Leader will utilize BFV 3 & 4 to move all casualties to the MEDEVAC pick-up site (see concept slides). Once at the MEDEVAC location dismounts will clear and secure the area while BFV 1 and BFV 2 conduct over watch on main avenues of approach along RTE Gators and RTE Hurricanes (No Fire).

c. Once the iteration is complete, all individuals' weapons will be cleared by Team Leaders, all crew serve weapon systems will be cleared by O/Cs 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 (Dry, Blank, Live).

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

15. SAFETY:

a. During Gunnery operations all vehicles will maintain communications with DMPRC ROC at all times. If communications go down all movement 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 listings.

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

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

g. A FLA with qualified medics will be present through the duration of the Gunnery.

h. All Vehicles will be cleared onto and off execution line by the RSO 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, Platoon Sergeant and Platoon Trainers. O/Cs will position themselves with any maneuvering or firing element to include the Support By Fire (SBF), Breach, Assault and Weapons Squad.

k. Left and Right Limits will not exceed what has been attached in the enclosed documents and McoE Form 350-19.

l. Dismounts will load weapon systems once dismounted from the Vehicles at the designated dismount point. Squad/Platoon Leaders will enforce weapon orientation (muzzle towards ground). Mounted personnel will have weapon 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 vehicle. Ammunition will be removed; bolts will be placed in the forward position prior to the rounds being placed on the feed tray.

o. After Shift Fire has 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 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 (Para. 7). The following information will be furnished by the OIC/RSO to Range Operations:

- (1) Designation of Unit.
- (2) Range and Location.
- (3) Type of weapon(s) involved.
- (4) Type of ammunition(s) involved.
- (5) Brief summary of what happened.
- (6) Personnel injuries and extent.
- (7) Full Name, SSN, Rank and Unit of injured personnel.
- (8) Extent of property damage.
- (9) Intentions regarding an AR 15-6 investigation.

q. LASER'S: 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 placed prior to opening the range. Range safety briefing will include hazards using Lasers and NVDs.

r. The OIC or RSO must maintain constant situational awareness on the range and maintain constant contact with all assigned road guard positions during the execution of the Live Fire. If contact is lost between the OIC and RSO at any point with any of the road guard positions the entire range must be put into a Check Fire immediately.

s. All unused charges will be disposed IAW MCoE Reg 350-19 and be conducted as part of training.

t. Vehicle flags will be displayed IAW MCoE Reg 350-19, Para. 5-28

#### 16. Signals:

a. Communications will be maintained between all key maneuvering elements and Range Cadre/Personnel. (This will include but not limited to: Vehicle to Vehicle, Vehicle to Control Station, Dismounts to Control Station, Dismounts to Vehicles, Vehicle to Target Operators and Target Operators to Control Station). If communication is lost, Live Fire will Cease until communication is restored.

b. Means of signaling Shift/Cease fire will be:

- (1) Primary: FM communications.

- (2) Alternate: White Star Cluster.
- (3) Contingency: Green Smoke.
- (4) Emergency: VS-17 Panels.

c. Company Cadre will be with each Squad to confirm receipt of signals by tactical radios.

d. Emergency Cease-Fire signals will be briefed prior to start of all training exercises.

e. Emergency Cease-Fire signal will be RED SMOKE held by the SBF and Assault Elements O/Cs.

f. All signals will be included in the initial briefing. Anyone observing any unsafe act and call Cease-Fire.

17. POC for this memorandum is CPT Charles C. Ashcraft at (706) 545-4281.



John M Grantz  
LTC, IN  
Commanding



# RECORD OF ENVIRONMENTAL CONSIDERATION REC



**EMD Number:** 1511104x2

**Project#:** 07176713

**Project Title:** COMPANY MOUNTED OPS / SECTION LIVE FIRE

**Description of Proposed Action:**

RE: EMD# 1502203, 2-11 IN will execute a Platoon Live Fire Exercise (dismounted) on Objective Ravens (Trench System) on the DMPCRC in conjunction with a mounted Support by Live Fire (M1A2/M2A2/M126). Intent is to allow tanks to fire both inert 120mm, as well as .50 caliber and coax, and allow the BFVs/Stryker ICVs to fire 25mm Sabot, .50 caliber and coax. Additionally, the training unit will be supported with 120mm, 81mm, Mortars from Mortar Firing Point (MFP) 207 into impact area K15. The intent is for tanks to occupy battle position 3A, MB 3-1, battle position 4A, MB 4-1 and BPs at GA 12168 90542 and GA 12642 89905. Bradley Fighting Vehicles and or Stryker Infantry Carrier Vehicles will occupy BPs at GA 11257 89450, GA 11167 89355, 11432 89832, GA 12425 90222, GA 12495 90139, GA 12570 90036, GA 12608 89972, GA 13554 90688 and GA 13661 90585. There will be no digging and there will be no disruption to the land, trees, existing battle positions/fighting positions or the trench system. Ammunition: 120mm/25mm TPT, 120mm mortar HE, .50 Cal, 81mm HE, 7.62/5.56mm ball and blank, 40mm TPT, 9mm tracer (AT-4 simulator), Hoffman, 60mm FRTR, 81mm, 60mm mortar TPT.

**Project Location:**

DMPCRC, FP 207, Cactus OP

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

None

**Number/Types of Vehicles:**

Yes.  
How many vehicles and what type of vehicles will be involved? 10-12

**Number of Personnel:**

160-200

**Type of Ammunition:**

Yes - Type of Ammunition:  
120mm/25mm TPT, 120mm  
Ammo Live and Blank

**Number/Types of Trees:**

None

No. Vehicles will not be taken off road.

**Types of Aviation:**

UAV

**Other Concerns:**

None

**Size of Project Area:** 20 Acres

**Duration of Action:** Start:5/11/2015 Stop:9/30/2015

**Proponent:** Charles C. Ashcraft 706-545-4286

**Unit, Section or Dept:** IBOLC/2-11

**Decision: Concur with conditions**

This Action is adequately covered in the Existing EIS 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."

## Training Is Approved Through September 30, 2015

**Hazardous Materials/Waste**

**Conditions:**

Carlos Ariasochoa (706-545-1857), 4/23/2015

**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

**EMD Number:** 1511104      **Project#** 07176713

**Project Title:** COMPANY MOUNTED OPS / SECTION LIVE FIRE

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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.

All tanks, drums and other hazardous material containers used on site must be properly labeled and kept closed when not in use. Any above ground storage tanks used for fuel such as 5 gallon cans of fuel and other petroleum products to include fuel dispensing vehicles must have impervious secondary containment of adequate size to contain 100% of the tank or container contents. This also applies to drums used for the storage of petroleum products and used oil.

Any wastes generated must be evaluated for their hazardous characteristics and disposed off in accordance with all Federal (40 CFR), State (EPD 391-3-11) and Fort Benning Hazardous Waste Regulations. Flameless Ration Heaters in the Meals Ready to Eat must be activated before being disposed as a solid waste. Materials must be stored within secondary containment or within a building/Hazmat locker out of the weather to prevent discharge to the environment in case of a spill. 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 Installation Spill Contingency Plan and 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). Drip pans must be available for all military vehicles to prevent oil and other petroleum products from spilling onto the soil. All spills of petroleum products to the ground must be immediately cleaned up and disposed of in accordance with Fort Benning policy. The EPMB provides an 8 hours course covering Hazardous Materials/Waste Management, Hazardous Waste Minimization, Safety, and Pollution Prevention. It is highly recommended that personnel conducting the event attend the training offered.

**Cultural Resources - Archeological**      **Conditions:**      **Edward Howard (706-545-1898), 4/23/2015**

See attached PDF maps for reference. See "Sensitive Area" signs attachment for appearance of the signs. The project area contains federally protected sensitive sites. These sites may or may not 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. Resubmittal is required if submitted project is modified in any way.

**Natural Resources - TES**      **None**      **Mark Thornton (706-544-7079), 4/30/2015**  
No Comment.

**Solid Waste/Recycling**      **None**      **Dorinda Morpeth (706-545-5337), 4/24/2015**  
No Comment.

**Water Quality Programs**      **None**      **Hugh Westbury (706-545-4208), 4/22/2015**  
No Comment.

**Noise**      **Conditions:**      **Ellis Leeder (706-545-2400), 4/22/2015**  
Training has been analyzed as part of the Installation Operational Noise Management Program (IONMP) study. Approved for use according to approved range packet from Range Operations. Any noise complaints will be investigated and recommend mitigation actions to the appropriate personnel for the training actions. This 144r must be present at the training site when occupying compartments or any firing ranges.

**CWA - Training**      **Conditions:**      **Felix Seda (706-545-9879), 4/21/2015**

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 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

**EMD Number:** 1511104      **Project#** 07176713

**Project Title:** COMPANY MOUNTED OPS / SECTION LIVE FIRE

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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.

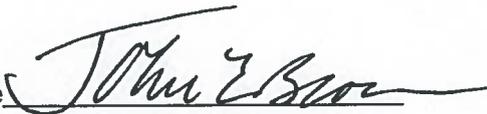
General ISCP Requirements: In the event of a spill/discharge – notify Range Control by radio or call 544-6291, and they will notify E-911 for Fire Department/HAZMAT Team assistance and/or notification of the EMD office (Spill Beeper 706-317-6584). As appropriate, and if personnel are trained – REACT 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.

**Natural Resources - RCW**

**Conditions:**

**Jonathan Neufeldt (706-544-7705),  
5/8/2015**

All shots originally planned on the southeastern edge of the DMPRC are to be changed as agreed upon during range walk with members of 2-11, CB, RD, DPTMS and NEPA. Purpose is to avoid impacts to RCW. USFWS received a letter of administrative record regarding this training due to the novelty of the use of the electronic/moving small arms targets. HE rounds fired from mortars will impact in the K15 duded impact area, not on the range. No impact to RCW is expected since no shots should be taken towards the wood line in training areas D1-4 and K37.

Signature 

Reviewed By

John E Brown

NEPA Program Manager

Date 11 MAY 2015

Signature 

Approved By

Patrick R. Chauvey

EPMB Chief

Date 11 MAY 2015

TRAINING ACTIVITY WITHIN 200' BUFFER ZONE	
Maneuver and Bivouac:	
Hasty defense, Light Infantry, Hand digging only, 2 hrs max	yes
Foot Transit	yes
Wheeled Vehicle Transit	yes (1)
Cutting Hardwood Camouflage	yes
Vehicle Maintenance, 2 hrs max	yes
Hasty defense, Mechanized Infantry/Armor	no
Deliberate Defense, Light Infantry	no
Deliberate Defense, Mechanized Infantry/Armor	no
Established Command Post, Light Infantry	no
Assembly Area Operations, Light Infantry, Mech Infantry/Armor	no
Established CS/CSS Sites	no
Weapons Firing:	
7.62mm and Below Blank Firing	yes
.50 Cal Blank Firing	yes
Artillery Firing Position	no
MLRS Firing Position	no
All Others	no
Noise:	
Artillery/Hand Grenade Simulators	yes
Hoffman Type Devices	yes
Generators	no
Pyrotechnics/Smoke:	
Smoke, Haze Operations, Generators or Pots	yes (2)
Smoke Grenades	yes
Star Cluster/Parachute Flares	yes
Incendiary Device to Include Trip Flares	no
CS/Riot Gas	no
HC smoke of Any Type	no
Digging:	
Hasty Individual Fighting Positions, Hand Digging Only	yes
Tank Ditches	no
Deliberate Individual Fighting Positions	no
Crew-served Weapons Fighting Positions	no
Vehicle Fighting Positions	no
other survivability/Force Reduction positions	no
Vehicle Survivability Postings	no

Note: Yes means that the activity may be conducted within 200 feet of a marked cavity tree

- (1) Vehicles (wheeled) will not get closer than 50 feet of a marked cavity tree unless on an existing road or trail; tracked vehicles may use named roads and trails that pass within 50 feet of a banded cavity tree but should reduce speed
- (2) Smoke generators and smoke pots will not be set up within 200 feet of a marked cavity tree, but the smoke may drift inside the 200 foot buffer

	Vehicle/Personnel	Location	Weapons	Ammunition	Targets	Grids	Left Limit Deg's Grid Azimuth	Right Limits Deg's Grid Azimuth
Engagement 1	Tank 1 (BP1A)	1018 8960	M1 Tank 120mm M240C	M831, M865, M1002 7.62mm Ball/Tracer	SA 47 (Light Skin) M101 (Tank)	SA: 1049 8980 M: 1121 9020	56 60	58 73
	Tank 2 (BP3A)	1034 8928	M1 Tank 120mm M240C	M831, M865, M1002 7.62mm Ball/Tracer	SA 4, 6, 7	SA: 1090 8964, 1103 8985, 1141 9001	50	58
	BFV 1 (BP4A)	1046 8907	M242, M240C	25mm (M793, M910) 7.62mm Ball/Tracer	SA 2, 4, 7 T4, 8, 13 (7.62)	SA: 1080 8923, 1049 8980 T: 1094 8923, 1078 8942, 1075 8926	37 39	67 73
	BFV 2 (MB 5-1)	1082 8859 to 1108 8881	M242, M240C	25mm (M793, M910), 7.62mm Ball/Tracer	SA 1, 13 T 5 (RHHT), 6 (7.62)	SA: 1136 8917 T: 1116 8892	18 29	40 45
Engagement 2	BFV 1 (MB4-1)	1048 8905 to 1067 8909	M242, M240C	25mm (M793, M910), 7.62 mm Ball/Tracer	SA 3, 9, 13, 63 T 13, 15 (7.62)	SA: 1172 8983	(25mm) 54 (7.62) 24	(25mm) 76 (7.62) 76
	BFV 2 (IVO T6)	1120 8889	M242, M240C	25mm (M793, M910), 7.62mm Ball/Tracer	SA 1, 63, M301	SA: 1136 8917	11	41
Engagement 3	BFV 1 (IVO SA2)	1080 8913 to 1087 8915	M242, M240C	25mm (M793, M910), 7.62mm Ball/Tracer	SA 8, 9 T 4, 15	SA: 1158 8987, 1172 8983 T: 1094 8923	44 34	52 76
	Dismounts (IVO T6)	1114 8898 to 1118 8895	M4, M249, M203	5.56mm Ball/Tracer, 40mm TPT	RHHT's IVO VIC T5	T: 1120 8902	5	70
Engagement 4	Dismounts (IVO M301)	1118 8942 to 1114 8946	M4, M249, M203	5.56mm Ball/Tracer, 40mm TPT	Self Placed Dismounts	IVO 1119 8948	10	70
Engagement 5	BFV 1 (IVO M301)	1126 8950	M242, M240C	25mm (M793, M910), 7.62mm Ball/Tracer	SA 8,9,12 T 12	SA: 1158 8987, 1172 8983, 1162 8998 T: 1150 8970	35 47	55 53
	Dismounts LSBF1	1176 8949 - 1178 8947 - 1175 8948 - 1175 8945	M240B, M4, M249, M203	7.62mm Ball/Tracer, 5.56mm Ball/Tracer, 40mm	RHHT's	IVO SA10	9	57
	Dismounts LSBF2	1180 8942	M240B, M4, M249, M203	7.62mm Ball/Tracer, 5.56mm Ball/Tracer, 40mm	RHHT's	IVO 1185 8952	10	62
	Mortars	FP 207	Mortars	120mm, 81mm	K15	See 350-19-2	See 350-19-2	See 350-19-2
	BFV2	1152 8921 (IVO M301)	Coax	7.62mm Ball/Tracer	RHHT's	1177 8946	30	50
Engagement 7	Tank 2 (225m West of BP2B)	1180 9036	M1 Tank 120mm M240C	M831, M865, M1002 7.62mm Ball/Tracer	SA 54, 55, 57, 59, 61 M 103, 104	SA: 1330 9190, 1374 9178, 1324 9166, 1383 9166, 1331 9197 M: 1314 9202, 1347 9236	43 38	58 49
	Tank 1 (IVO BP 1B)	1175 9070	M1 Tank 120mm M240C	M831, M865, M1002 7.62mm Ball/Tracer	SA 23, 64 T 38, 39, 53 M102	SA: 1252 9138, 1199 9091 T: 1184 9080, 1247 9142, 1225 9091 M: 1300 9197	43° 29° 44	72° 65° 56

	Vehicle/Personnel	Location	Weapons	Ammunition	Targets	Grids	Left Limit Deg's Grid Azimuth	Right Limits Deg's Grid Azimuth
Engagement 8	Tank 1	1175 9065	M1 Tank 120mm M240C	M831, M865, M1002 7.62mm Ball/Tracer	Same as Engagement 7	Same as Engagement 7	Same as Engagement 7	Same as Engagement 7
	Tanks 2	1180 9036	M1 Tank 120mm M240C	M831, M865, M1002 7.62mm Ball/Tracer				
	BFV 1 (BP4B)	1211 8986	M242, M240C	25mm (M793, M910), 7.62mm Ball/Tracer	SA30, 33, 42	SA: 1222 9009, 1262 9032, 1320 9046	26°	62°
					T20, 31	T: 1229 9002, 1296 9071	44°	52°
	BFV 2 (BP 6B)	1225 8936	M242, M240C	25mm (M793, M910), 7.62mm Ball/Tracer	SA35, 60	SA: 1337 9020, 1269 9017,	27°	53°
					T19, 25, 32, 35	T: 1287 9006, 1298 9003, 1309 9051, 1325 9017	35°	52°
	BFV3 (165m East of North End of M201)	1176 9023	M242, M240C	25mm (M793, M910), 7.62mm Ball/Tracer	SA40, 48, 49, 53	SA: 1292 9082, 1310 9088, 1323 9093, 1314 9112	40°	67°
					M204	M: 1319 9119	46°	49°
	BFV4 (MB5-2 Start)	1215 8977	M242, M240C	25mm (M793, M910), 7.62mm Ball/Tracer	SA33, 41, 42, 43, 48	SA: 1262 9032, 1320 9066, 1320 9046, 1327 9085, 1310 9088	40	57
					T28	T: 1273 9029	46	49
					M302	M: 1333 9065	53	68
	Dismounts	1175 9000 to 1182 8988	M4, M249, M203, M136	5 56mm Ball/Tracer, 40mm	Self Placed Dismounts		45°	70°
Dismounts (AT4)	1181 8986	AT4	9mm Tracer	Vehicle Hulk	1205 9020	25	45	
Dismounts (Mortars)	Same as Dismounts	Mortar	60mm (FRTR)	Vehicle Hulk	IVO 138 909, 142 905, 141 911	60	77	
Engagement 10	Tanks 1 & 2, BFV 1 & 2, Dismounts (Lift Fire in Sequence Left to Right)	Same as Engagement 8	Same as Engagement 8	Same as Engagement 8	Same as Engagement 8	Same as Engagement 8	Same as Engagement 8	Same as Engagement 8

**DMPRC, 199th, 2-11 PLT CALFEX (Log #3-10-15) Weapons Ammo List Enclosure 5 MAR 2015 PAGE 3 of 3**

	Vehicle/Personnel	Location	Weapons	Ammunition	Targets	Grids	Left Limit Deg's Grid Azimuth	Right Limits Deg's Grid Azimuth	Grid
<b>Approach Option 2</b>									
B1	Tank 1 (BP 1A)	1030 8978	M1 Tank 120mm M240C	M831, M865, M1002 7.62mm Ball/Tracer	SA 6	1103 8985	60	73	
					M101	1121 9020			
	Tank 2 (BP 5A)	1084 8858	M1 Tank 120mm M240C	M831, M865, M1002 7.62mm Ball/Tracer	SA 13	1121 8923	27	45	
					M301	1133 8952			
B2	Tank 1 (MB5-1 Start)	1082 8859	M1 Tank 120mm M240C	M831, M865, M1002 7.62mm Ball/Tracer	SA7	1141 9001	58	75	
					M201	1166 9007			
B3	Tank 1 (MB 1-1 Stop)	1032 8962	M1 Tank 120mm M240C	M831, M865, M1002 7.62mm Ball/Tracer	SA 5, 6, 47		44	78	
					M201	1166 9007			71
B4	BFV 3 (IVO North End of M301)	1127 8952	M242, M240C	25mm (M793, M910), 7.62 Ball/Tracer	SA9, 10, 12	1172 8983, 1182 8955, 1162 8998	47	75	
	BFV 1 (Lane 3)	1115 8957 to 1142 8982 (Moving)	M242, M240C	25mm (M793, M910), 7.62 Ball/Tracer	SA7, 8, 12	1141 9001, 1158 8987, 1162 8998	24	56	
B5	BFV 1 (75m West of Trench Lane 3)	1142 8981	M242, M240C	25mm (M793, M910), 7.62 Ball/Tracer	(25mm) SA 8, 12 (7.62mm) Self Placed IVO Trench	IVO OBJ Ravens (Trench)	(25mm) 47 (7.62mm) 47	(25mm) 70 (7.62) 80	
	Dismount SBF (IVO SA 3)	1159 8969	M240B	7.62mm Ball/Tracer	Self Placed And RHHT's IVO SA 8	IVO OBJ Ravens (Trench)	354 (Shift 22)	79 (Shift 79)	
	Assault Trench	Start 1149 8968 to 1155 8971 Stop at North End of Trench 1148 8986	M4, M249, M203	5 56mm Ball/Tracer, 40mm	Self Placed IVO Trench, East Leg of Trench, North End of Trench	Trench	(Assault 355) (East Leg of Trench 50) (North End of Trench 347)	(Assault 25) (East Leg of Trench 73) (North End of Trench 354)	
<p><b>NOTE:</b> Use the following info for firing 60mm mortars from the dismount portion of engagement 8. Left Limit of Fire = 060 Deg's, Right Limit of fire = 077 Deg's, Min Range = 2125m, Max Range = 2725m, Charges = 3-4, Max Ord = 1877m.</p>									

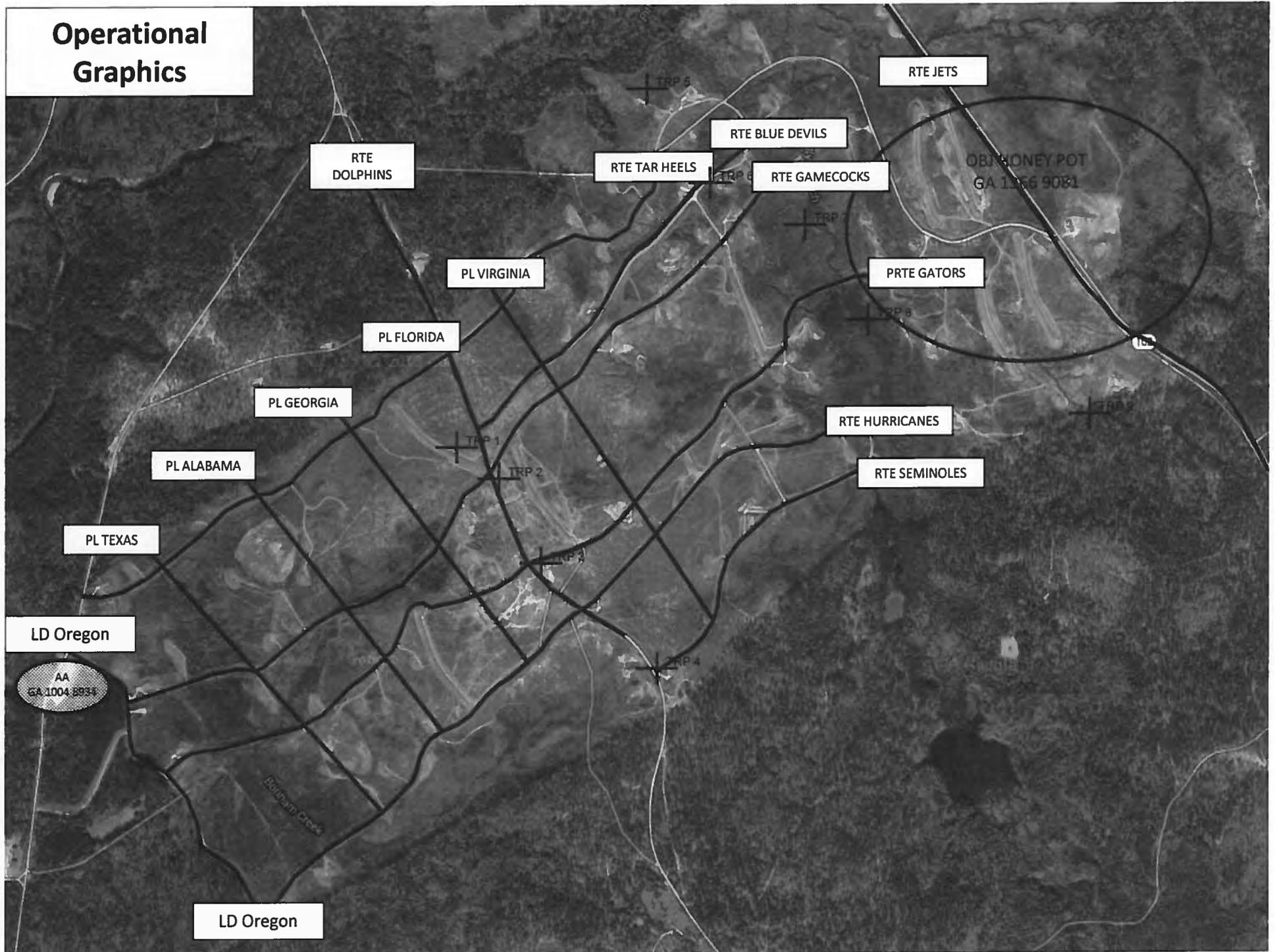


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MANEUVER CENTER OF EXCELLENCE

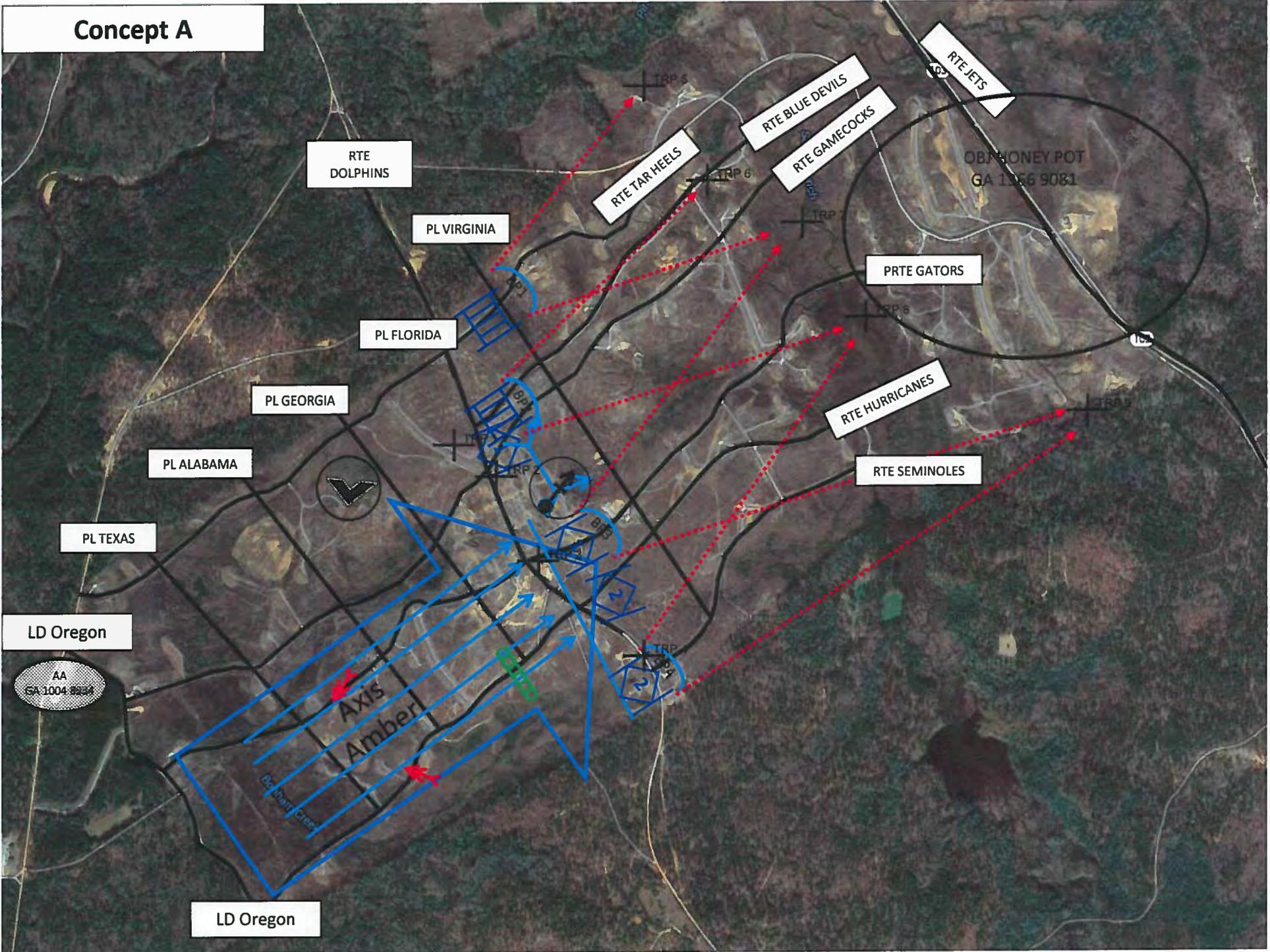
# **Infantry Basic Officer Leader Course Section Live Fire DMPCRC**

Thursday, May 07, 2015

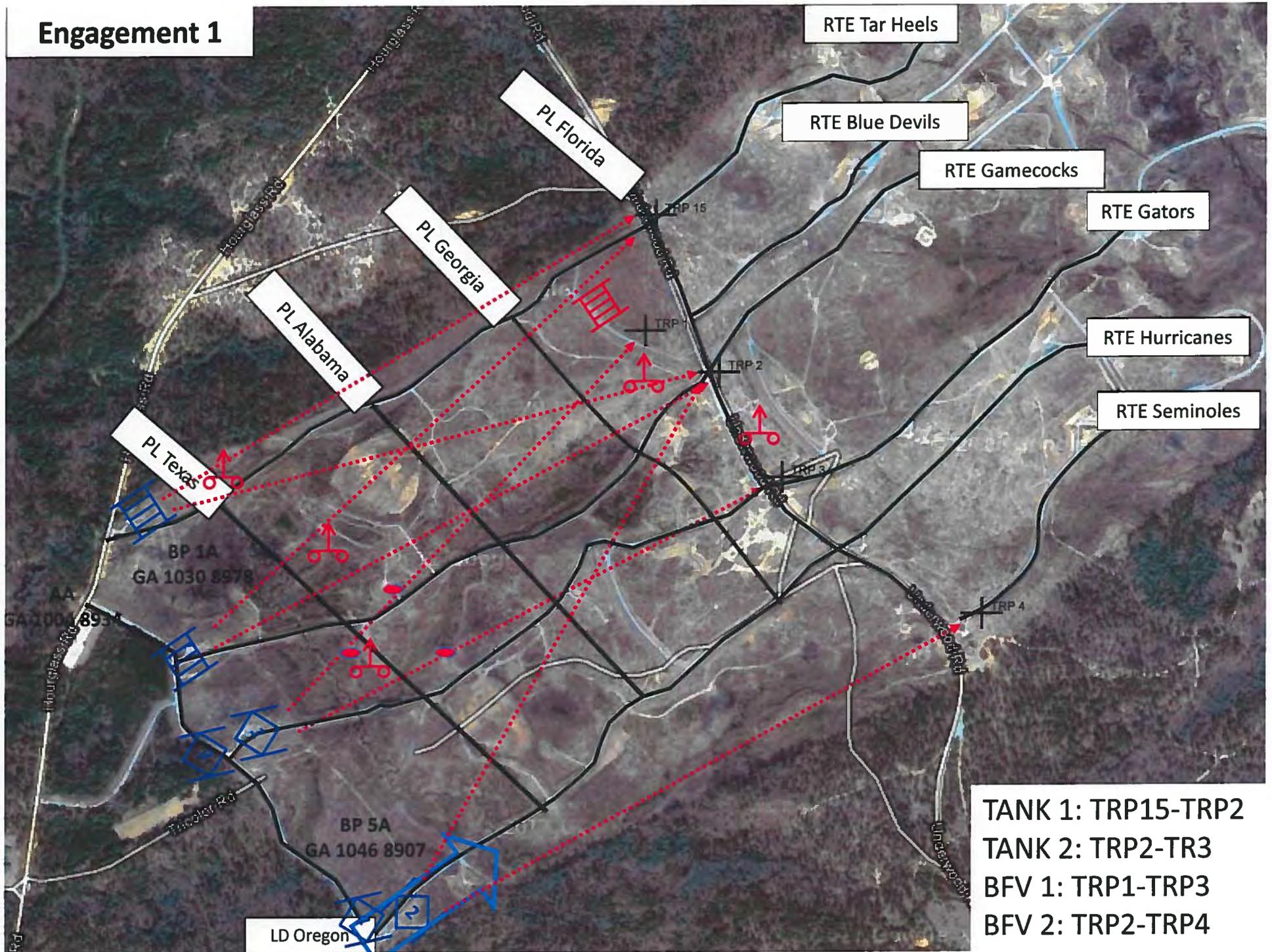
# Operational Graphics



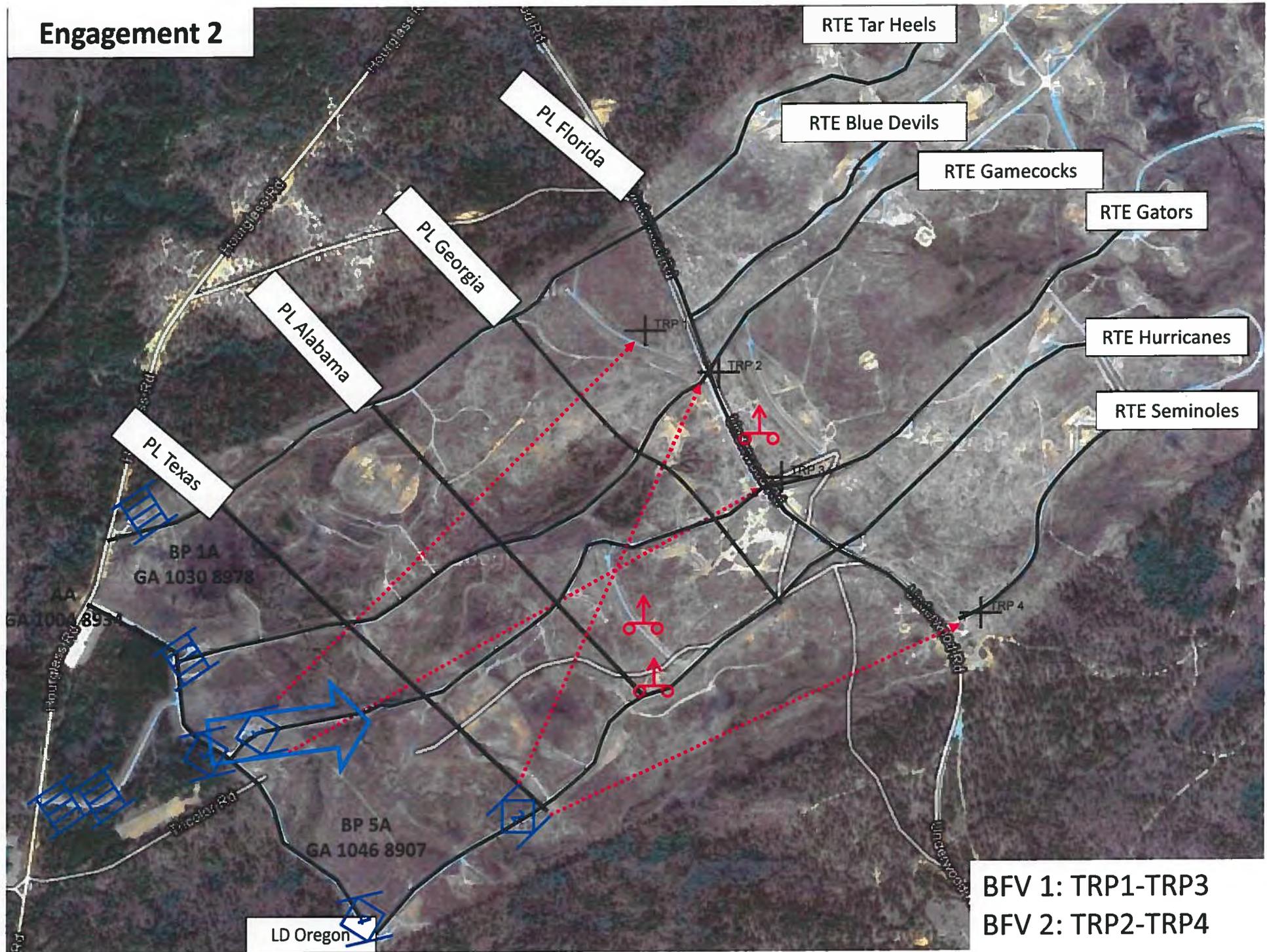
# Concept A



# Engagement 1



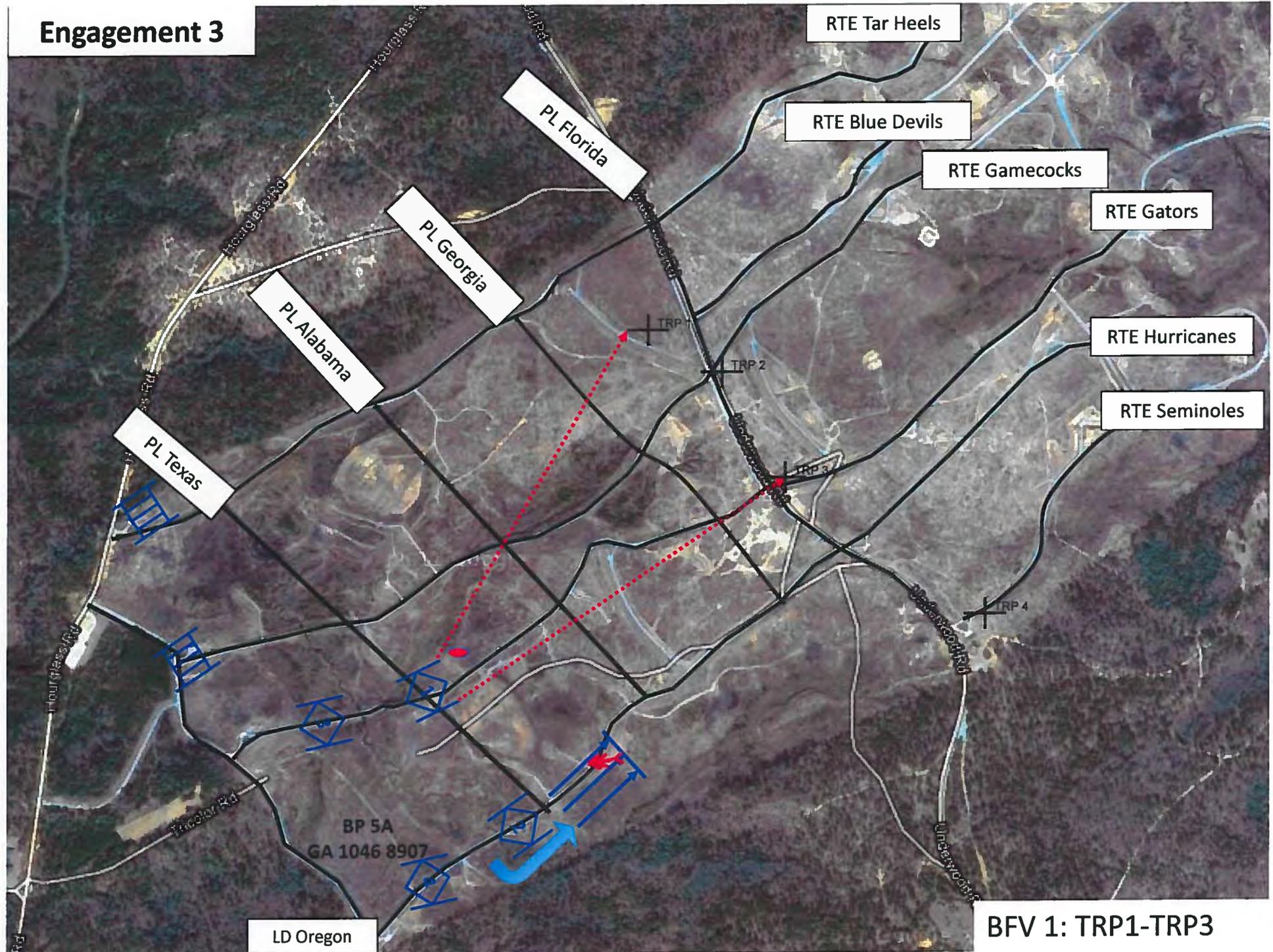
# Engagement 2



BFV 1: TRP1-TRP3  
BFV 2: TRP2-TRP4

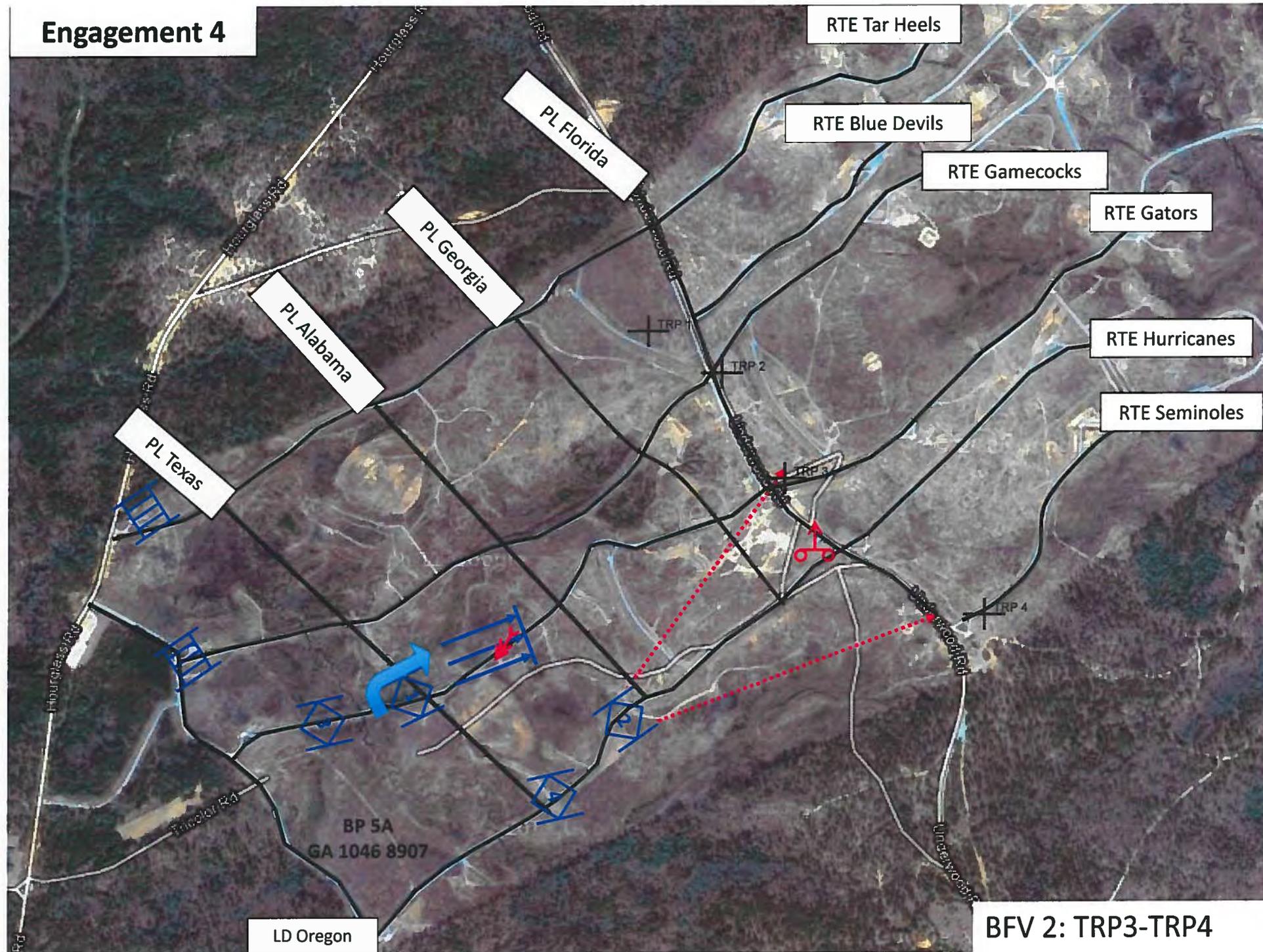
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# Engagement 3

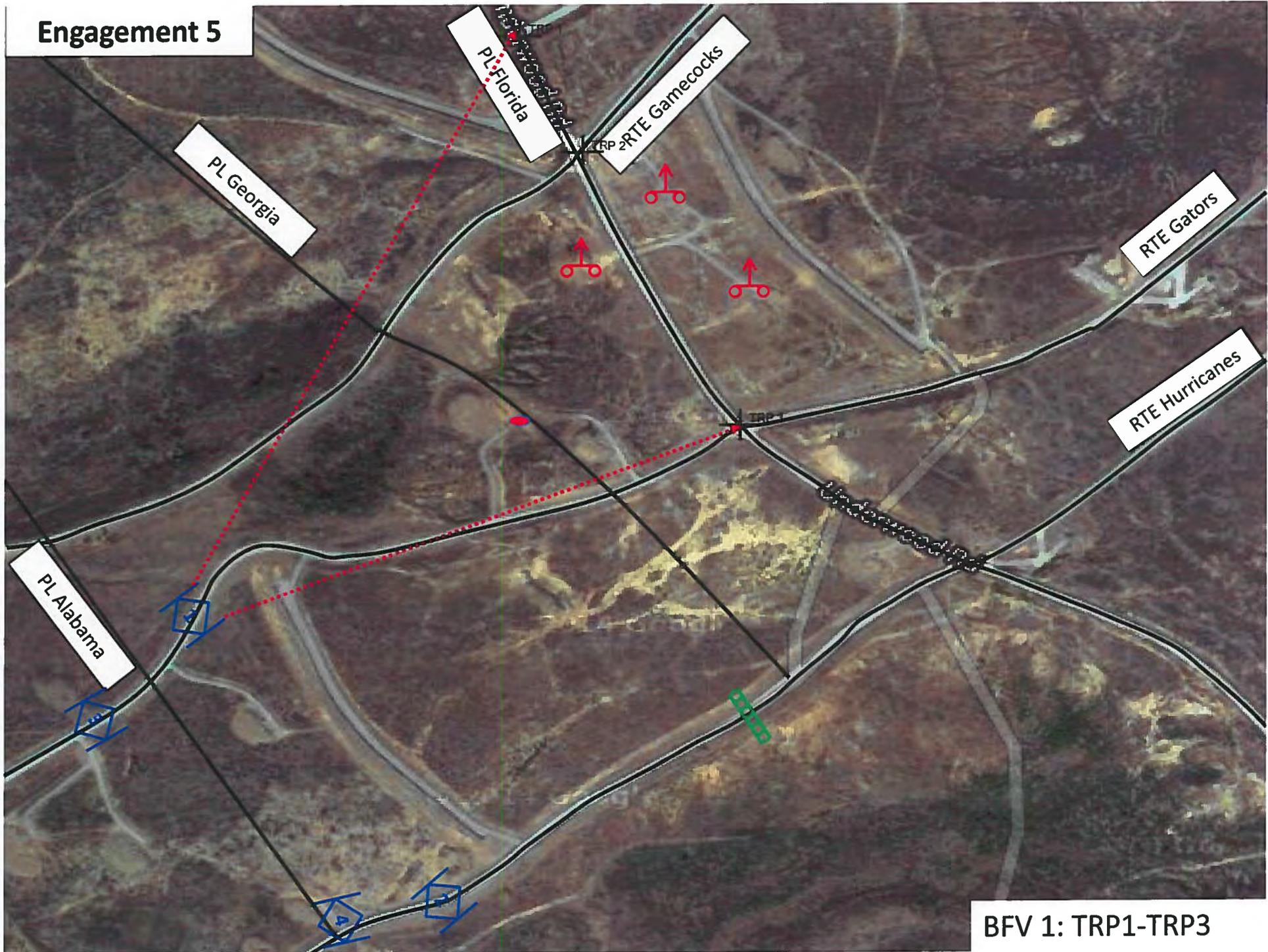


BFV 1: TRP1-TRP3

# Engagement 4

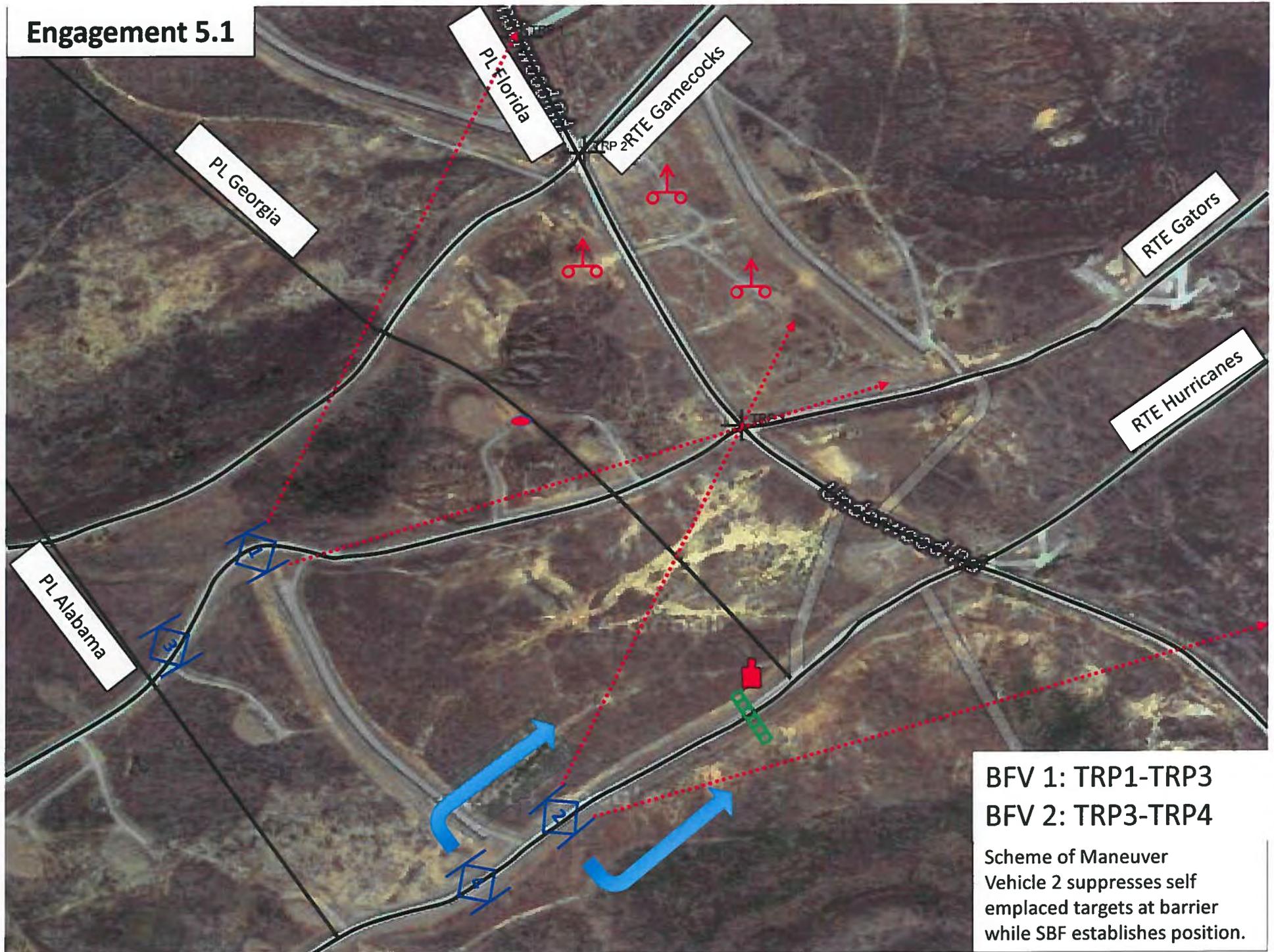


# Engagement 5



BFV 1: TRP1-TRP3

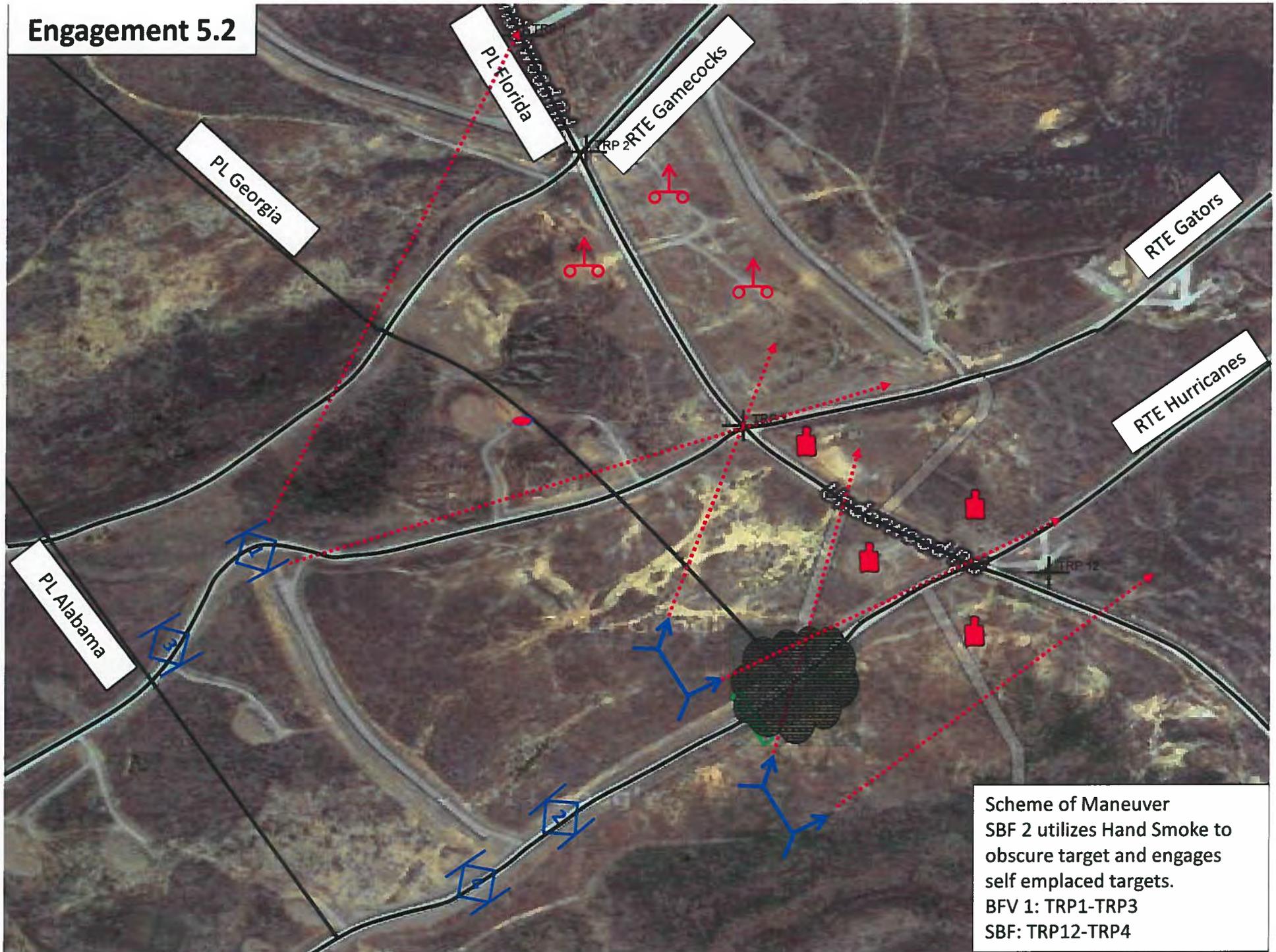
# Engagement 5.1



**BFV 1: TRP1-TRP3**  
**BFV 2: TRP3-TRP4**

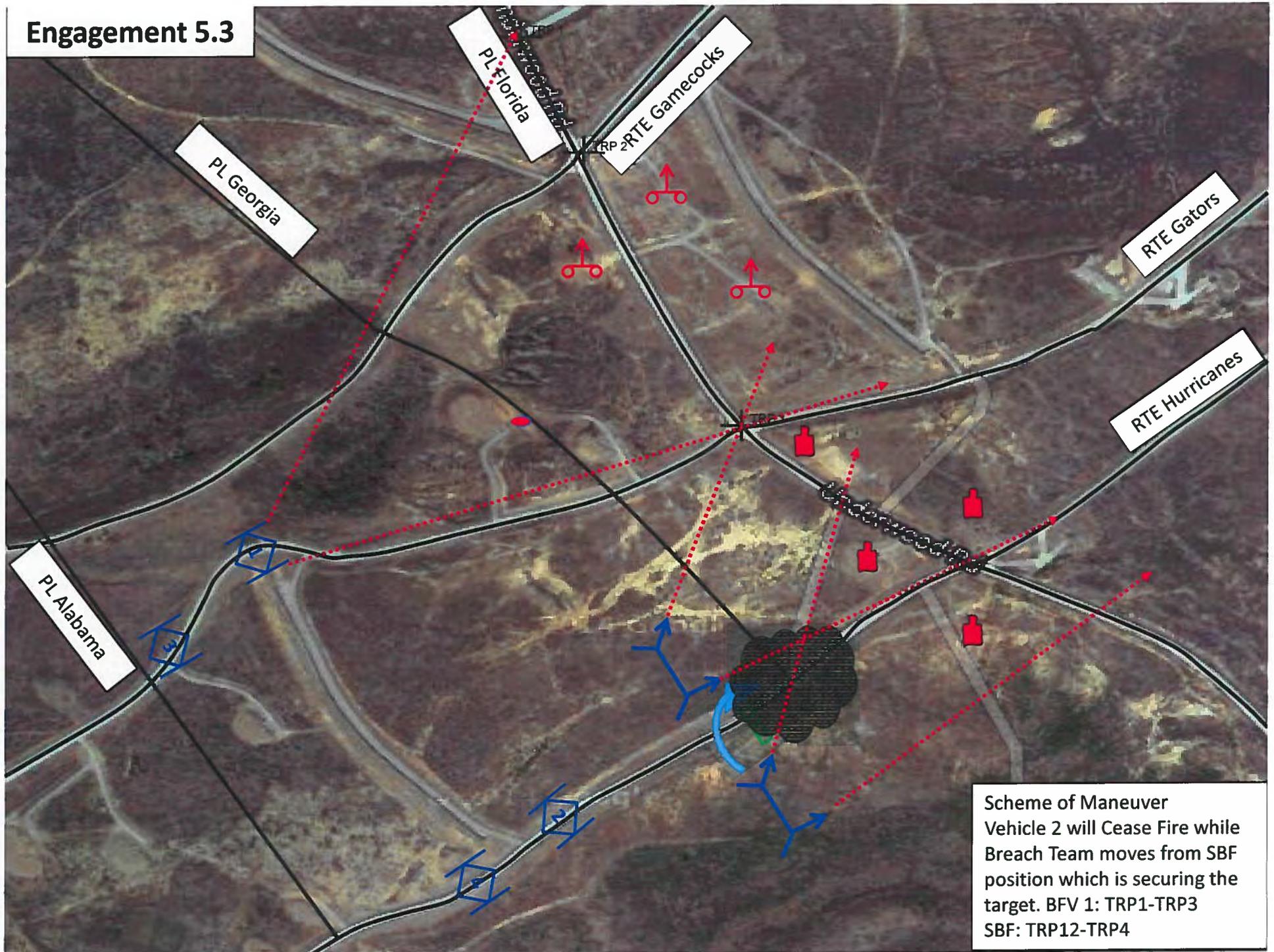
**Scheme of Maneuver**  
Vehicle 2 suppresses self  
emplaced targets at barrier  
while SBF establishes position.

# Engagement 5.2

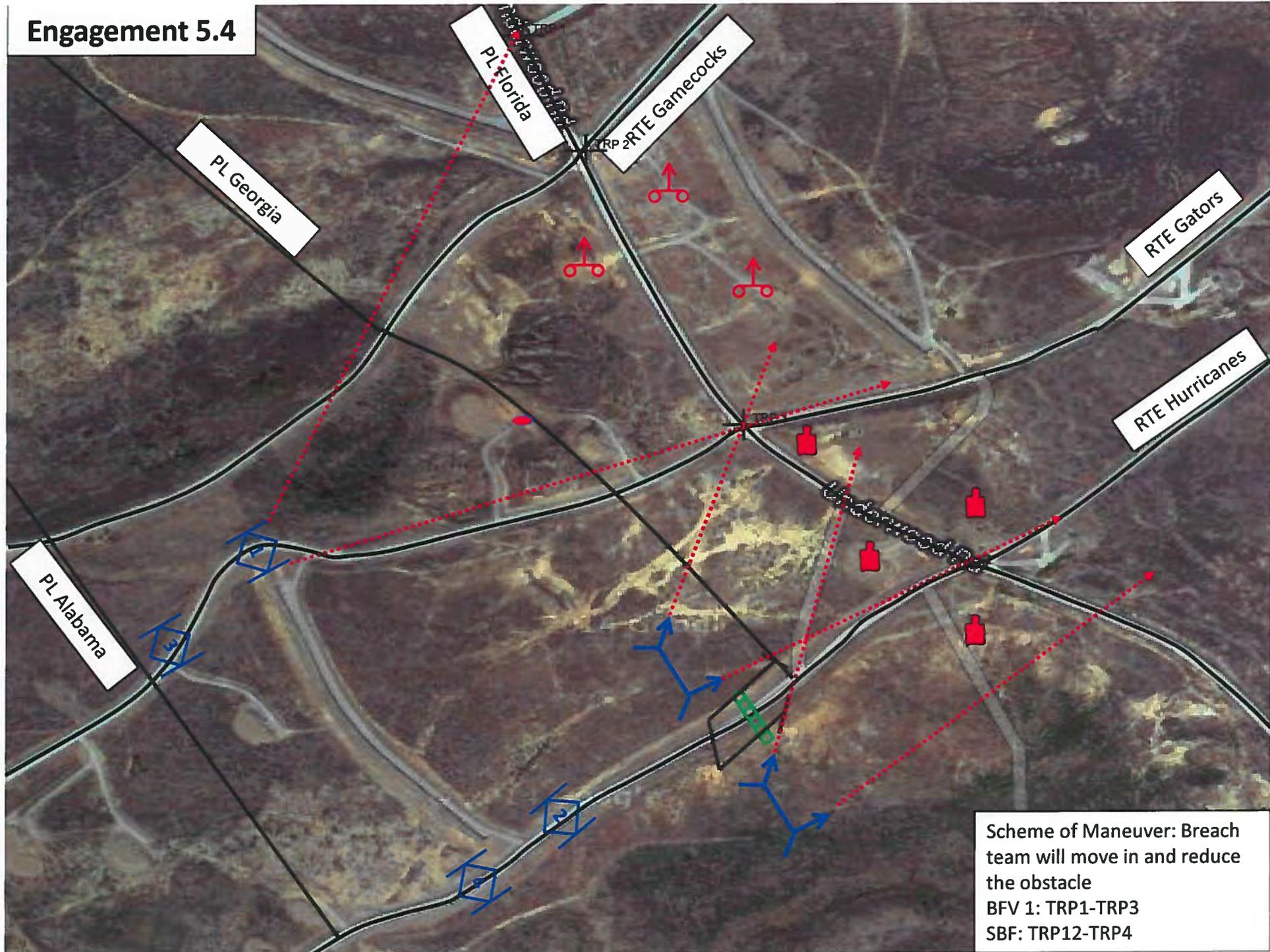


Scheme of Maneuver  
SBF 2 utilizes Hand Smoke to  
obscure target and engages  
self emplaced targets.  
BFV 1: TRP1-TRP3  
SBF: TRP12-TRP4

# Engagement 5.3



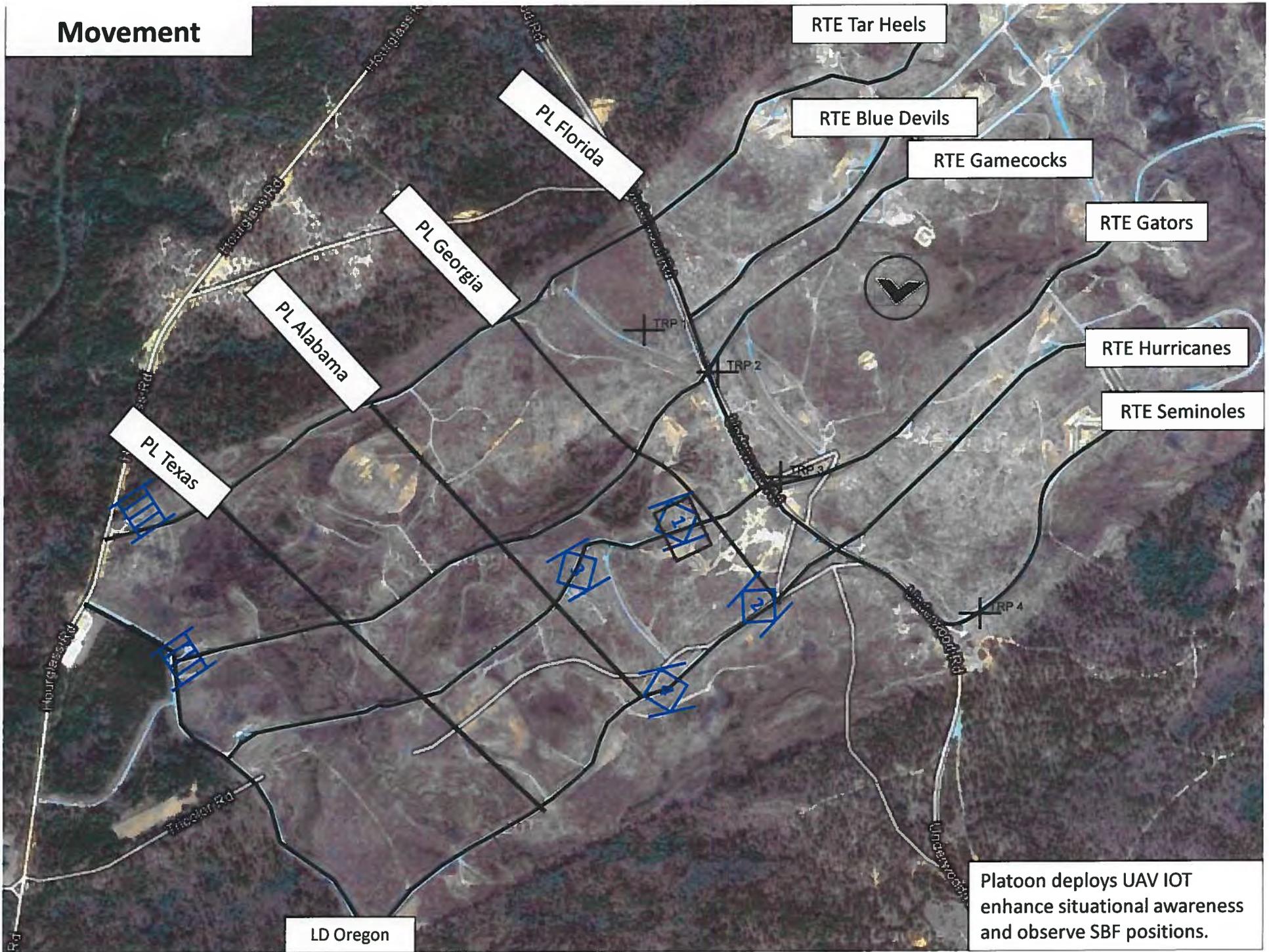
# Engagement 5.4



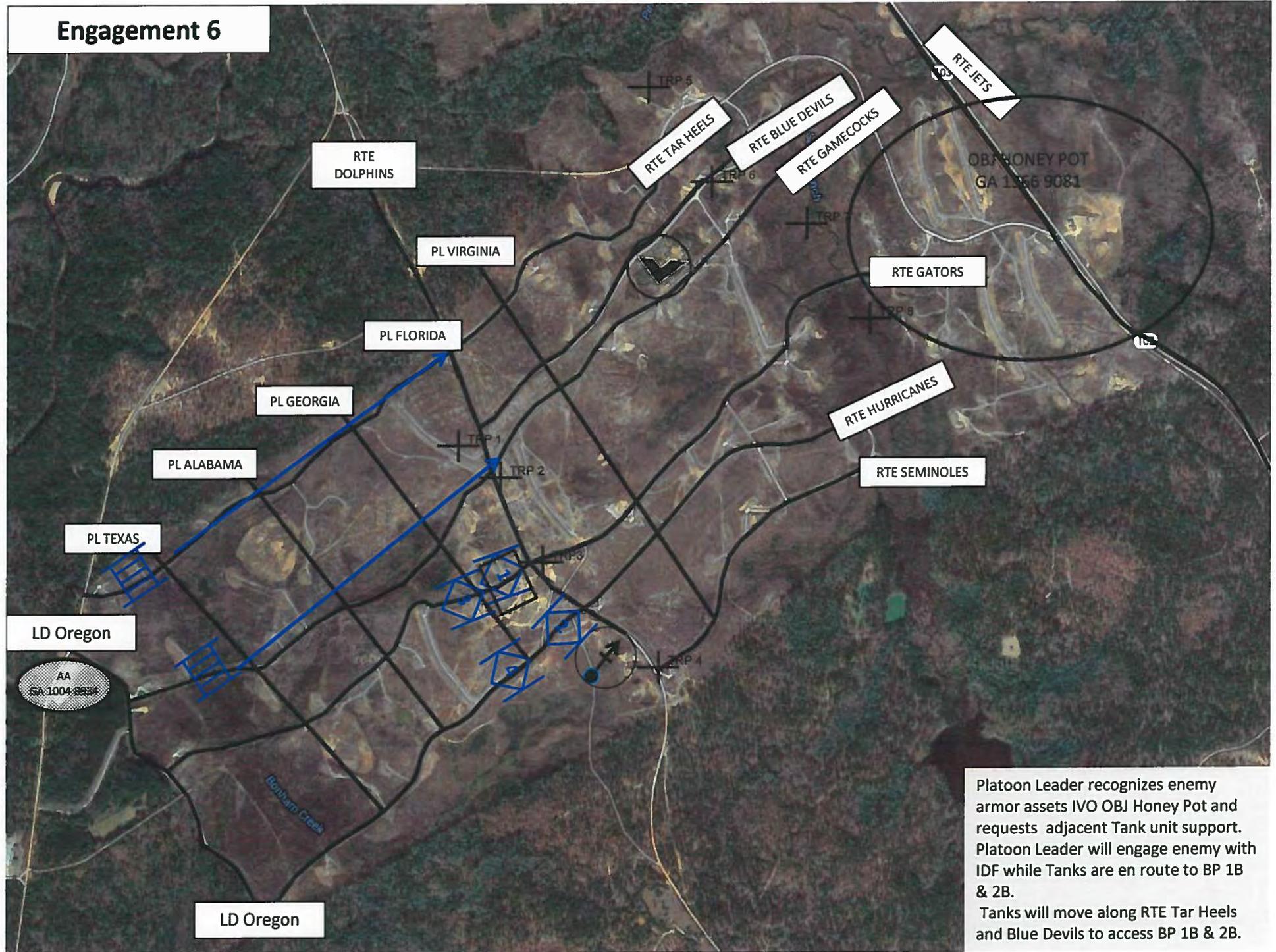
Scheme of Maneuver: Breach team will move in and reduce the obstacle  
BFV 1: TRP1-TRP3  
SBF: TRP12-TRP4



# Movement

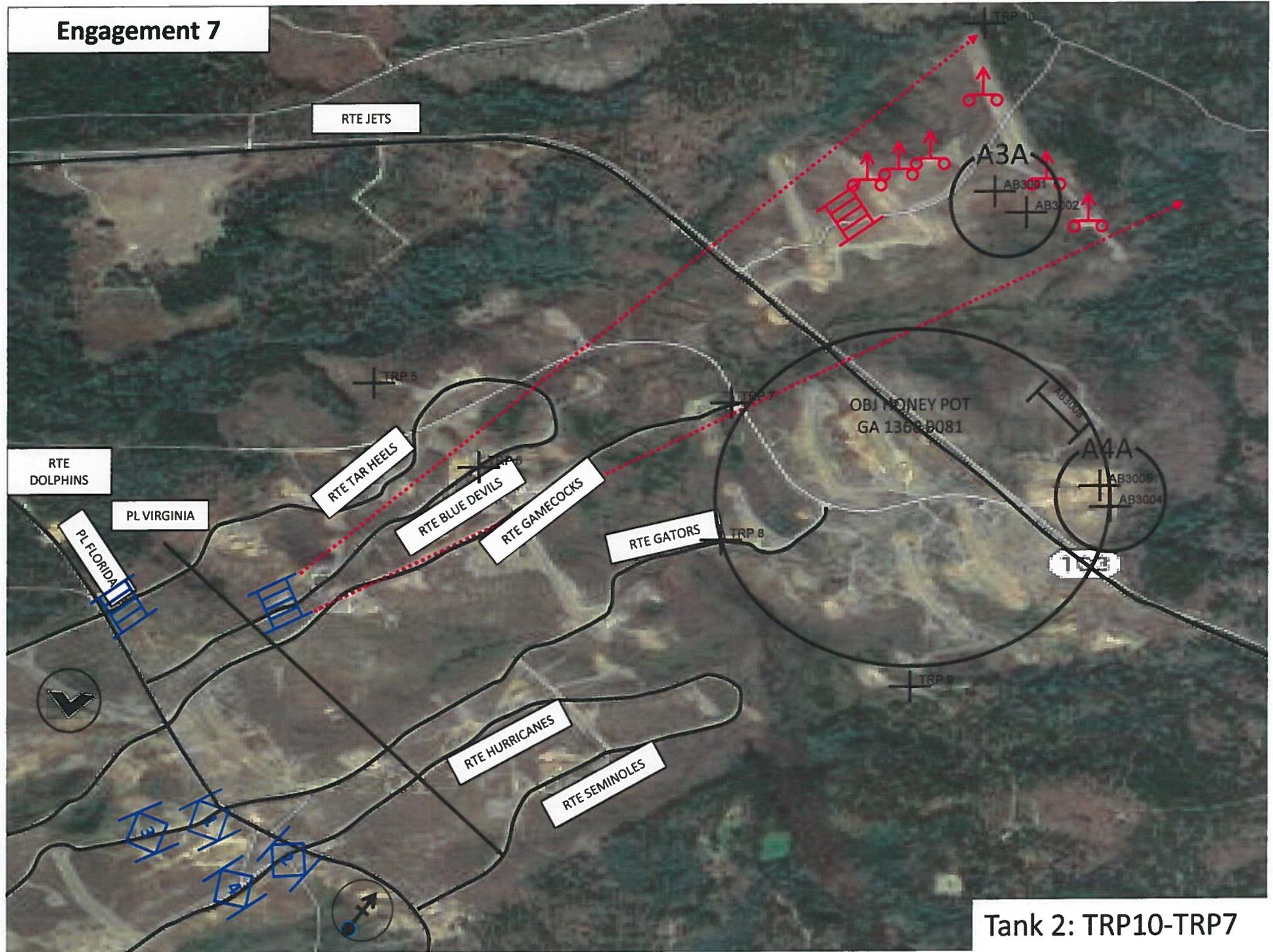


# Engagement 6



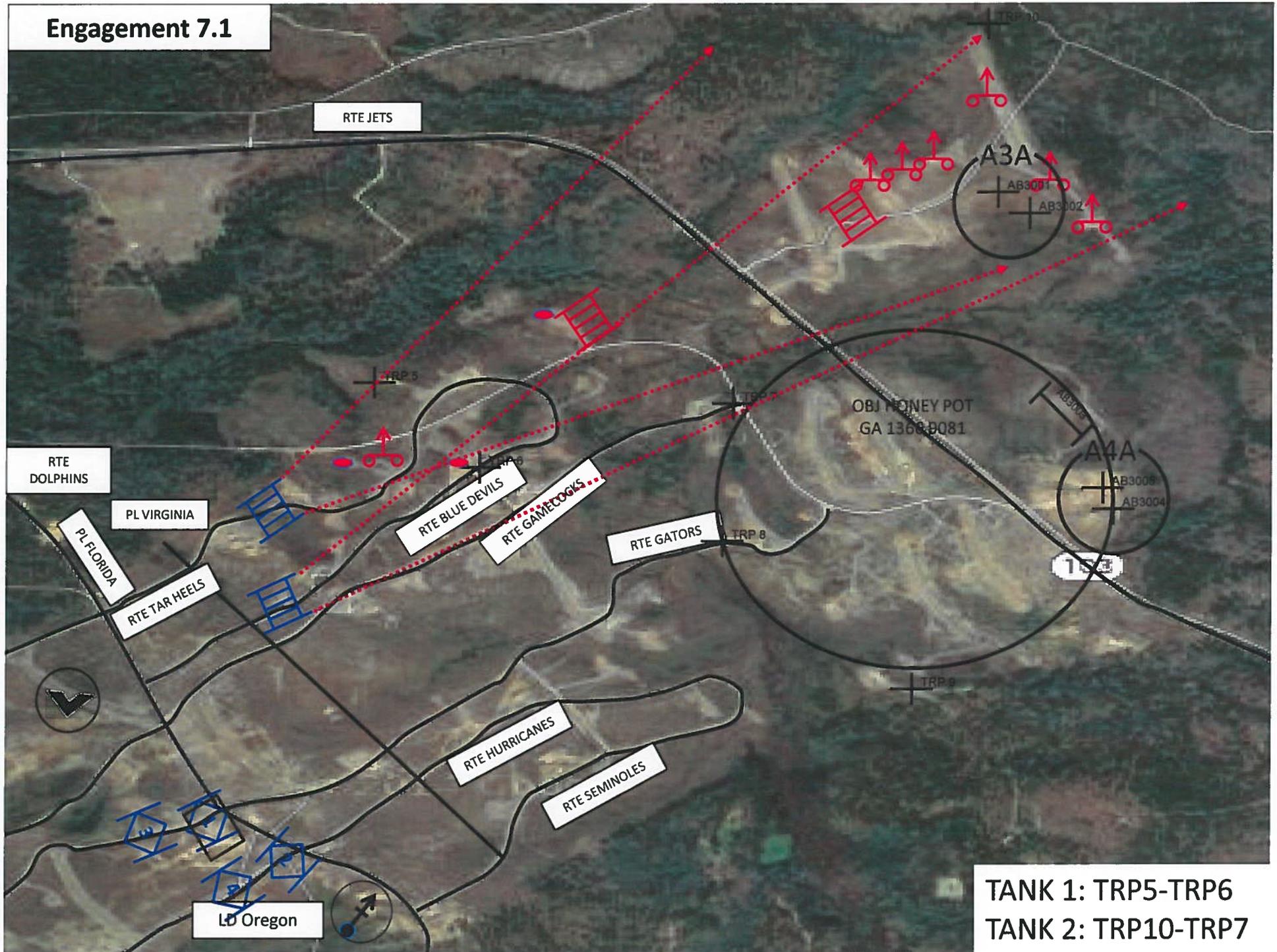
Platoon Leader recognizes enemy armor assets IVO OBJ Honey Pot and requests adjacent Tank unit support. Platoon Leader will engage enemy with IDF while Tanks are en route to BP 1B & 2B. Tanks will move along RTE Tar Heels and Blue Devils to access BP 1B & 2B.

# Engagement 7



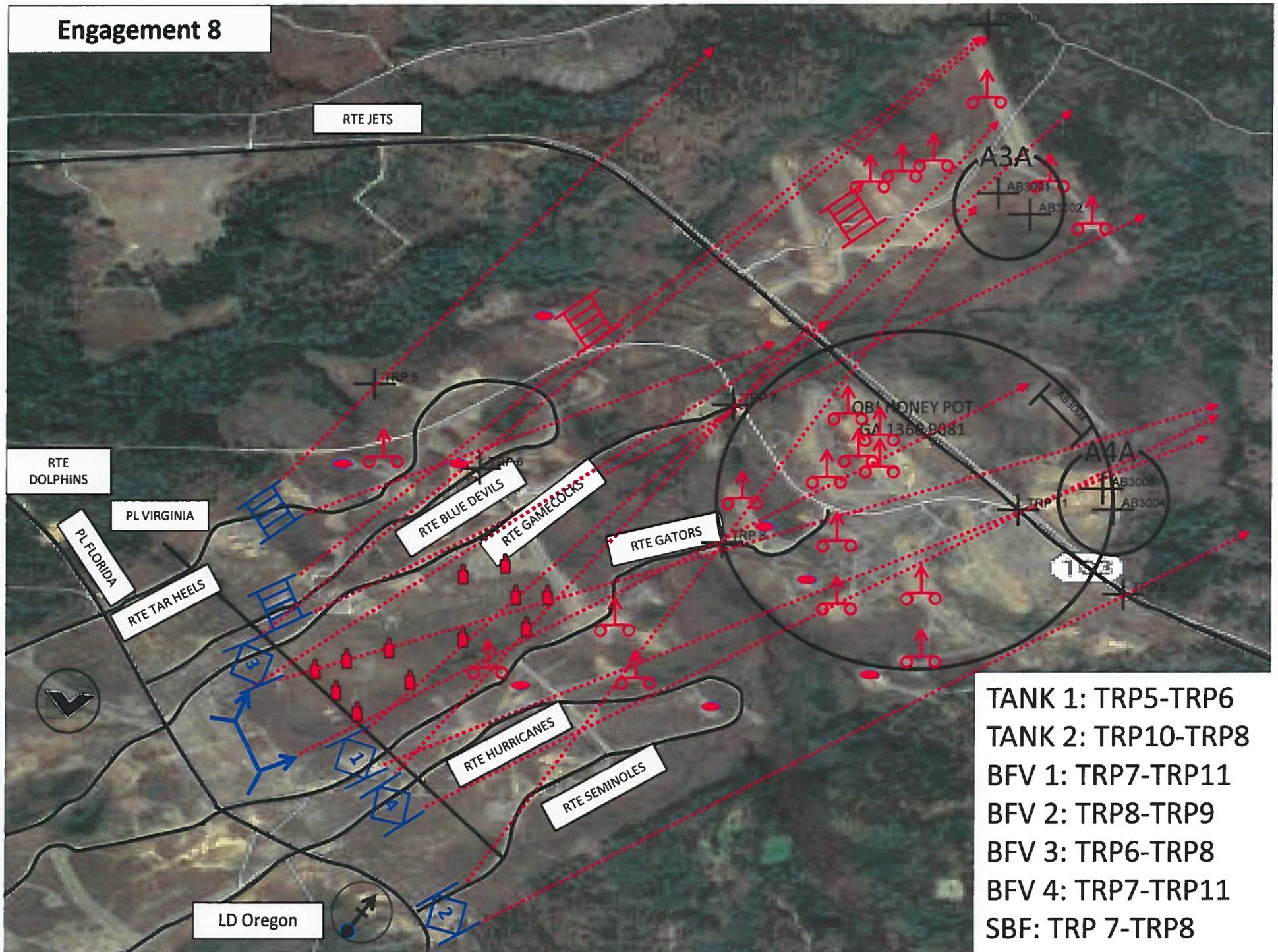
Tank 2: TRP10-TRP7

# Engagement 7.1

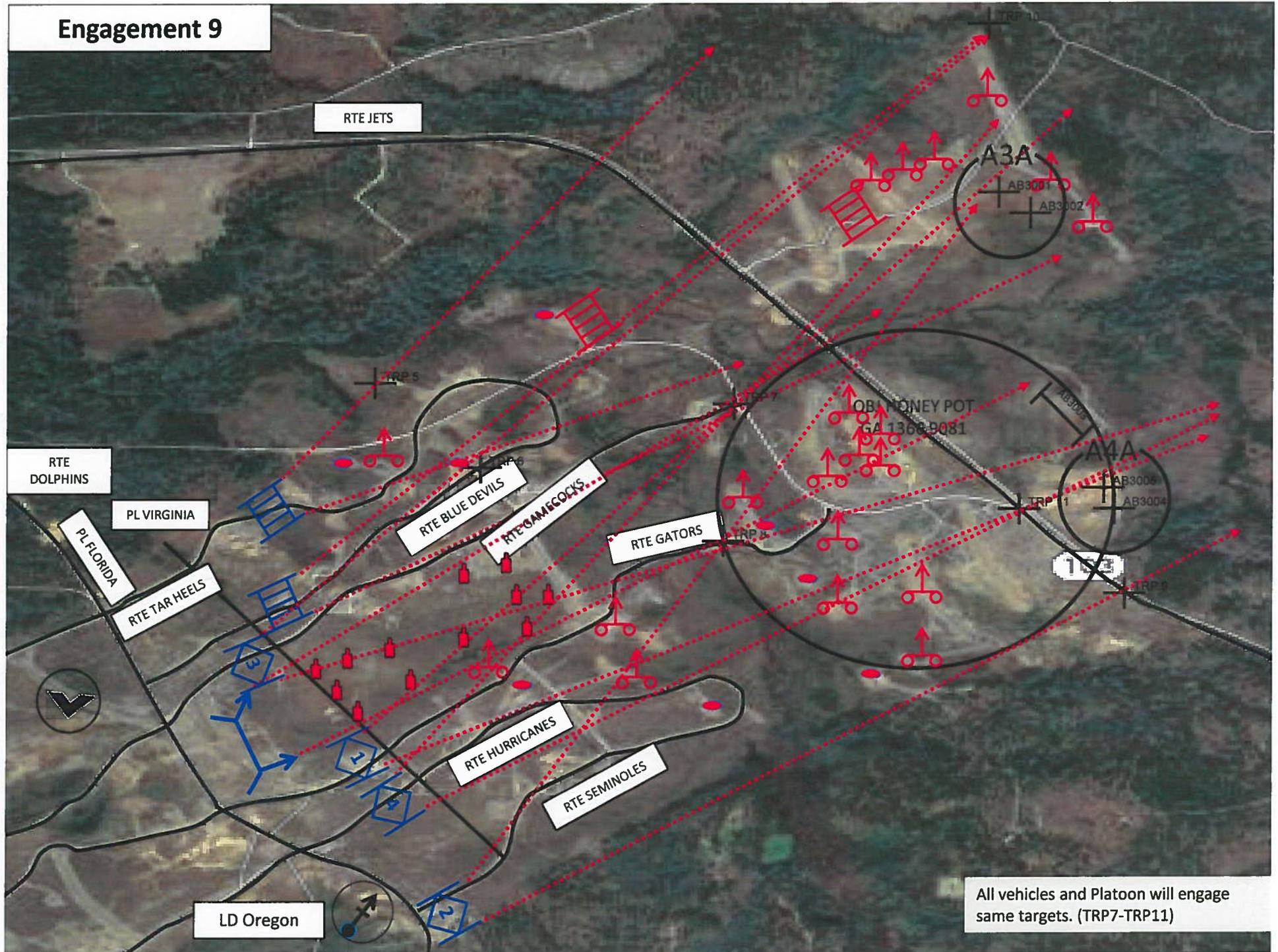


TANK 1: TRP5-TRP6  
TANK 2: TRP10-TRP7

# Engagement 8

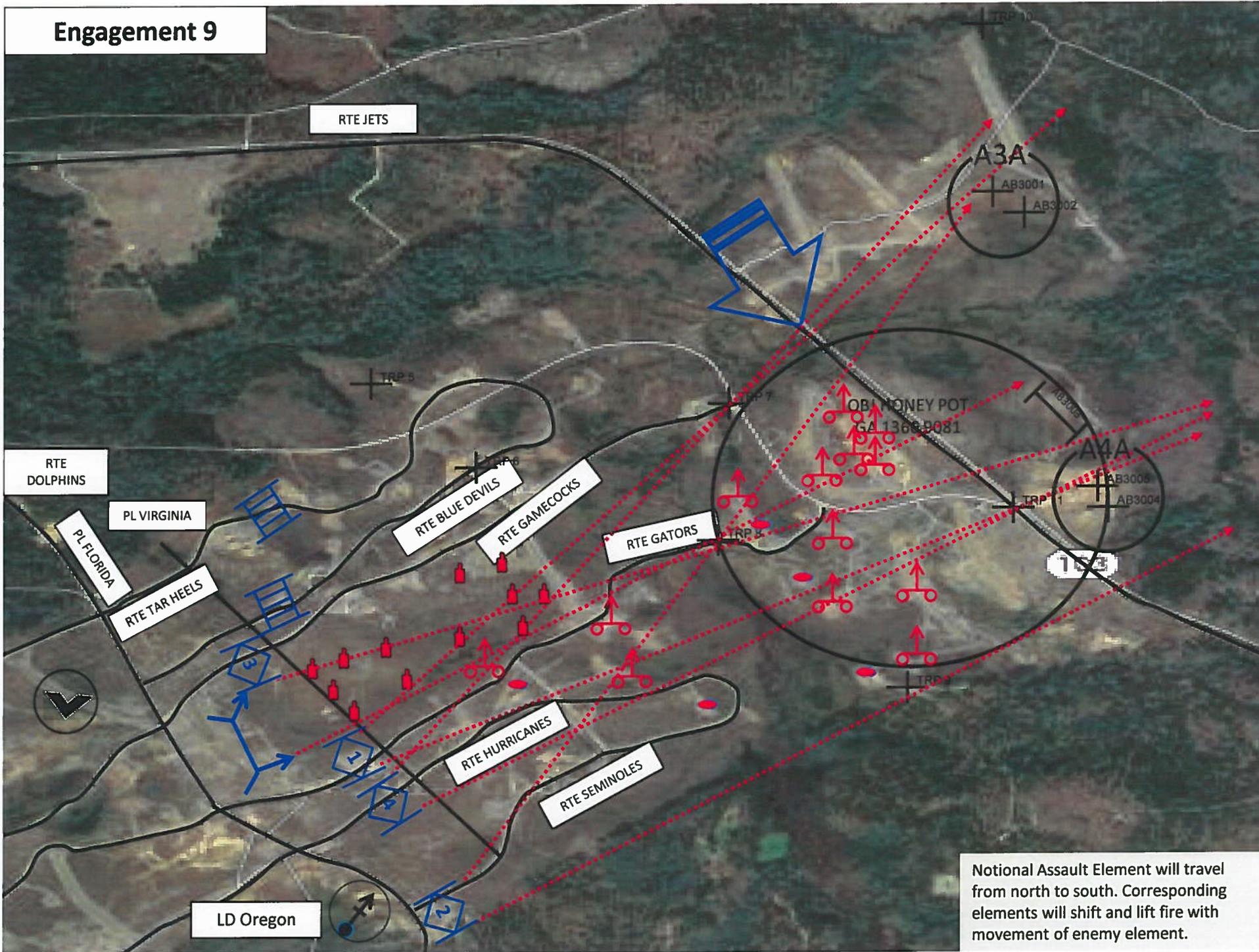


# Engagement 9



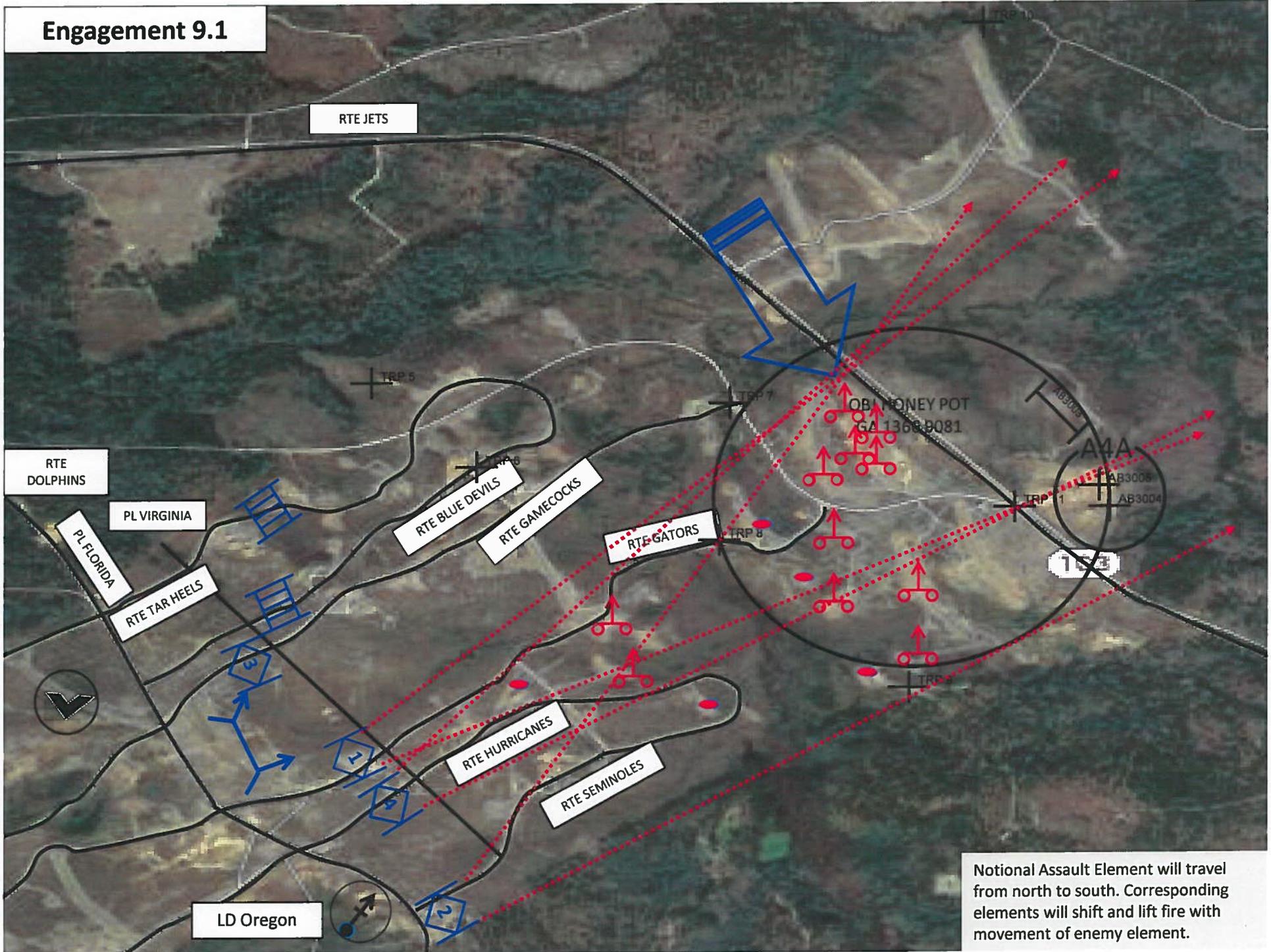
All vehicles and Platoon will engage same targets. (TRP7-TRP11)

# Engagement 9



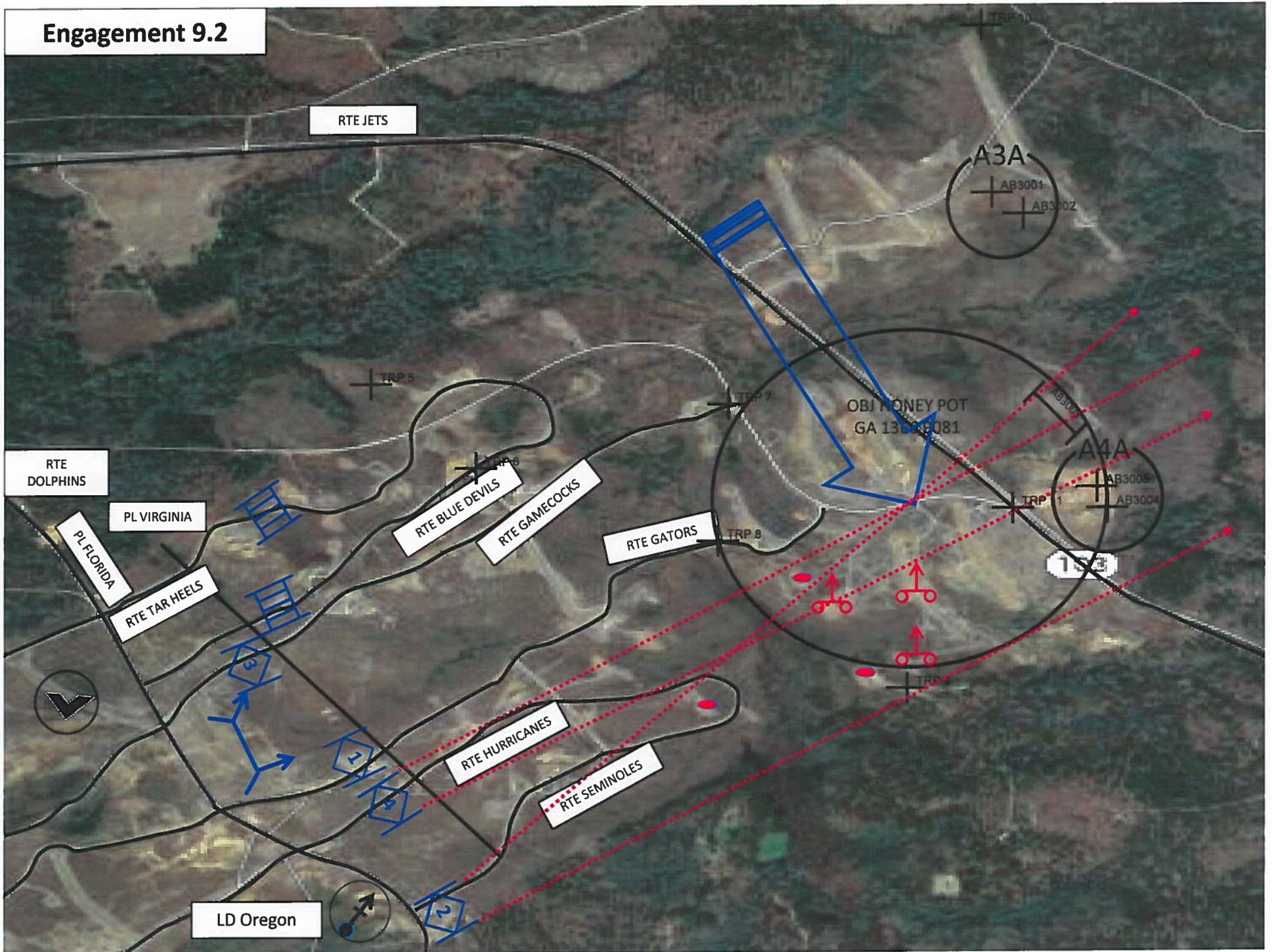
Notional Assault Element will travel from north to south. Corresponding elements will shift and lift fire with movement of enemy element.

# Engagement 9.1

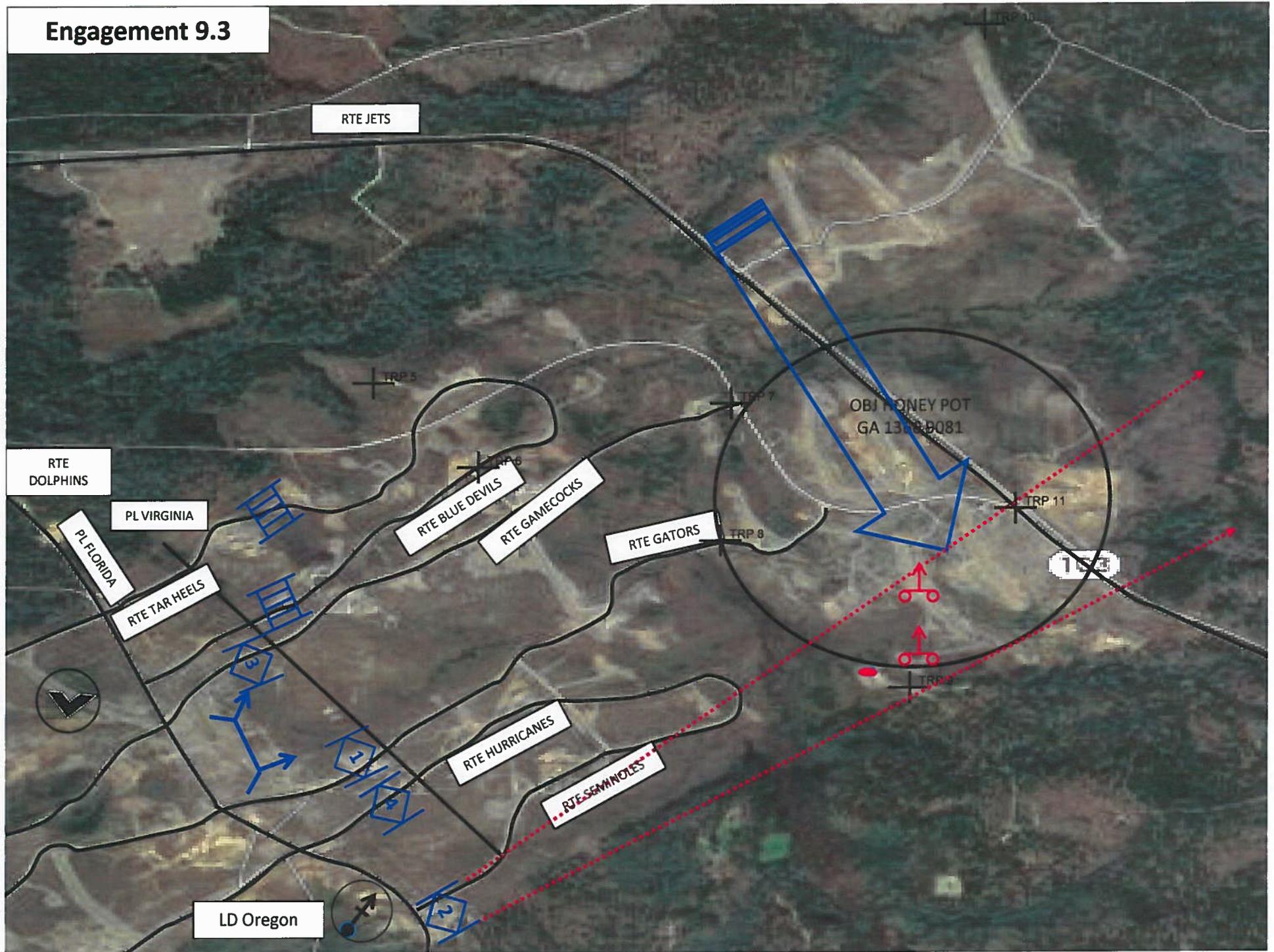


Notional Assault Element will travel from north to south. Corresponding elements will shift and lift fire with movement of enemy element.

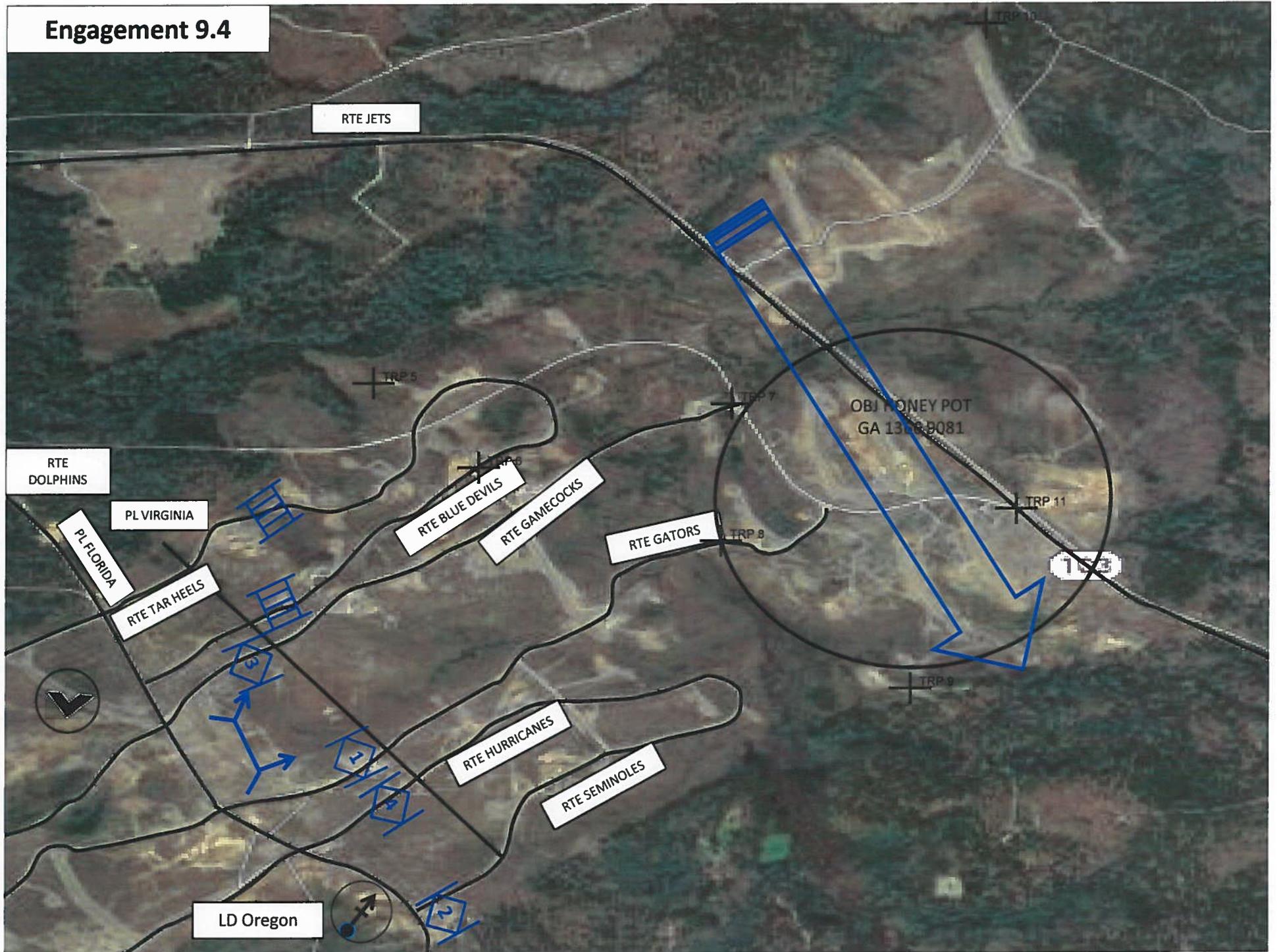
# Engagement 9.2



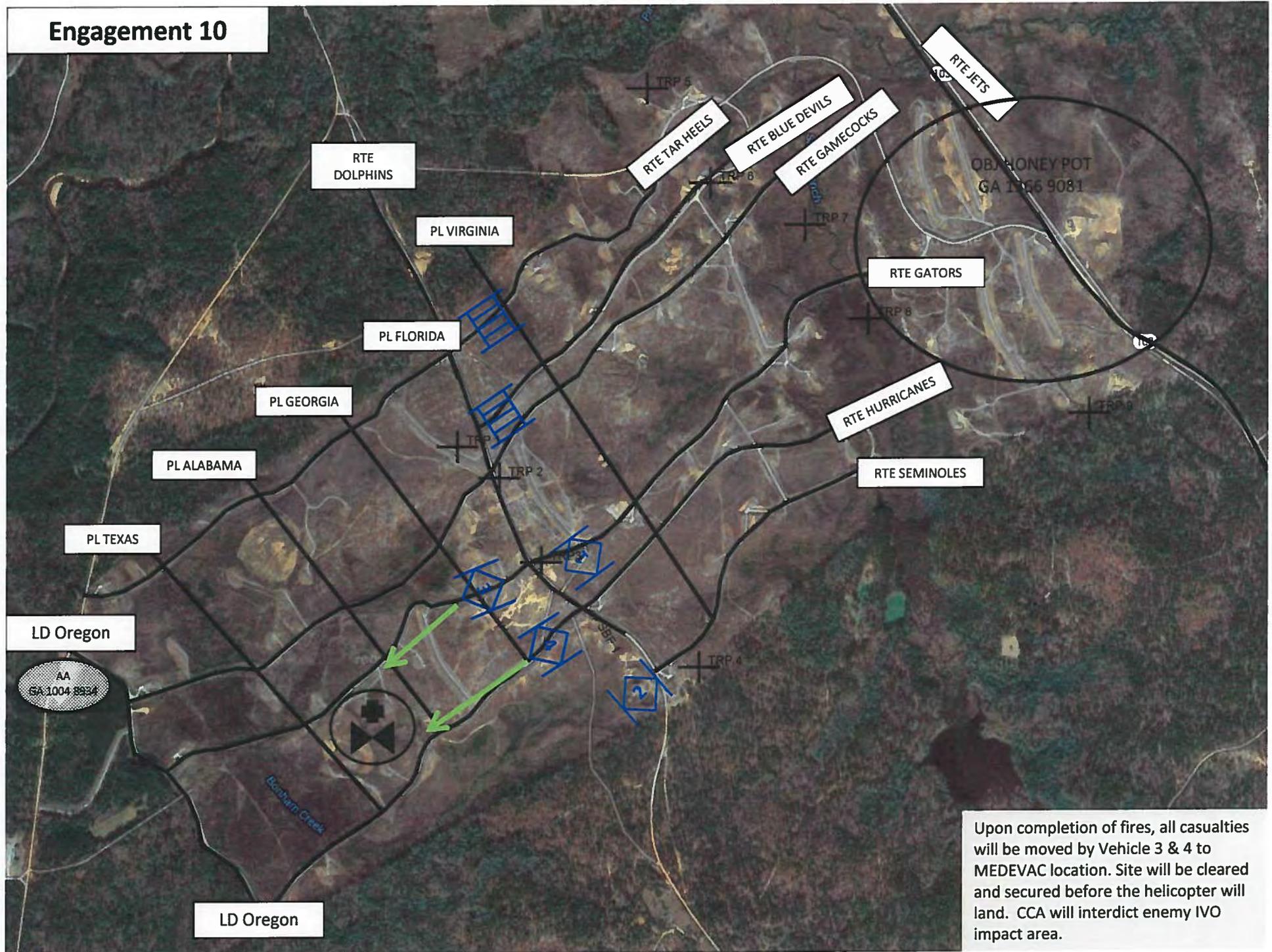
# Engagement 9.3



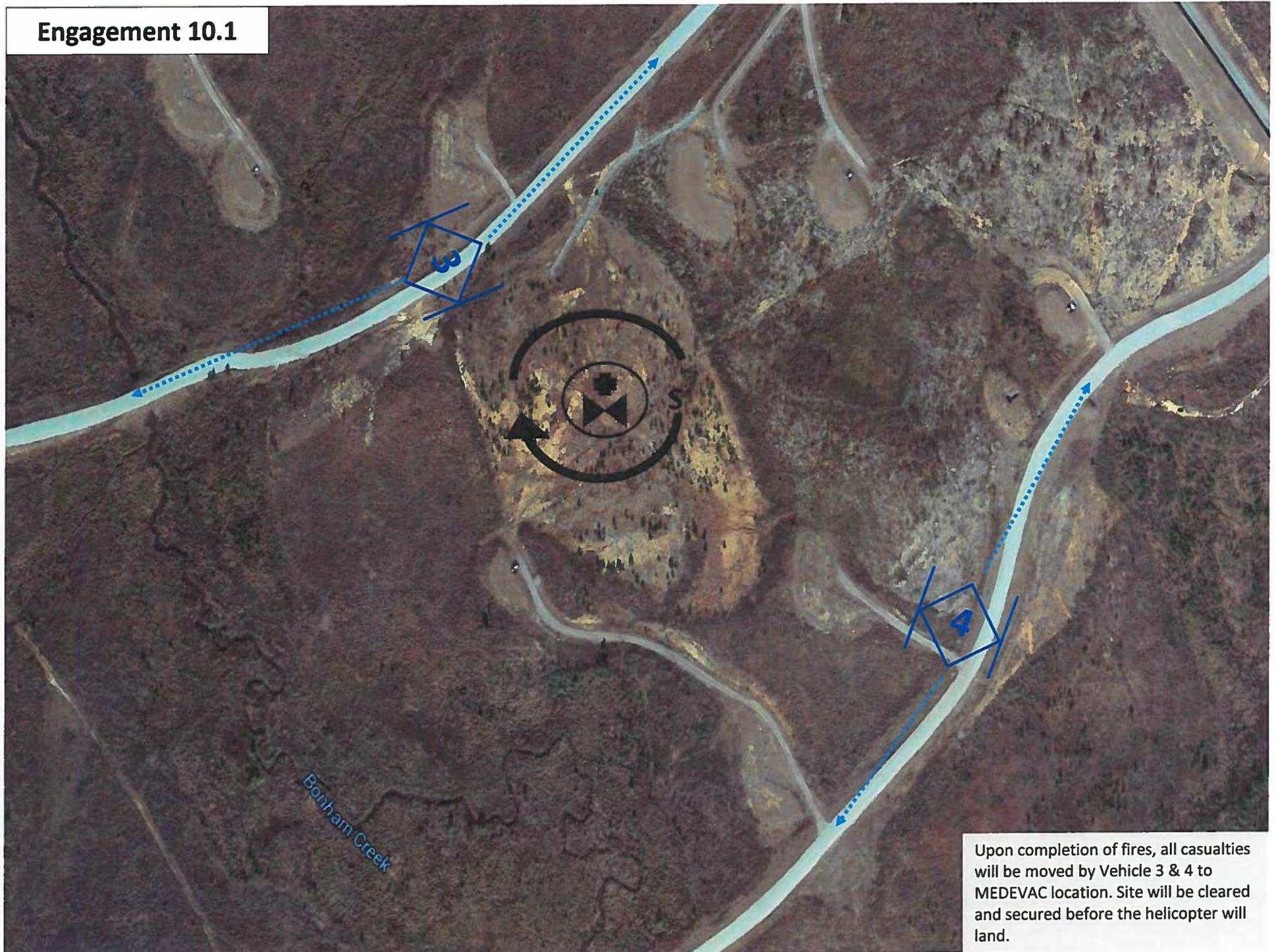
# Engagement 9.4



# Engagement 10

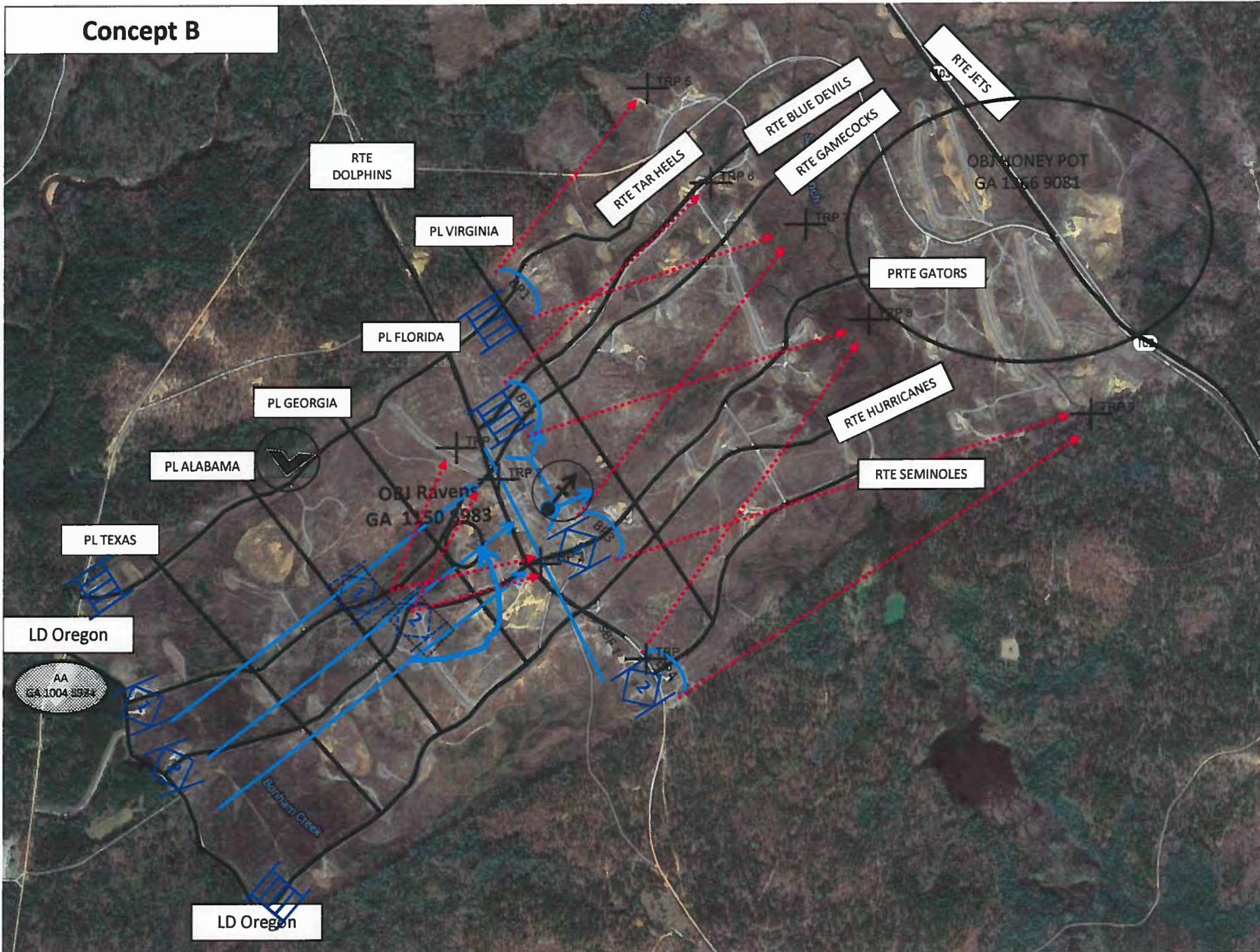


## Engagement 10.1

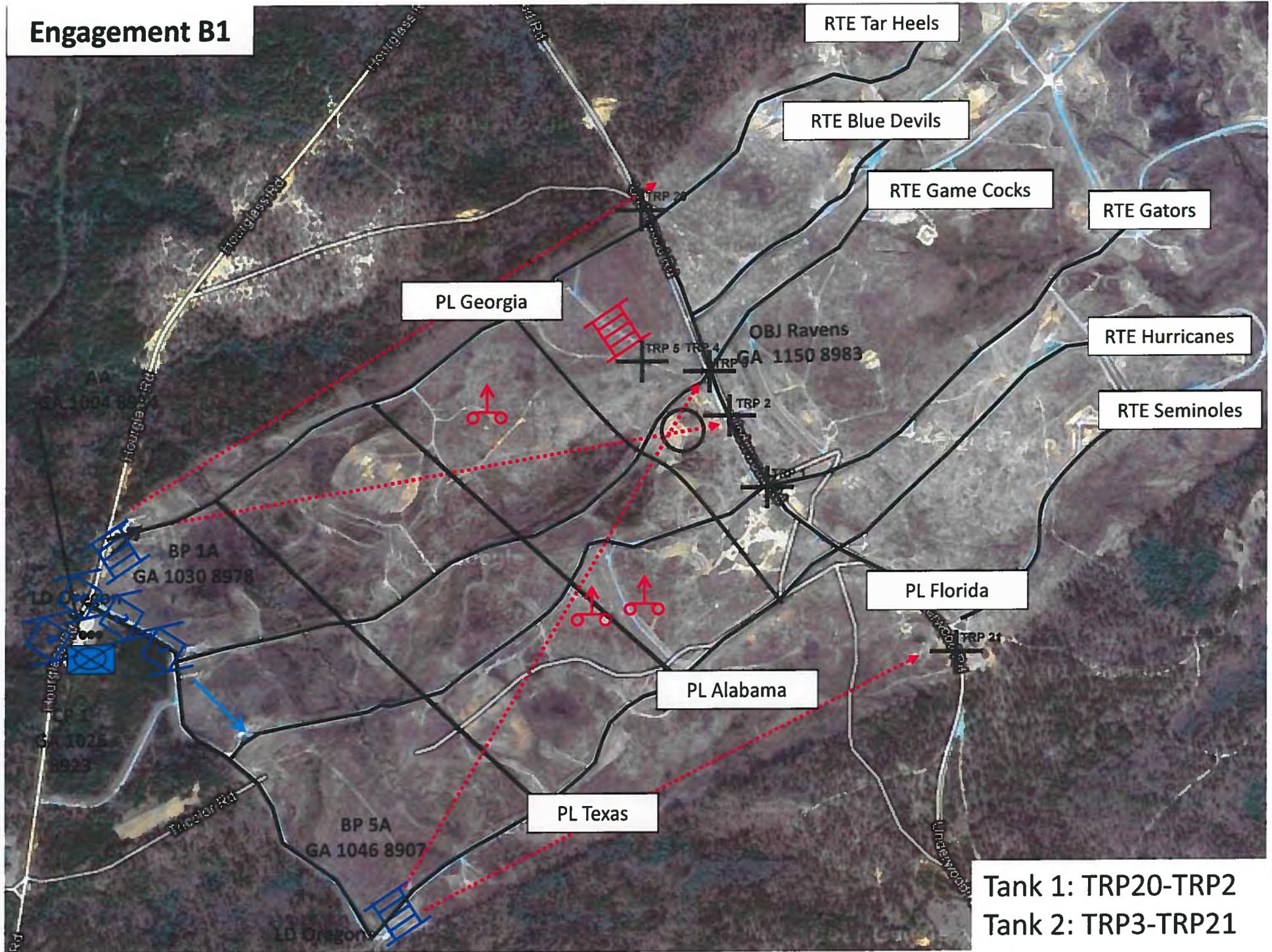


Upon completion of fires, all casualties will be moved by Vehicle 3 & 4 to MEDEVAC location. Site will be cleared and secured before the helicopter will land.

# Concept B

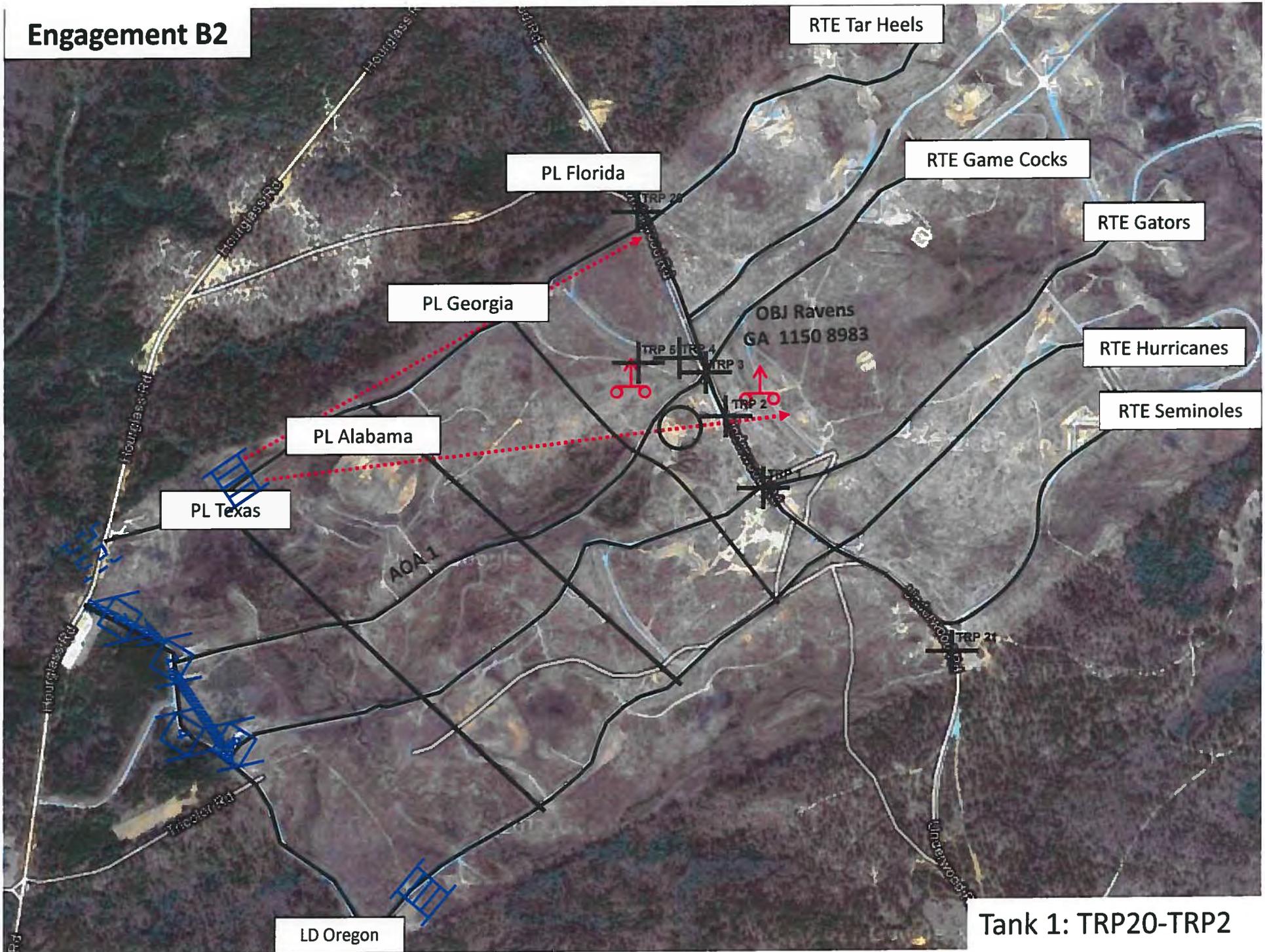


# Engagement B1



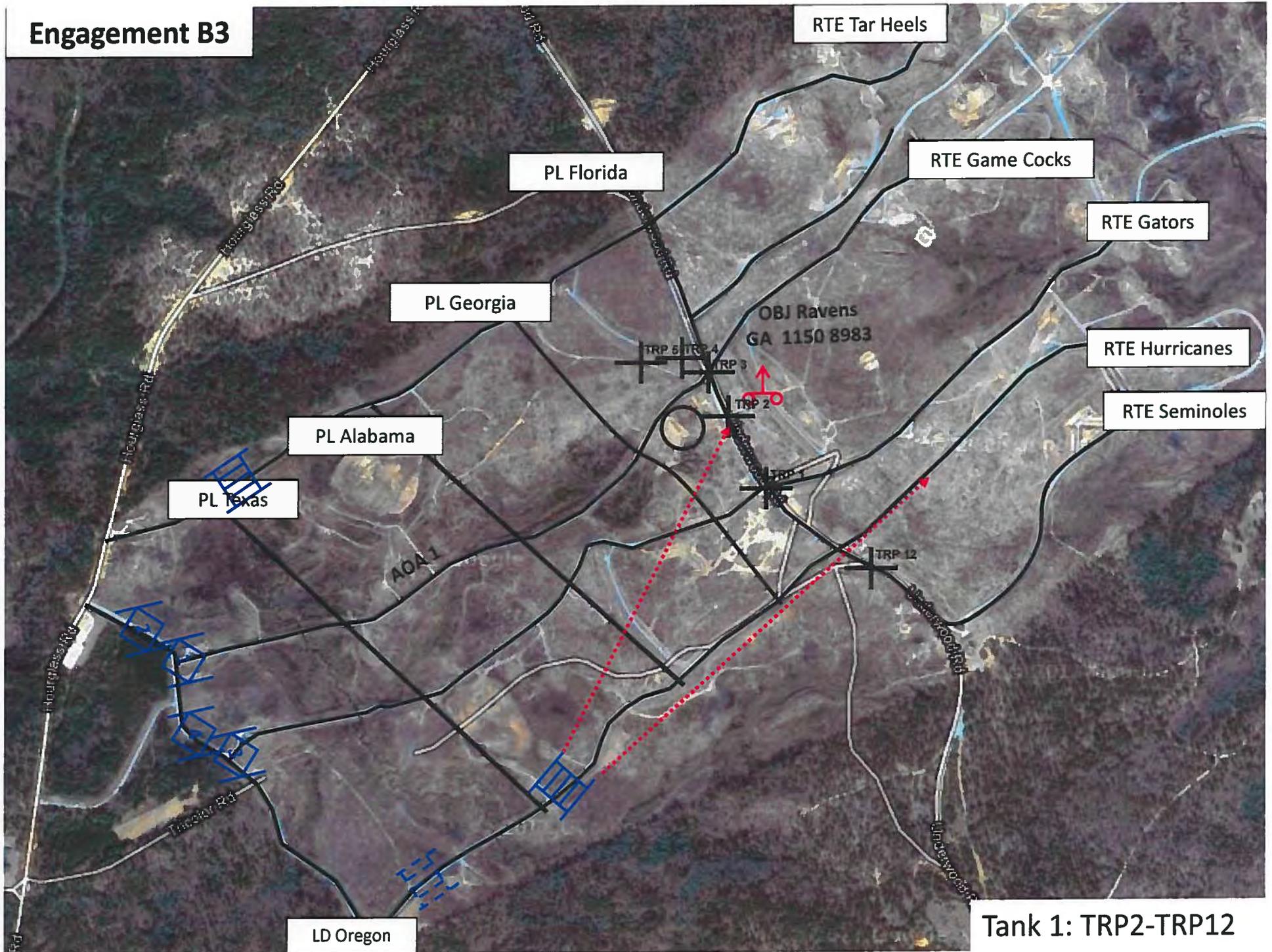
Tank 1: TRP20-TRP2  
Tank 2: TRP3-TRP21

# Engagement B2



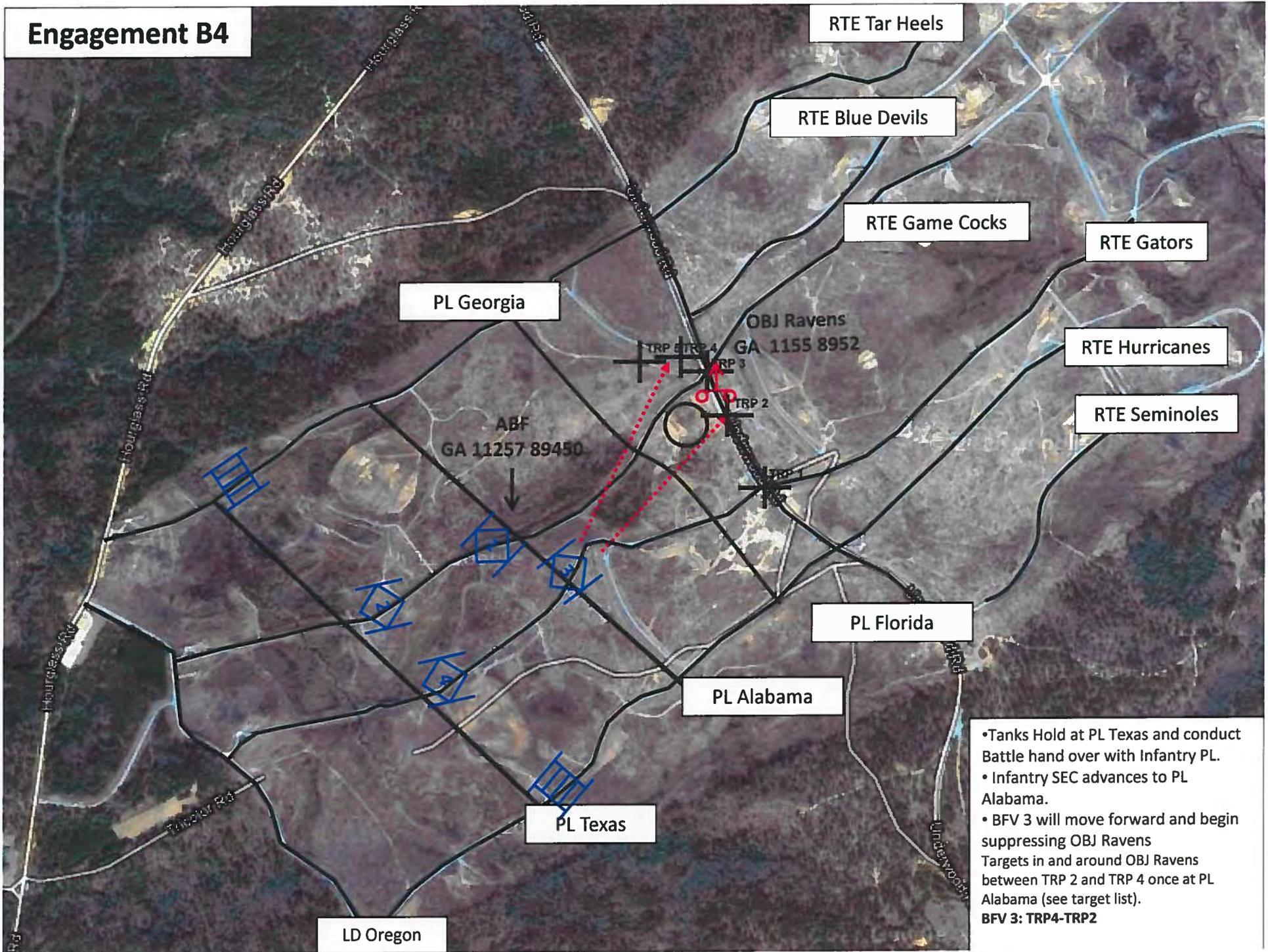
Tank 1: TRP20-TRP2

# Engagement B3



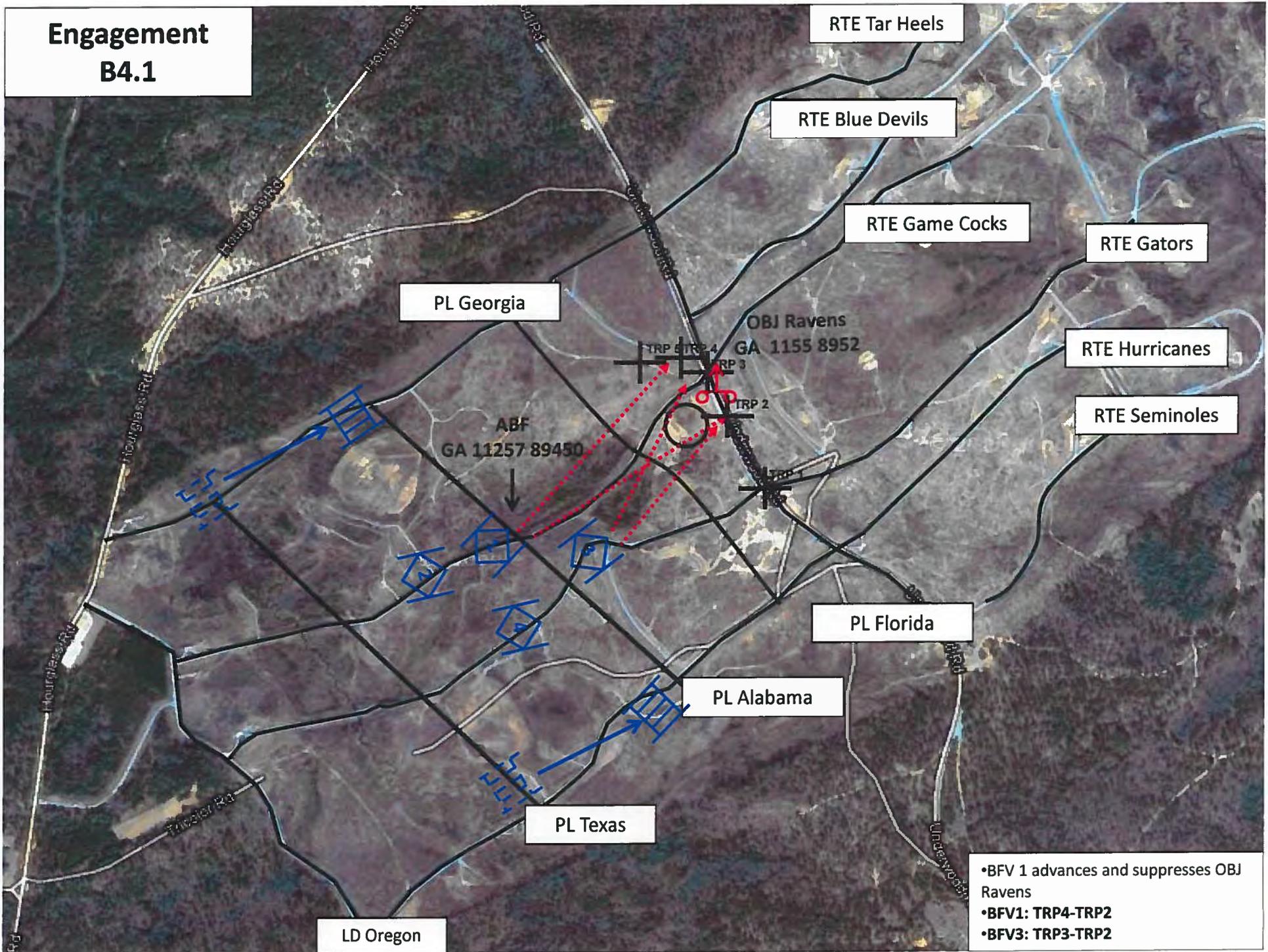
Tank 1: TRP2-TRP12

# Engagement B4



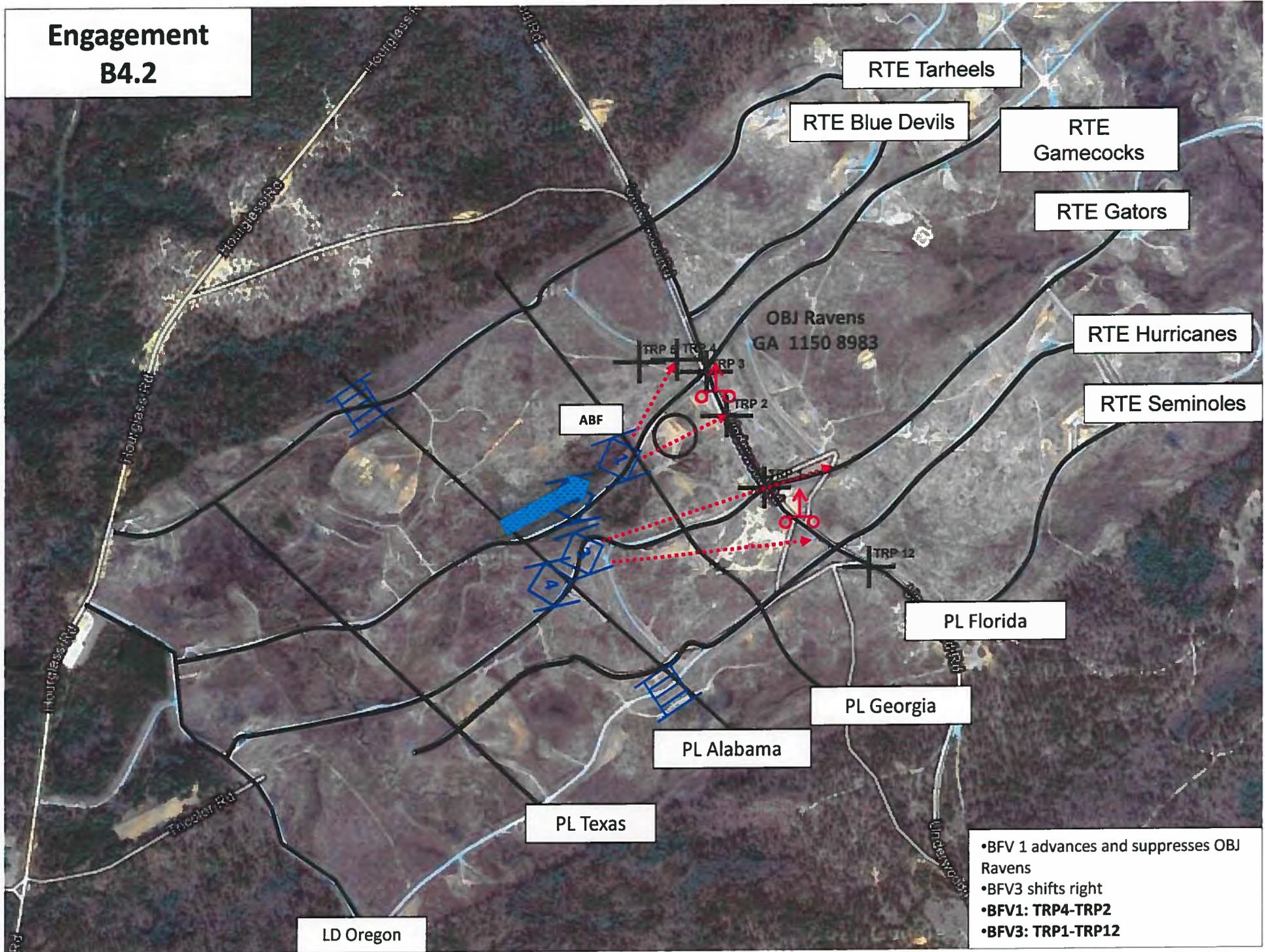
- Tanks Hold at PL Texas and conduct Battle hand over with Infantry PL.
  - Infantry SEC advances to PL Alabama.
  - BFV 3 will move forward and begin suppressing OBJ Ravens Targets in and around OBJ Ravens between TRP 2 and TRP 4 once at PL Alabama (see target list).
- BFV 3: TRP4-TRP2**

# Engagement B4.1



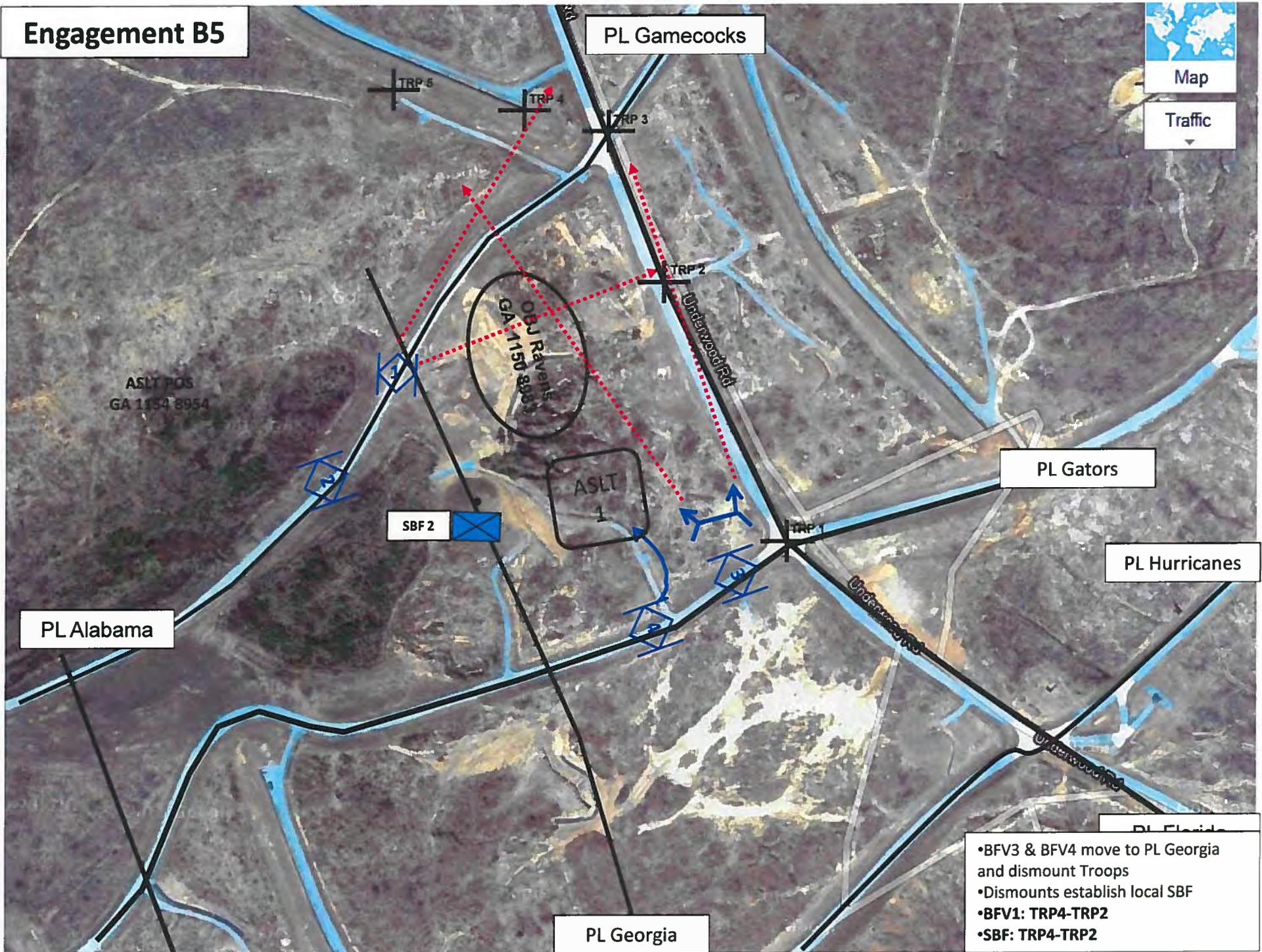
- BFV 1 advances and suppresses OBJ Ravens
- BFV1: TRP4-TRP2
- BFV3: TRP3-TRP2

# Engagement B4.2



- BFV 1 advances and suppresses OBJ Ravens
- BFV3 shifts right
- BFV1: TRP4-TRP2
- BFV3: TRP1-TRP12

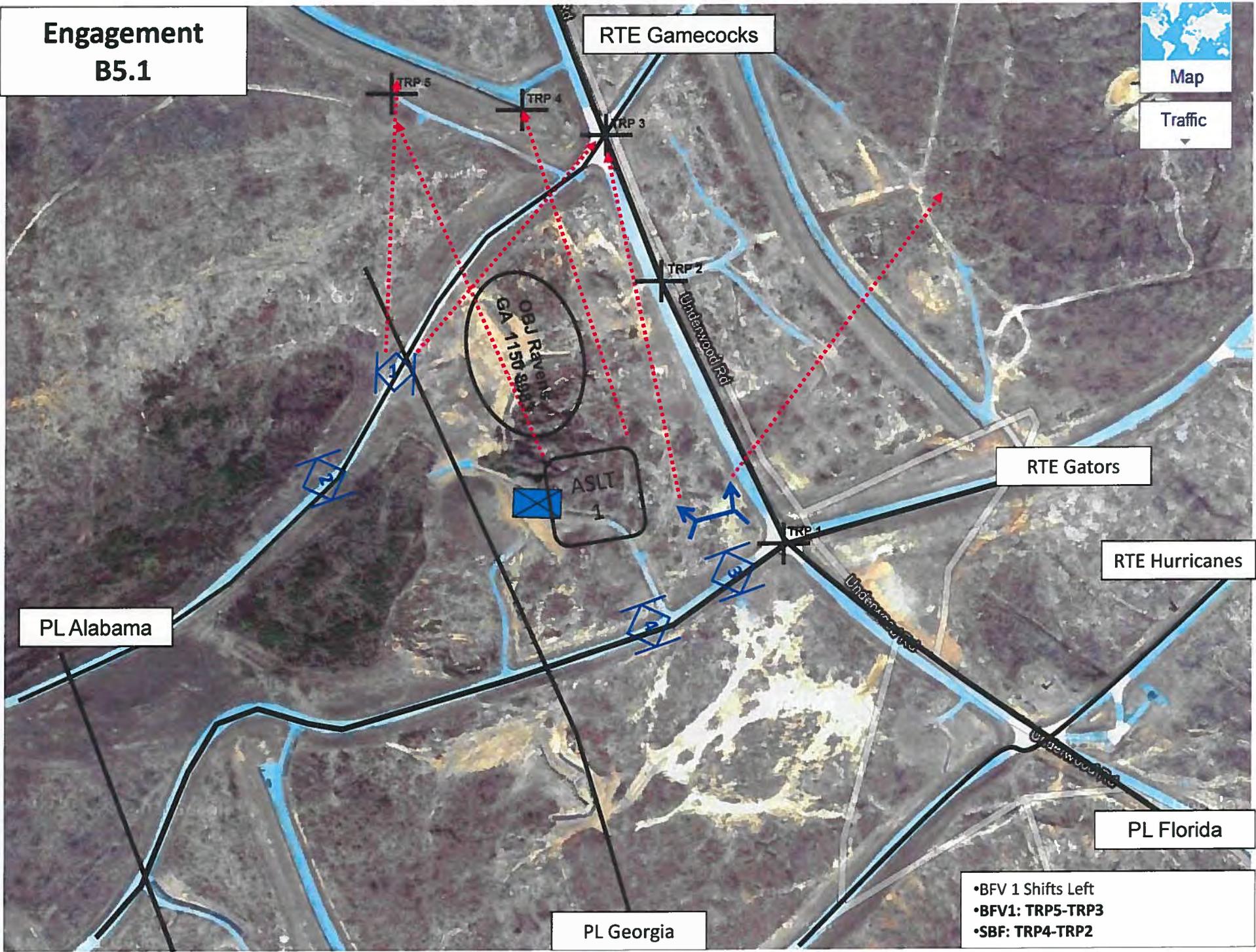
# Engagement B5



- BFV3 & BFV4 move to PL Georgia and dismount Troops
- Dismounts establish local SBF
- BFV1: TRP4-TRP2
- SBF: TRP4-TRP2

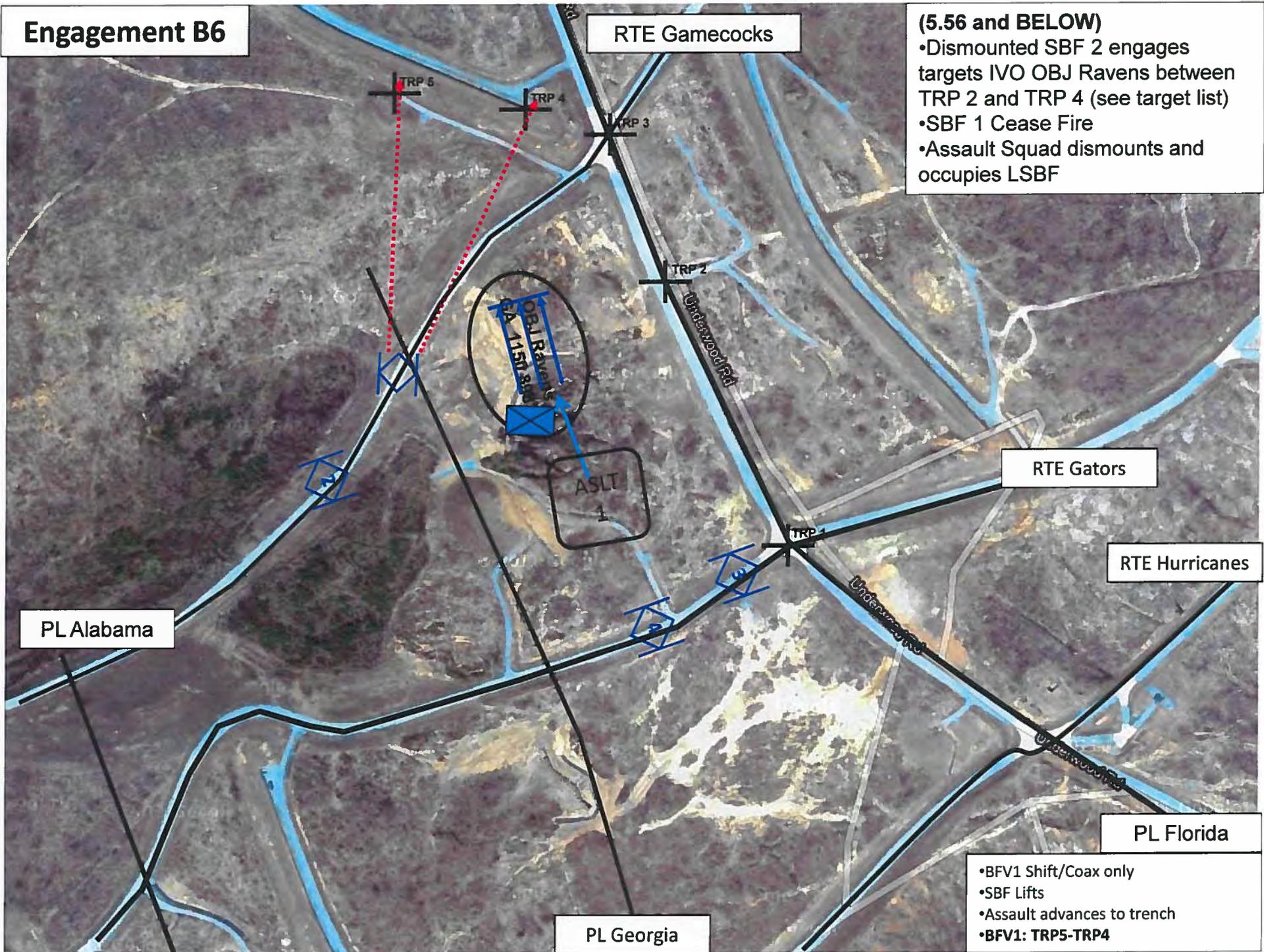
# Engagement B5.1

Map  
Traffic

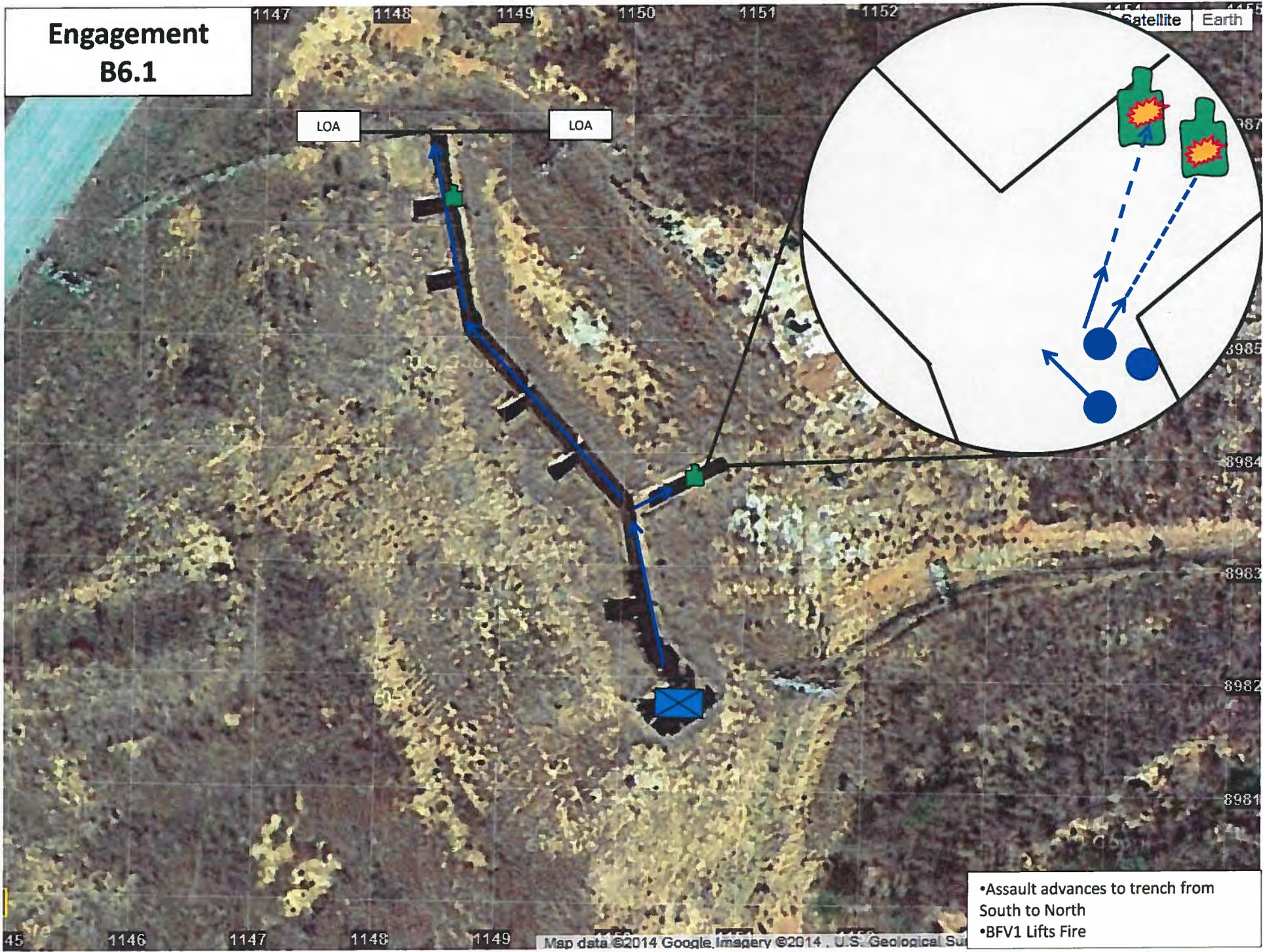


- BFV 1 Shifts Left
- BFV1: TRP5-TRP3
- SBF: TRP4-TRP2

# Engagement B6

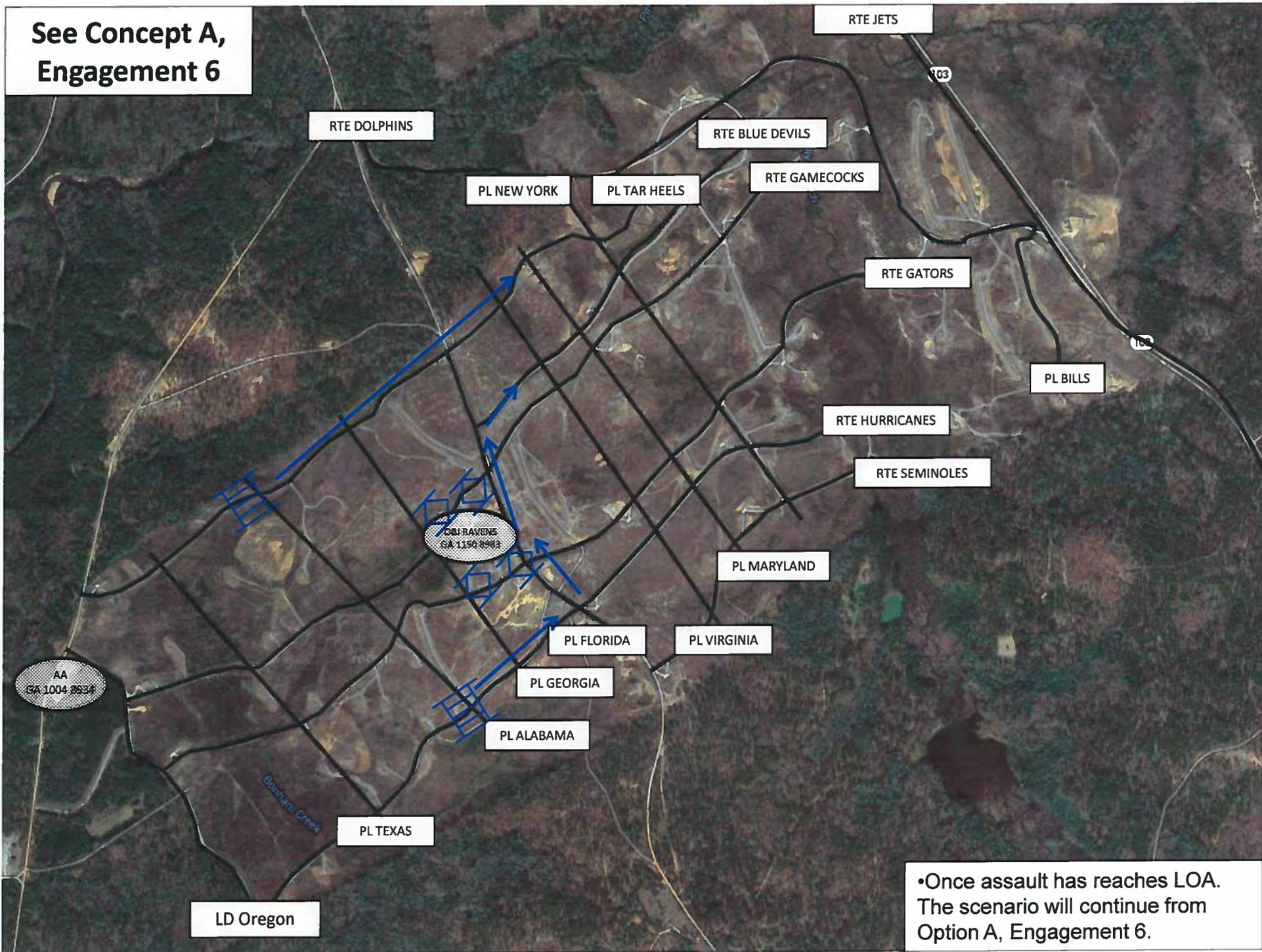


# Engagement B6.1



- Assault advances to trench from South to North
- BFV1 Lifts Fire

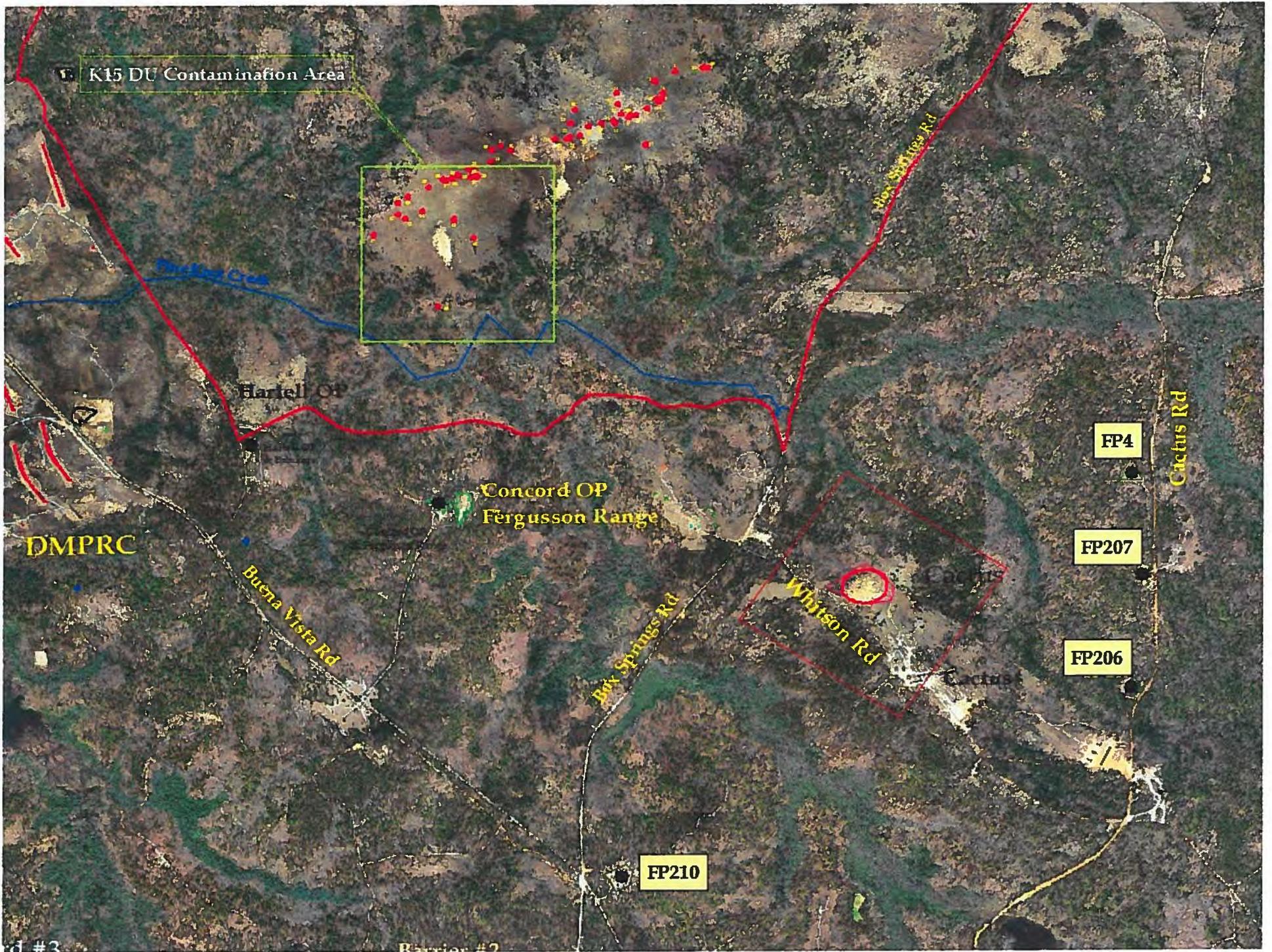
See Concept A,  
Engagement 6



•Once assault has reaches LOA.  
The scenario will continue from  
Option A, Engagement 6.

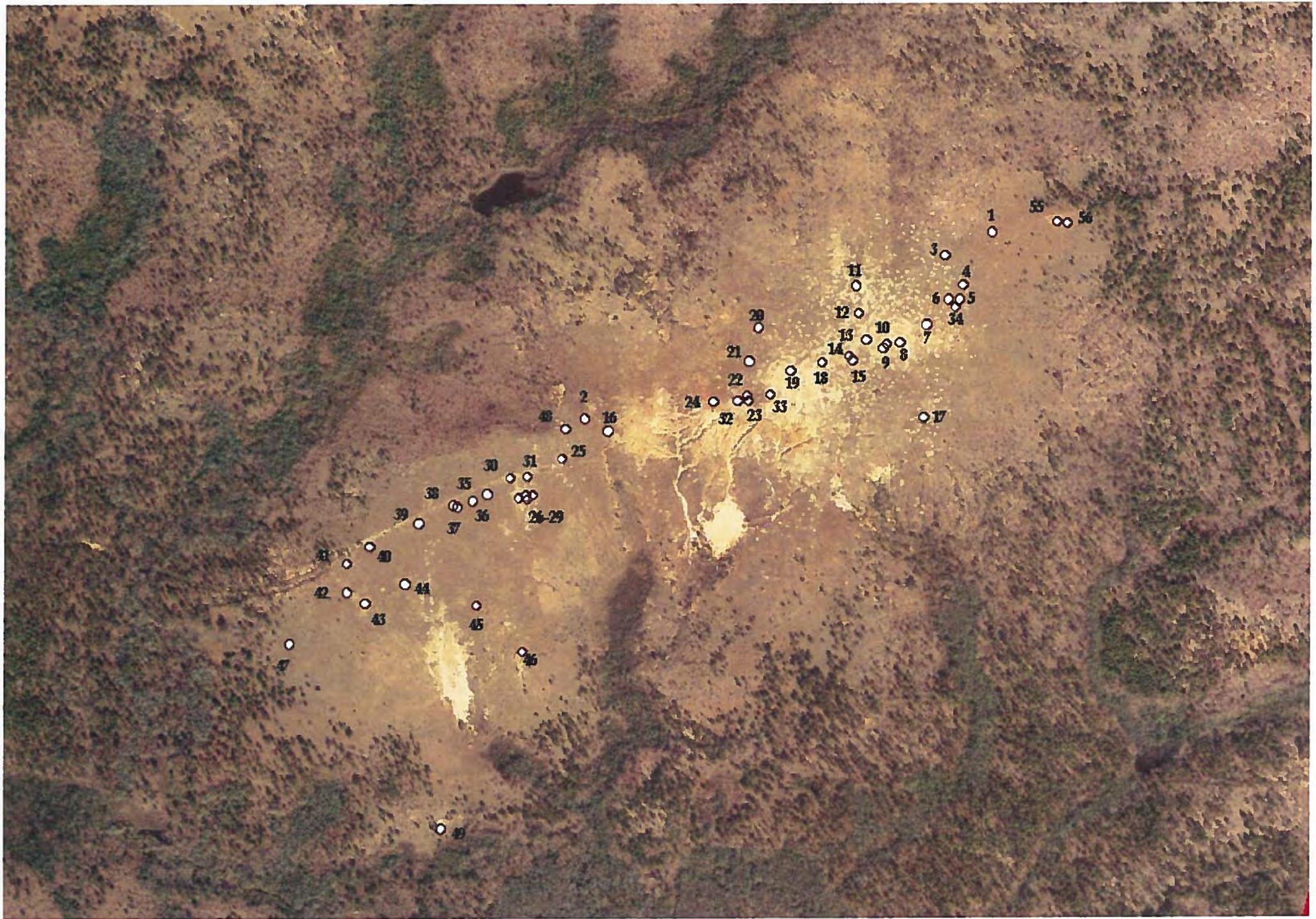
# IDF MFP 207 LOCATION





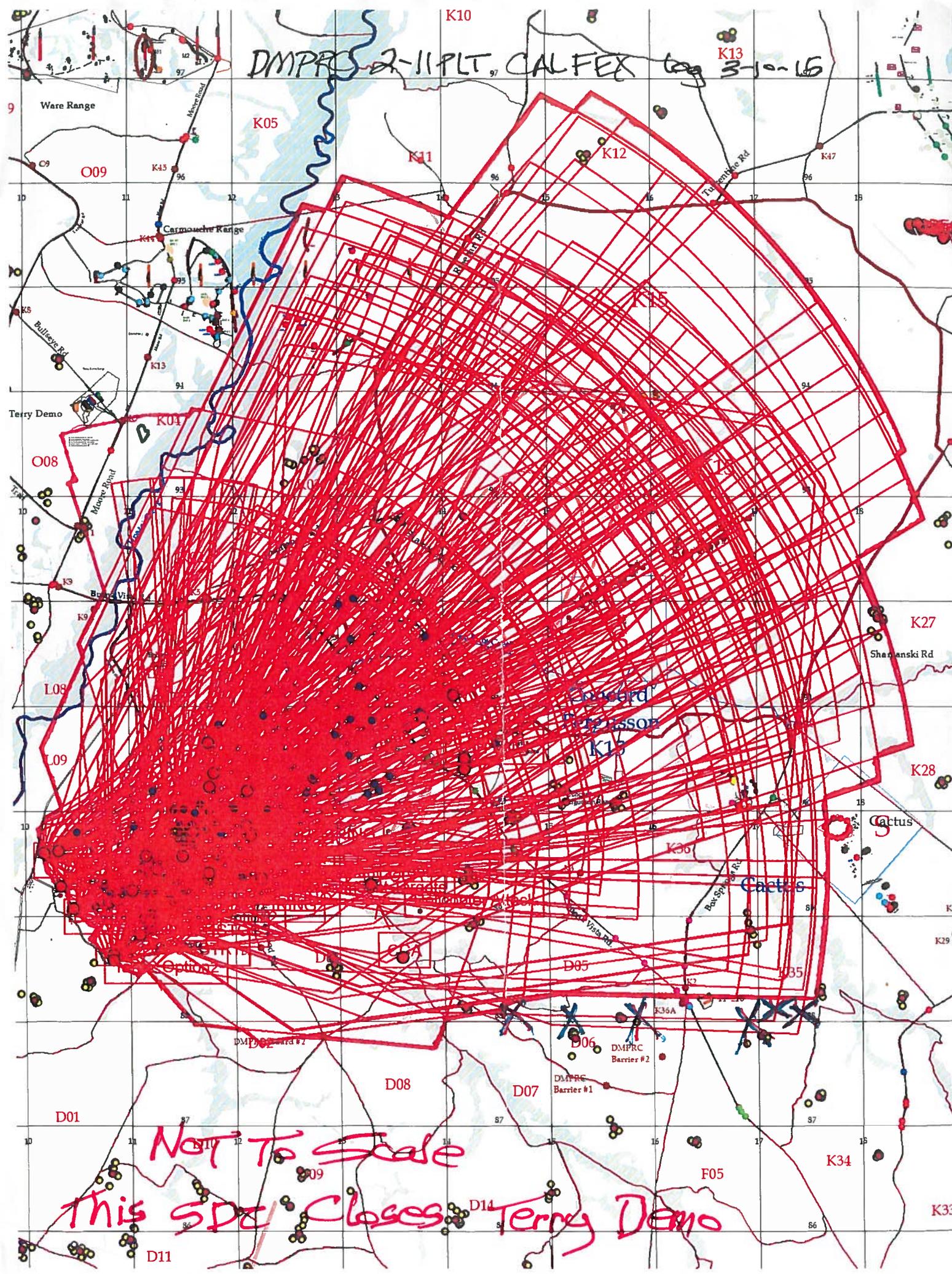
### K15 TARGETS Aug 1, 09

TARGET #	COORDINATES (GA)	TARGET #	COORDINATES (GA)
1	16772 92766	29	15715 92173
2	15862 92350	30	15697 92216
3	16668 92714	31	15733 92219
4	16708 92648	32	16205 92388
5	16701 92615	33	16279 92405
6	16675 92615	34	16691 92599
7	16627 92559	35	15645 92181
8	16568 92520	36	15611 92165
9	16530 92507	37	15578 92153
10	16537 92518	38	15568 92156
11	16468 92647	39	15491 92115
12	16476 92586	40	15382 92063
13	16492 92527	41	15330 92026
14	16453 92488	42	15331 91962
15	16461 92479	43	15372 91938
16	15914 92321	44	15460 91981
17	16621 92352	45	15622 91933
18	16393 92477	46	15725 91829
19	16323 92458	47	15203 91846
20	16250 92553	48	15820 92327
21	16230 92478	49	15543 91433
22	16225 92402	50	16045 93982
23	16228 92389	51	15920 93941
24	16151 92388	52	15729 93905
25	15812 92261	53	15742 93839
26	15746 92179	54	15645 93878
27	15734 92169	55	16920 92790
28	15731 92178	56	16942 92786





DMPRC 2-11 PLT CALFEX Log 3-10-15



NOT TO SCALE

THIS SDC CLOSURE Closes Terry Demo

**DMPRC 2-11 CALFEX Log #3-10-15 Road Block/Guard List, 4 May 2015**

**Use The Roadblocks and Roadguard Positions on Page 1 When Using DMPRC And FP 207 Simultaneously or DMPRC Separately.  
When Using FP 207 Only Use the Roadblocks Listed on Page 2.**

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-30	190 890	Across un-named trail on right side of Cactus Range 250m W of Cactus Road.	Gate
K-8	099 947	Across Bulls Eye Rd 50m E of its intersection with Lorraine Road.	Gate	K-32	192 915	Across Shamanski Rd 35m W. of its intersection with Cactus Rd.	Gate
K-9	103 921	Across Buena Vista Rd 40m E of the intersection with Moore Rd (Road Guard Location)	Gate	K-36	163 883	Across Buena Vista Rd 50m W. of its intersection with Box Springs Rd.	Gate
K-9A	106 919	Across tank trail 200m W of the Upatoi Creek ford site.	Gate	K-36A	163 882	Across Tank Trail 50m W. of its intersection with Box Springs Rd.	Gate
K-11	105 927	Across Moore Rd 20m N. of its intersection with Audernarde Trail. Entrance to Terry Demo Rng. (Road guard location)	Gate	K-38	201 941	Across unnamed trail 35m W. of its intersection with the east boundary road. Permanently closed.	Gate
K-13	112 943	Across Moore Rd 680m N. of its intersection with Bullseye Rd.	Gate	K-39	202 949	Across unnamed trail 15m W. of its intersection with the east boundary road. Permanently closed.	Gate
K-16A	172 989	Across Rinehart Rd 20m S. of its intersection with the northern boundary range road.	Gate	K-41	192 944	Across Kennesaw Trail 30m W. of its intersection with Box Springs Rd.	Gate
K-16B	171 990	Across un-named trail 20m S. of its intersection with the northern boundary range road.	Gate	K-42	193 944	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.	Gate	K-47	176 963	Across Turrentine Rd 1000m W. of mover 4 on Hastings Range	Gate
K-29	189 888	Across un-named trail on left side of Cactus Range 300m W of Cactus Road	Gate	D-1	098 878	On Hourglass road, 700 meters north of 1st Division Road.	Gate

**DMPRC 2-11 CALFEX Log #3-10-15 Road Guard List, 4 May 2015**

Guard #1	On Buena Vista Road at 1034 9213 (K-9 Roadblock) blocking traffic going East on Buena Vista Road.	Guard #3	On Underwood Road at 1283 8785 (Plymouth Rd intersection) blocking traffic going North on Underwood Road.
Guard #2	On Buena Vista Road at 1628 8822 (K36 Roadblock) blocking traffic going North-West on Buena Vista Road.	Guard #4	On Hourglass Road at 0978 8783 (D-1 Roadblock) blocking traffic going North on Hourglass Road.

**DMPRC 2-11 CALFEX Log #3-10-15 Road Barrier List, 4 May 2015**

Barrier #1	On un-named trail at 1553 8738 blocking traffic going West.	Barrier #2	On un-named trail at 1608 8766 blocking traffic going West.
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Note: All road guards will maintain communications with OIC. Guard #4 will allow DMPRC personnel access to the DMPRC Control Center.

