

FIRING/NONFIRING DATA

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

Log 8-04-12

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

Date: 22 AUG 2012
Range: DMPC
Title: Crew, Section, & Platoon Live Fire Gunnery(GT II - GT XII)
Problem No:

THRU: HHC, 2-69 AR BN
Fort Benning, GA 31905

FROM: 2-69 AR BN
Fort Benning, GA 31905

SECTION I, TYPE OF TRAINING

a. Live Fire b. Non-live Fire CP/Controller Coordinates: GA 0986 8872

SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS

Coordinates	Type	Model/DODAC	Size of Charges

SECTION III, WEAPONS/AMMUNITION REQUESTED

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

SECTION IV, LIVE FIRE EXERCISES Attach the following:

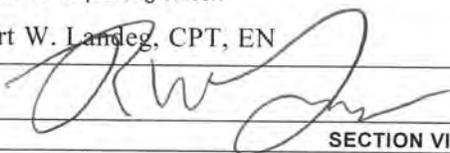
SECTION V, NON-LIVE FIRE TRAINING

- 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:

Robert W. Landeg, CPT, EN



Name/rank of Major Unit S3/Commander:

Daniel R. Stuewe, MAJ, IN



SECTION VI, FOR RANGE DIVISION USE

DATE: 29 August 2012

TO:

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

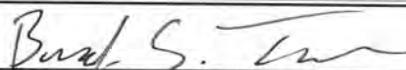
- a. Roadblocks to be closed:
- b. Road(s) to be closed/road barrier locations:
- c. Remarks:

See Roadblock and Roadguard List.

All Lasers are considered eye safe for training. The PEQ-2A will be set to dual low or aim low at all times. Laser warning signs will be placed at entrance to range.

d. This approval expires: 28 August 2014

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



ARTILLERY/MORTAR SAFETY RECORD

Log 8-04-12

For use of this form, see USAIC Regulation 350-19; the proponent is DPTMS, Range Division.

DATE: 22 AUG 2012 UNIT: 2-69 AR, 3rd BDE, 3rd ID

FIRING POINT #: FP 207 WEAPONS: 120mm Mortar

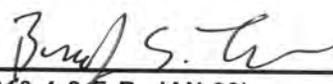
COORDINATES: 1921 8985 to 1921 8993

Weapon Projectile	Left Limit Mils	Right Limit Mils	Minimum Range Meters	Maximum Range Meters	Minimum Charge	Maximum Charge	Maximum Ordnance Meter
HE M57	5505	5710	3300	5800	4	8	3283
HE M934 & A1	"	"	"	"	2	4	3709
HE M933	5505	"	"	"	"	"	"
WP M68	5410	"	"	"	4	"	3283
WP M929	"	"	"	"	2	4	3774
ILL M91	"	"	"	"	6	8	3312
ILL M930	"	"	"	"	3	4	3711
IR ILL M983	"	"	"	"	"	"	"
FRPC M931	5410	5710	3300	5800	2	4	3823

SPECIAL INSTRUCTIONS: This FB Form 350-19-2-E-R must accompany the corresponding FB Form 350-19-1-E-R.

Non HE Targets = 1-25, 31-34, 48, 51-54.
 Non HE Targets = 1, 3-15, 17-24, 32-34, 51-54.

Name/rank/signature of requesting officer
 Daniel R. Stuewe, MAJ, IN
 Battalion Operations Officer

ARTILLERY/MORTAR SAFETY RECORD

Log 8-04-12

For use of this form, see USAIC Regulation 350-19; the proponent is DPTMS, Range Division.

DATE: 22 AUG 2012 UNIT: 2-69 AR, 3rd BDE, 3rd ID

FIRING POINT #:

WEAPONS:

FP 210

120mm Mortar

COORDINATES: 1645 8821 to 1659 8828

Weapon Projectile	Left Limit Mils	Right Limit Mils	Minimum Range Meters	Maximum Range Meters	Minimum Charge	Maximum Charge	Maximum Ordnance Meter
HE M57	6025	0120	4050	6000	6	10	3084
HE M934 & A1	"	"	"	"	3	4	3604
HE M933	"	"	4050	"	"	"	"
WP M68	"	"	3100	"	6		3084
WP M929	"	"	"	"	2	4	3794
ILL M91	"	"	"	"	4	10	3982
ILL M930	"	"	"	"	2	4	3734
IR ILL M983	"	"	"	"	"	"	"
FRPC M931	0625	0120	3100	6000	2	4	3846

SPECIAL INSTRUCTIONS: This FB Form 350-19-2-E-R must accompany the corresponding FB Form 350-19-1-E-R.

Non HE Targets = 1-56.

HE Targets = 1, 3-15, 17-24, 32-34, 50-56

Name/rank/signature of requesting officer

Daniel R. Stuewe, MAJ, IN
Battalion Operations Officer



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



DMPRC, 2-69 AR BN Section/Platoon Gunnery (Log #8-04-12) Tank Weapons/Ammo List Enclosure

Firing Positions	Weapons	Ammunition	Left Limit Mils, Grid Az	Right Limit Mils, Grid Az
Engagement 1: MB 1-1	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	0620 0610	1390 0935
Engagement 1: MB 3-1	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	0620 0725	1390 1235
Engagement 1: MB 4-1	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	0460 0795	1215 1245
Engagement 1: MB 5-1	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	0460 0515	1215 1215
Engagement 2 Left: 1167 9027	M1 Tank M256, M2	120mm M831/M865 , .50 cal Ball/Tracer	0635	1010
Engagement 2 Left: 1168 9016	M1 Tank M256, M2	120mm M831/M865 , .50 cal Ball/Tracer	0635	1010
Engagement 2 Right: 1196 8958	M1 Tank M256, M2	120mm M831/M865 , .50 cal Ball/Tracer	0460	1110
Engagement 2 Right: 1222 8938	M1 Tank M256, M2	120mm M831/M865 , .50 cal Ball/Tracer	0460	1110
Engagement 3: BP 2B	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	0560 0610	1060 0760
Engagement 3: BP 3B	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	0560 0955	1060 1155
Engagement 3: BP 5C	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	0435 0850	1200 1105
Engagement 3: BP 6C	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	0435 0475	1200 1000
LOA Left: 1229 9088	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	0460 0655	1125 0730
LOA Left: 1240 9075	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	0460 1110	1125 1170
LOA Right: 1272 9011	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	0255 0735	1200 1035
LOA Right: 1279 8996	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	0255 0480	1200 0755

DMPRC, 2-69 AR BN Section/Platoon Gunnery (Log #8-04-12) BFV Weapons/Ammo List Enclosure

Firing Positions	Weapons	Ammunition	Left Limit Mils, Grid Az	Right Limit Mils, Grid Az
Engagement 1: MB 1-1	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	0620 0610	1390 0935
Engagement 1: MB 3-1	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	0620 0725	1390 1235
Engagement 1: MB 4-1	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	0460 0795	1215 1245
Engagement 1: MB 5-1	BFV M242 M240	25mm M793 , M910 7.62mm Ball/Tracer	0460 0515	1215 1215
Engagement 2: BP 2B	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	0560 0610	1060 0760
Engagement 2: BP 3B	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	0560 0955	1060 1155
Engagement 2: BP 5C	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	0435 0850	1200 1105
Engagement 2: BP 6C	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	0435 0475	1200 1000
LOA Left: 1229 9088	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	0460 0655	1125 0730
LOA Left: 1240 9075	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	0460 1110	1125 1170
LOA Right: 1272 9011	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	0255 0735	1200 1035
LOA Right: 1279 8996	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	0255 0480	1200 0755

DMPRC, 2-69 AR BN Section/Platoon Gunnery (Log #8-04-12) BFV Last OBJ Dismount Weapons/Ammo List Enclosure

Firing Positions	Weapons	Ammunition	Left Limit Mils, Grid Az	Right Limit Mils, Grid Az
BP 3D: 1285 9115 & 1291 9112	BFV M242 M240	25mm M793 , M910 7.62mm Ball/Tracer	0130 0130	1110 0720
MB 4-3: 1263 9043 to 1275 9059	BFV M242 M240	25mm M793 , M910 7.62mm Ball/Tracer	0830 0830	1440 1440
SBF: 1368 9063	M4/M249	5.56mm Ball/Tracer	6160 Shift 0870	1200 Shift 1200
BFV Overwatch #1: 1341 9081	M240	7.62mm Ball/Tracer	1365	1600
BFV Overwatch #2: 1358 9078	M240	7.62mm Ball/Tracer	0630	1230
3rd OBJ: 1366 9082	M4/M249	5.56mm Ball/Tracer	5780	2130



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

ATZB-SO

28 August 2012

MEMORANDUM FOR Commander, 2/69th AR Bn, Attn: CPT Robert Landeg, Fort Benning, GA 31905

SUBJECT: 2/69th Armor Battalion M1 and M2 Tables XII Gunnery at DMPRC Concept and Safety Review

1. References.

- a. Crew, Section, and Platoon Live Fire Gunnery (GT II – GT XII), 23 August 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. Concur w/comment.

- a. Concept paper, paragraph 6a(2), pg 4. Correct reference is MCoE Regulation 350-19.
- b. Concept paper, paragraph 6a(2)(c), pg 6. Recommend that you mark the “HOT” and COLD “ walls of all buildings on the objective for preventing fratricide.
- c. Concept paper, paragraph 6a?? (Abrams), pg 7. Headers and paragraph miswritten. 25mm TP-T and TPDS-T ammunition is not capable of use in the M1 series.
- d. Concept paper, paragraph 6a(2), pg 8. Correct reference is MCoE Regulation 350-19.

ATZB-SO

SUBJECT: 2/69th Armor Battalion M1 and M2 Tables XII Gunnery at DMPRC Concept and Safety Review

e. Concept paper, paragraph 7d, pg 11. Dismounted Soldiers weapons systems must be in an "AMBER" condition.

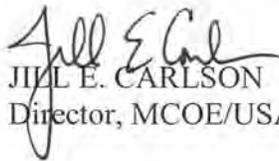
f. Concept paper, paragraph 11, pg 13. The ammunition holding areas must have two 10 lb. BC fire extinguishers.

g. Concept paper, paragraph 14b, pg 15. The Battalion Commander must lead the TEWT, not the Range OIC.

h. CRMW, Block 8, pg 12. "Soldiers injured from effects of short rounds", recommend that you address the prohibition of overhead firing of ground troops.

i. CRMW, Block 8, pg 15. "Fratricide from Assaulting BFV on Dismounted Squad", recommend that lane walkers wear a bright and reflective vest to identify the movement and location of dismounted Soldiers while they fire and maneuver.

3. 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
HEADQUARTERS, 2ND BATTALION, 69TH ARMOR REGIMENT
BUILDING 9171, MARNE ROAD
FORT BENNING, GEORGIA 31905-5950

AFZP-VIC-C

23 August 2012

MEMORANDUM FOR CHIEF, FANGE OPERATIONS, DPTMS, Fort Benning, Georgia
31905

ATTN: MR. TESCH, FORT BENNING, GA 31905

SUBJECT: Scenario for DMPRC Section and Platoon LFX (Day and Night)

1. The purpose of this memorandum is to outline the scenario for the Section and 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. 3rd BDE Leaders will be given sufficient time to prepare and formulated a plan for the training exercise (OPORD) which will outline and give a detailed description of their mission, task organization, execution, direct and indirect fire control measures, and other safety considerations. Each Platoon will conduct rehearsals in the form of key leaders backbriefs, TEWT, leaders rock drill, specialty team rehearsal, and a blank fire exercise on offset but similar terrain. The Simulation Center (CCTT) will be an integral asset to sections and platoons in their rehearsal process.

2. REFERENCE:

- a. Army Regulation 385-63 and 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

3. Collective Tasks:

- a. Prepare for Combat (conduct TLP's)
- b. Develop and communicate a plan
- c. Conduct platoon attack
- d. Move tactically (mounted and dismounted)
- e. React to contact (IED, Small Arms, RPG)
- f. Enter a building and clear a room
- g. Treat and evaluate casualties
- h. Perform consolidation and reorganization
- i. Employ indirect fire
- j. Integrate combat enablers

4. Ammunition:

- a. M2A3: 25mm M793 TP-T/ M910 APDS-T, 7.62 COAX Ball, Tracer, Link 4:1
- b. M1A2: 120mm C784 HEAT/ C785 Sabot/ CA31 MPAT/ CA38 Canister
- c. HMMWV: .50 Cal, M240: 7.62mm link 4:1 (A131)
- d. M16/M4: 5.56mm
- e. M203: TP-T/ ILLUM/ Smoke
- f. 12 Gauge Shotgun: Buckshot/ Hatton/ Slug
- g. M249: 5.56mm link 4:1

- h. M240: 7.62mm link 4:1 (A131)
 - i. M2 .50 Cal
 - j. 120mm Mortar: HE, ILLUM, WP
 - k. M109A6: 155mm HE, ILLUM, M825 Smoke
 - l. Flashbang Grenades
 - m. Miscellaneous Pyrotechnics
 - n. Blank Ammunition: 5.56mm, 7.62mm, .50 Cal
5. Pyrotechnics:
- a. Hand smoke/ G878, G930, G940, G945, G950, G955
 - b. White Star Clusters (L307) and Red Emergency Star clusters (L305)
 - c. Grenade Simulator (L601)
 - d. Artillery Simulators
 - e. Pen Flares
6. Concept of Operations:

BRADLEY FIGHTING VEHICLES:

a. General. The 3HBCT, 3ID will be conducting a LFX on the Digital Multi Purpose Range Complex (DMPRC) in four (4) PHASES: 1) Prepare for Combat, 2) Infiltration, 3) Attack OBJ 1, 4) Exfiltration. The live fire exercise involves fire and maneuver into an objective area and using indirect fire support along with the incorporation of the various combat enablers. For the purpose of this operation the 3HBCT will ensure that the Battalions organized their companies and platoons to facilitate the training objectives.

1) Vehicles will be uploaded with their respective ammunition type (7.62mm, 25mm TP-T and TPDS-T) at the first Battle Position on the lane they are firing from. 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. Prior to the live-fire exercise, each vehicle will cycle their ghost round at the first Battle position in their respective lanes.

The tables of interest will be GT IX and XII. These tables will be live fire tables.

Platoons can advance to live fire tables, they have to meet the requirements and certification criteria set forth and enforced by the Battalion Commander, S-3, and Master Gunners. Each platoon must complete and successfully pass a dry and blank-fire exercise before moving to the live-fire. The Lanes that will be used are lanes 3, 4, 5, and 6 for Platoon (SEE TARGET LIST). All firing points and/or maneuver boxes on the range for each lane will and can be utilized providing that they meet the requirements of Range Control and DMPRC. 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 (SEE SKETCH), 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. The next group of vehicles will not begin the LFX until the previous vehicles are out of the clearing pit.

2) The Call for Fire (CFF) and/ or Call for Support Engagements will be IAW the HBCT manual, the MCoE regulations as well as the guidelines of the DMPRC. These engagements can and will be fired from any location with guidance from the providing that the impact area is clearly visible. Mortars will also be integrated into the training and will be firing the above mentioned weapons and ammunition. The firing unit will ensure that all safety procedures are met and are in compliance with the MCoE regulations and are approved by Range Control and the DMPRC. Mortars will be firing from FP 207 and FP 210. The designated impact area will be the "K15" impact area. Mortar teams will ensure that they designate one tube to fire HE Only and the other to fire each type of round. This is to compensate for the min range and/or the specific charges for the type of rounds in order to clear any HE impacting into the DU contamination area inside K15. Indirect fire (PALADIN SOP) will be from the various compartments that facilitates "Paladin-fire". Paladin firing points will be scheduled in conjunction with the DMPRC. All indirect fire engagements will be IAW the MCoE Regulation 350-19-2 and the miscellaneous paladin compartments. The command to fire will only be given after all key personnel confirm that the 'K-15' is clearly visible. The FSO will be on the ground to confirm and/or deny all indirect fire adjustments. The command to cease fire will be given when the K-15 is no longer visible.

a) Phase 1- Prepare for combat. This phase begins with the Platoon leadership receiving the WARNO. The Platoon will receive the OPORD for the LFX and will be given adequate time to formulate a plan. They will begin TLP's and the planning process and conduct specialty team rehearsals. The platoon leader will deliver his platoon OPORD prior to the LFX with the OCs and Range Cadre present. The OPORD and key leader back-briefs/ rehearsals will take place in the designated areas (Company Command Post/ AA). This phase ends with the

Section or Platoon mounted in their respective vehicle composition/
configuration.

b) Phase 2- Infiltration. This phase begins when the vehicles start their
movement. At a certain point in time, the Section and/or Platoon will move to the Line
to complete their ghost round and report "REDCON 1". The Section
and/or Platoon "will" from multiple sources will move along the designated
route (SEE SKETCH). All weapons will be oriented down range
towards the vehicles and personnel at either the "10 o'clock" or "2
o'clock" positions. Vehicles will remain on electrical safe until an Identifiable
Target is sighted (SEE TARGET LIST). **FIRST ENGAGEMENT:** The
Section and/or Platoon will be assigned to "GA1020 8957 to GA1032 8962" and MB3-1 "GA1035 8925
to GA1060 8933." The right sectors will be MB4-1 "GA1048 8905 to GA1067
8910" and MB5-1 "GA1082 8860 to GA1108 8881" (SEE TARGET LIST).
Commanders, S-3s and Master Gunners will have the option to emplace IED
simulators during the training exercise. IED simulators can ONLY be emplaced
between the line of departure (LD) GA 1020 8957 to GA 1082 8859 and PL 1 GA
1148 9038 to GA 1220 8936. IED Simulators will be inert and will be obtained
from the TSC. Once the IED attack has been initiated, the section and/or platoon
will send the necessary reports to their higher headquarters. Once the reports
have been made the unit will report negative BDA on own vehicles and push
through wards the OBJ. While vehicles are on the move towards PL 3 they will
engage targets according to the target list. Upon completion of targetry on Step 5
movement will be covered in detail due to the complexity.

- Reference: For situational awareness the tracks will ordered from left to right
as follows: PL's wingman (2 track), PL (1 track), PSG (4 track), and PSG
wingman (3 track).
- The 4 track, located in lane five, places weapon on electrical/manual safe
and orients on the right range fan. At this time the 2 and 1 tracks will move to
BP 2C and BP 3C while the 3 and 4 tracks will collapse back onto lane 4 with
the 3 track taking the lead. The 3 track will conduct a short halt on pivot pad
next to BP 4C.
- Once all tracks are set the 3 and 4 tracks will begin to bound to BP 4D.
Between BP 4C and BP 4D (MB4-3) targets will be presented for offensive
engagement. Since the 4 track is trailing the 3 track and still on safe, the 3
track will be the ONLY one engaging targets. The targets for this step are: SA
48 and SA 41.
- Once the 3 and 4 tracks are set on the road next to BP 4D, the 2 and 1 tracks
will collapse onto lane 3 and bound forward to BP3D. One track will occupy
the BP and one track will conduct a short halt on the course road adjacent to
the BP at Grid 16S GA 12914 891121. The higher HQ will report enemy
activity in vicinity OBJ.

Plat =
Platoon?

- Once the 2 and 1 tracks are set the 3 and 4 tracks will continue along the course road to the East and drop dismounts for the SBF in between movers M302 and M303. Tracks 3 and 4 will be on electrical and manual safe from this point on.
- While the 3 and 4 tracks are dropping dismounts and the SBF is setting in, targets will be presented to the 2 and 1 tracks. Those targets will be: Step 7, Step 8, and Step 9.
- Once SBF is set, portable targets will be presented to them on the side of the OBJ house, also the 2 and 1 tracks will move forward to drop dismounts. The SBF sector will be LL=6160mils and RL=1200mils. The 2 and 1 tracks will advance along the course road towards the OBJ and once they reach grid GA 1344 9081 (marked by an orange cone) they will stop and initiate fire on the OBJ with COAX only (7.62mm). This will signal to the SBF to shift fire from the house. The shifted fire new sector is LL=0870mils and RL=1200mils. The Platoon Leader will wait for FM confirmation from the SBF that they have shifted fire before moving on. They will then continue to the intersection of the course road and Buena Vista where they will drop dismounts. Once on the ground the assaulting Squad Leader will consolidate his element from the two Bradleys and then signal the PL that he is ready to assault. The PL will call for lift fire of the Bradleys on the OBJ and the assaulting SL will only move forward after confirmation the Bradleys are in cease fire status. At this point the 2 and 1 tracks will be on electrical and manual safe. They will symbolically overwatch both ends of Buena Vista road while the assault force clears the OBJ. This Phase ends once the dismounts are on the ground and make link-up with the key elements.

c) Phase 3- Attack OBJ. Once link-up has been made and the first set of targets are destroyed. Troops will move to Enter and clear buildings on OBJ. Vehicles will remain along the roads and provide overwatch for the troops on the ground. As team and squads conduct the attack on the OBJ, they will be presented with numerous targets (SEE SKETCH). Teams and squads will be evaluated on their movement techniques and their ability to engage and destroy the enemy as well as accomplishing mission objectives. Squad Leaders will control movement through the buildings. The rooms will be cleared one at a time ensuring no elements will be on the wrong side of a HOT wall. Targets will be positioned to create northeast direction of fire. Additionally OCs will act as a second level of supervision to ensure safety protocol is maintained. Support by Fire (SBF) elements will be presented with targets in the shift-fire sector of 0870mils-1200mils during the assault. The primary and alternate means of shifting/lifting fire will remain in effect. Once SBF targets are complete SBF will ensure that their weapons are on safe and oriented way from the building. Once the building(s) have been cleared SBF will be called forward. Depending on guidance from higher headquarters a FRAGO will be issued to the Section and/or Platoon, on whether or not to continue movement. This phase ends with the PL

or PSG reporting that all buildings on OBJ have been cleared. Vehicles will stage on the intersection of course road and Buena Vista for exfiltration.

d) Phase 4- Exfiltration. This phase starts when all Soldiers have remounted the vehicles. Prior to remounting the vehicles all machine guns (M240B and M249s) will be cleared. Soldiers/ Dismounts will ensure their weapons (m16/M4s) are on safe and pointed in a safe direction (muzzle toward the floor). Dismounted Squads will move back to their respective vehicle, re-mount and prepare to exfil. Commanders will dictate where and when sections and/or platoons will begin their retrograde movement back towards the AA/LD and/or Bound to previous BP's (same targets) to conduct their call for task. Once section and/or platoon has conducted their retrograde movement towards the AA/LD, and has passed Underwood Road, all call for tasks will be unavailable. Again, based on guidance from higher, the section and/or platoon will be presented with targets to facilitate the "Conduct Disengagement" task. This phase ends when the BDA is reported to the higher headquarters and vehicles begin their retrograde movement along the course roads.

e) Once
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ABOVE

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vs
static ?

Weapon systems are cleared and all vehicles
Once the finishing section/platoon is complete
iteration will start (SAME AS OUTLINED)

ABRAM

a. General. The 3HBCT, 3ID will be conducting a LFX on the Digital Multi Purpose Range Complex (DMPRC) in five (5) PHASES: 1) Prepare for Combat, 2) Infiltration, 3) Attack OBJ 1, 4) Exfiltration. The live fire exercise involves fire and maneuver into an objective area and using indirect fire support along with the incorporation of the various combat enablers. For the purpose of this operation the 3HBCT will ensure that the Battalions organized their companies and platoons to facilitate the training objectives.

1) Vehicles will be uploaded with their respective ammunition type (7.62mm, 25mm TP-T and TPDS-T) at the first Battle Position on the lane they are firing from. 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. Prior to the live-fire exercise, each vehicle will cycle their ghost round at the first Battle position in their respective lanes. The tables of interest will be GT IX and XII. These tables will be live fire tables. Before Sections and/or 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 Gunners. Each section and/or platoon must complete and successfully pass a dry and blank-fire

exercise before advancing to the live-fire The Lanes that will be used are lanes 3 and 4 for Section Qualification tables and lane 1, 2, 3, 4, 5 and 6 for Platoon Qualifications. (SEE TARGET LIST). All firing points and/or maneuver boxes on the weapons/ammo enclosure for each lane will and can be utilized providing that they meet the requirements of Range Control and DMPRC. 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 (SEE SKETCH), 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. The next group of vehicles will not begin the LFX until the previous vehicles are out of the clearing pit.

2) The Call for Fire (CFF) and/ or Call for Support Engagements will be IAW the HBCT manual, the MCoE regulations as well as the guidelines of the DMPRC. These engagements can and will be fired from any location with guidance from the providing that the impact area is clearly visible. Mortars will also be integrated into the training and will be firing the above mentioned weapons and ammunition. The firing unit will ensure that all safety procedures are met and are in compliance with the MCoE regulations and are approved by Range Control and the DMPRC. Mortars will be firing from FP 207, FP 210 ~~and/or FP Underwood~~. The designated impact area will be the "K15" impact area. Mortar teams will ensure that they designate one tube to fire HE Only and the other to fire each type of round. This is to compensate for the min range and/or the specific charges for the type of rounds in order to clear any HE impacting into the DU contamination area inside K15. Indirect fire (PALADIN SOP) will be from the various compartments that facilitates "Paladin-fire". Paladin firing points will be scheduled in conjunction with the DMPRC. All indirect fire engagements will be IAW the MCoE Regulation 350-19-2 and the miscellaneous paladin compartments. The command to fire will only be given after all key personnel confirm that the 'K-15" is clearly visible. The FSO will be on the ground to confirm and/or deny all indirect fire adjustments. The command to cease fire will be given when the K-15 is no longer visible.

3) Phase 1- Prepare for combat. This phase begins with the Platoon leadership receiving the WARNO. The Platoon will receive the OPORD for the LFX and will be given adequate time to formulate a plan. They will begin TLP's and the planning process and conduct specialty team rehearsals. The platoon leader will deliver his platoon OPORD prior to the LFX with the OCs and Range Cadre present. The OPORD and key leader back-briefs/ rehearsals will take place in the designated areas (Company Command Post/ AA). This phase ends with the Section or Platoon mounted in their respective vehicle composition/ configuration.

4) Phase 2- Infiltration. This phase begins when the vehicles start their movement. At this point in time, the Section and/or Platoon will move to the Line of Departure (LD), cycle their ghost round and report "REDCON 1". The Section and/or Plat gaining "Intel" from multiple sources will move along the designated routes towards OBJ 1(SEE SKETCH). All weapons will be oriented down range and away from other vehicles and personnel at either the "10 o'clock" or "2 o'clock" position. All vehicles will remain on electrical safe until an Identifiable Enemy target is presented (SEE TARGET LIST). **FIRST ENGAGEMENT:** The left sector is MB1-1 "GA1020 8957 to GA1032 8962" and MB3-1 "GA1035 8925 to GA1060 8933." The right sectors will be MB4-1 "GA1048 8905 to GA1067 8910" and MB5-1 "GA1082 8860 to GA1108 8881" (SEE TARGET LIST). Commanders, S-3s and Master Gunners will have the option to emplace IED simulators during the training exercise. IED simulators can ONLY be emplaced between the line of departure (LD) GA 1020 8957 to GA 1082 8859 and PL 1 GA 1148 9038 to GA 1220 8936. IED Simulators will be inert and will be obtained from the TSC. Once the IED attack has been initiated, the section and/or platoon will send the necessary reports to their higher headquarters. Once the reports have been made the unit will report negative BDA on own vehicles and push through wards their designated point. The higher HQ will report enemy activity in vicinity OBJ 1 and/or OBJ 2. While vehicles are on the move towards the phase lines they will engage targets according to the target list. The Platoon Leaders and/or Platoon Sergeants will move up to the IV-Line Vic Underwood Road.

5) Phase 3- Attack OBJ 1. On call from higher sections and/or platoons will provide SBF for troops (troops will be notional for tank platoons). **SECOND ENGAGEMENT** position (Engagement 2 Left GA 1167 9027, GA 1168 9016 and Right GA 1196 8958, GA 1222 8938 see target list). Once the call has been made, "Objective cleared" the vehicles will move online and Targets will be presented for vehicles (see target list). This phase ends with the vehicles set in position at PL 2, and the PL or PSG reporting that all buildings on OBJ 1 have been cleared. Vehicle 1 (Lane 1) will transition from lane 1 to lane 2, Vehicle 2 will remain in lane 3 and Vehicle 3 and Vehicle 4 will transition to lanes 5 and 6 respectively prior to SBF 1 being established.

6) Phase 4- Follow-On Mission. This phase begins when the higher headquarter issues a FRAGO to the PL or PSG. The PL and/or PSG will formulate a plan. Vehicles will ensure that they remain on-line providing over watch and SBF for the troops on the ground (notional). This phase ends after all buildings/ rooms on OBJ 2 are cleared (notional) and vehicles have moved into their **THIRD ENGAGEMENT** position (BP2B GA1194 9054, BP3B GA1203 9041, BP5C GA1244 9011 andBP6C GA1254 8990 see target list). Platoon will then consolidate and reorganized and make their assessment as necessary and send their reports to the Company Commander and the higher HQ.

7) Phase 5- Exfiltration. This phase starts when all vehicles are in Vic PL 4. The Section and/or Platoon will be presented with targets based on the presented scenario worksheet and will continue movement based on the Commander's intent all the way to the LOA. The LOA for each vehicle is as follows: Vehicle 1 GA1229 9088, Vehicle 2 GA1240 9075, Vehicle 3 GA1272 9011, Vehicle 4 GA1279 8996 (SEE TARGET LIST). Commanders will dictate where and when sections and/or platoons will begin their retrograde movement back towards the AA/LD and/or Bound to previous BP's (same targets) to conduct their call for task. Once section and/or platoon has conducted their retrograde movement towards the AA/LD, and has passed Underwood Road, all call for tasks will be unavailable. Again, base on guidance from higher, the section and/or platoon will be presented with targets to facilitate the "Conduct Disengagement" task. This phase ends when the BDA is reported to the higher headquarters and vehicles begin their retrograde movement along the course roads.

8) Once 1st iteration is complete, all weapon systems are cleared and all vehicles will move back to the start point. Once the finishing platoon is complete and cleared from the range the 2nd iteration will start.

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

7. SAFETY:

a. 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 day/night dry-black fire exercises will be conducted prior to platoons getting the clearance to participate in any live fire exercise (LFX). The dry-fire, blank fires exercise (BFX) and the live fire exercise (LFX) will have dedicated Observer/Controller teams.

1) The Observer/ Controller team for the live fire exercise will consist of the Battalion/Squadron Commander, the Battalion/Squadron Command Sergeant Major, Company/Troop Commander, Company/Troop First Sergeant, Battalion/Squadron Fire Support Officer, and Mortar Platoon Leader/Platoon Sergeant. These OCs will position themselves with any maneuvering or firing element to include the support by fire (SBF), breach, assault and mortars.

2) Target Reference Points (TRPs) for the left and right groups will be put in place and briefed prior to the start of all exercises. TRP's are as follows:

a) PRIOR TO UNDERWOOD ROAD:

- Left TRP is the left barber's pole (range limit marker)
- Middle TRP is the target SA8 (Unit will designate TRP by modifying this target lifter)
- Right TRP is the right barber's pole (range limit marker)

b) BEYOND UNDERWOOD ROAD:

- Left TRP is the left barber's pole (range limit markers at left end M102)
- Middle TRP will be emplace at the left end of M203
- Right TRP is the target SA52 (Unit will designate TRP by modifying this target lifter.

b. Whenever a target passes the limits of a crew's TRP, that crew will cease-fire.

1) In some cases for coax-type targets only, the crews will fire a little outside their TRPs (SEE TARGET LIST for specific instructions). When coax targets are outside the TRP's, Master Gunners will enforce target engagements in accordance with the target list.

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

d. Dismounts will load weapon systems once vehicles are in the first battle positions/ LD. Squad/Platoon leaders will enforce weapon orientation (muzzle toward floor), weapons on safe while dismounts are mounted.

e. All weapons will remain on safe at all time unless soldiers are in the process of engaging a presented threat target.

f. 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 placed on the feed tray.

g. Mortars and Paladin will register their guns prior to all Live-Fire Exercises.

8. 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, dismounts 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. Alternate signal will be star cluster. Contingency will be colored smoke and emergency will be 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 the start of all training exercise.

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

f. While engaging with mortars and paladin, communications between all parties will be maintained. If communications are lost at any given time, the personnel will cease all actions and work to resolve any communication issues before continuing.

9. Medical:

a. Primary means of coverage will be an on-site FLA with 2 medics. A medic with aid bag will walk with each squad during live fires.

b. Cadre will evacuate serious injuries by air or ground by air or ground by calling a 9-line MEDEVAC through the 911 Emergency net. The primary LZ for air evacuation is located west of the BIVOUAC area straight down Tricolor RD, vicinity grid 16S GA 088 891. The primary marking signal for air evacuation is red smoke. Situation dictates, the Master Gunner, OIC and/or RSO will designate an alternate area closer to the fire-line to facilitate the MEDEVAC process. Range Control and headquarters will be notified.

c. The company 1SG will go through a MEDEVAC rehearsal with the medics daily. A cadre huddle prior to each iteration will detail the MEDEVAC plan.

d. Routine and non-life threatening injuries will use the ground FLA for MEDEVAC. The Routes to the Hospital will be briefed to all personnel prior to the start of the training exercise.

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

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

b. All weapons will be discharged downrange and within the designated limits.

- c. All weapons will remain on safe unless actively engaging a target
- d. All soldiers must practice muzzle awareness and aim their weapon on a target they intend to shoot.
- e. If the squad does not safely complete a blank fire iteration they will be retrained on the task and will fire another blank fire in order to shoot the live fire.
- f. All soldiers will conduct a five-point safety check prior to moving from one position to the next. The five-point safety check consists of the following
 - 1) Place the weapon on safe
 - 2) Close dust cover / ejection port cover
 - 3) Identify next covered and concealed position
 - 4) Look left
 - 5) Look right
- g. Soldiers will not engage target lifting boxes after they have fallen
- h. Soldiers will avoid all identified dud areas and report any UXO to Range Cadre if found.

11. Ammunition

- a. The ammo NCO will sign for all blank and live ammunition.
- b. The blank and live ammunition will be in two separate field ASP's. The ASP's will be secured with triple strand concertina wire and 2 guards.
- c. The ASP issues to Soldiers only enough ammunition for one iteration.
- d. Each Soldier will return all unused ammo at the end of their iteration to the ASP.
- e. 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.
- f. There will be an ammunition shake down before and after every iteration.
- g. Delinking and or relinking ammunition is NOT authorized.

h. Weapon/Ammunition Malfunction Reports: When a malfunction is experienced, the OIC or Range Safety Officer will suspend all firing and immediately notify Range Control. Retain the weapons and all components and ammunition involved in place. An investigation is required and will be conducted by DOL.

i. Mortar "hang-fire/ misfire" will be cleared IAW the approved SOP that governs misfire procedures.

j. If in any circumstances a round fired by the Mortar team, 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).

k. If soldiers and/or Range Cadre finds any unexploded ordinance or DUDs, they will immediately contact Range Control and await EOD before the training can resume.

12. When an incident occurs resulting in an injury, an immediate report will be made by the OIC/RSO of the units training to Range Control. 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. Brief summary of what happened

e. Personnel injuries and extent.

f. Full Name, SS#, Rank and unit of injured personnel

g. Extent of property damage

h. Intentions regarding an AR 15-6 investigation.

13. Lasers: Class III lasers are not eye safe on dual low mode within 25 meters. PEM1A is not a tactical laser and must be used within 25 meters. Laser warning signs will be in place prior to opening range. Range safety Briefing will include hazards using Lasers and NVD's.

14. Range Limits/ Misc:

- a. Company Cadre ensures that all weapon systems fire within range limits as specified in the FB 350-19-R.
- b. All Company Cadre will conduct a terrain walk with the OIC prior to the execution of the range to verify understanding of the range limits.
- c. The scenario will be the same for the dry, blank, and live fire for all Section and/or Platoon LFX.
- d. During all CBRN engagements Master Gunners will carefully select targets to mitigate the risk of crews shooting outside the range limits. Crews will also be briefed on their CBRN engagements and will ensure that they do not engage targets unless they have positively identified the target(s).
- e. All leaders and Soldiers will be briefed thoroughly on the phase-lines and checkpoints and will report.
- f. Dismounts will be marked/tracked by the individual tracking units or by phoenix beacons supplied by the unit, so that their location is known.
- g. Disposal/burning of the unused mortar charges will be IAW the MCoE Regulation 350-19 and will be incorporated into the training.

15. Responsibilities:

- a. Battalions will provide necessary range personnel and equipment.
- b. Company Receiving Training conducts PMI and IMT training prior to arrival at range. Firing order for each company will be provided to the Master Gunners at least 1 week prior to the first day of training.

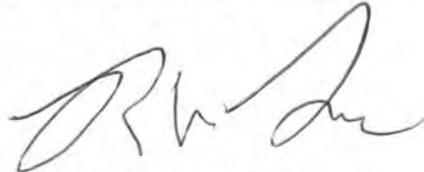
16. Unit will maintain continuous contact with Range Control at all times. If communications are lost the unit will go into a self induced check fire until communications are restored.

17. Communication between the Control Station, OIC and RSO will be maintained with the road guards/ guard posts at all time.

18. MEDEVAC Procedures: Call 911 and determine what type of medical evacuation is the most appropriate for the injury-by land using our designated medial vehicle for the minor injuries, an ambulance for serious injuries or helicopter for critical. **FOLLOW 9 LINE MEDEVAC PROCEDURES** for rotary wing A/C evacuation. Medics will be on site.

~~SUBJECT: DMPRC Bradley TB XII Amendment to Packet Log 8-6-11~~

19. The Unit will ensure that the Range in its entirety is cleared upon completion of the training event.
20. Roadblocks/Road Guards: Road Guard positions, barriers and gates to be closed will be as shown on the Roadblocks/Road Guards enclosure.
21. The Unit will ensure that the Range in its entirety is cleared upon completion of the training event.
22. Roadblocks: Gates to be closed will be as shown on FB Form 350-19-R.
23. POC for this memorandum is the undersigned at (706) 544-4006.



ROBERT W. LANDEG
CPT, EN
Battalion Engineer Officer

- 4 Encls
- 1 Range Sketch
- 2 FB 144
- 3 Risk Assessment
- 4 Minimum Proficiency Level (MPL)

DMPRC, 2-69 AR BN Section/Platoon Gunnery (Log #8-04-12) Tank Target List Enclosure

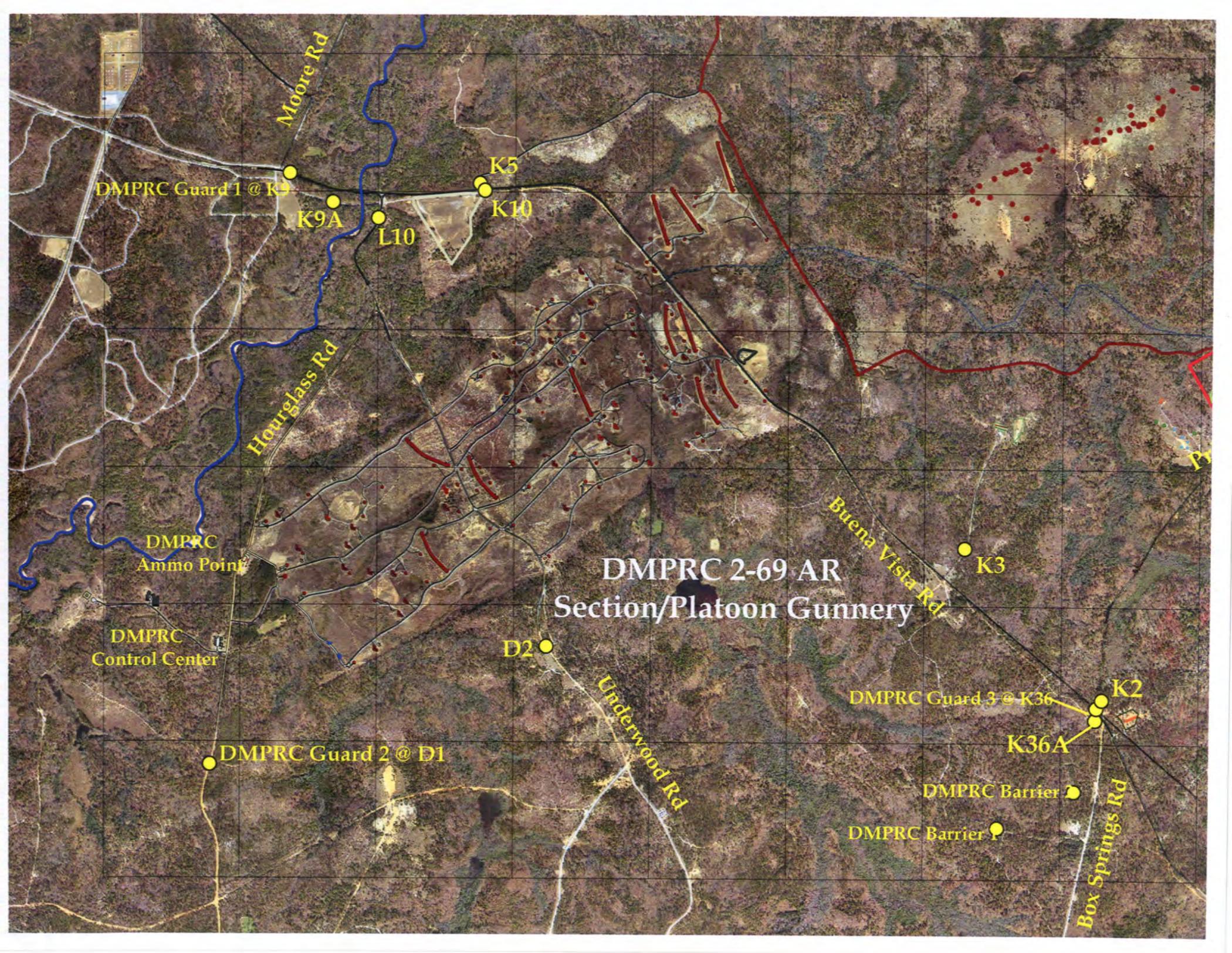
Firing Positions	Weapons	Ammunition	Targets
Engagement 1: MB 1-1	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	SA: 5, 6, 11, 12. M101. SA47, T9 (T9 From Start Only).
Engagement 1: MB 3-1	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	SA: 5, 6, , 11, 12. M101. T: 8, 36.
Engagement 1: MB 4-1	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	SA: 3, 9, 10, 11, 17. M201. SA21, T4.
Engagement 1: MB 5-1	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	SA: 3, 9, 10, 11. M201. T: 5, 6, 11 (T11 From Start Only).
Engagement 2 Left: 1167 9027	M1 Tank M256, M2	120mm M831/M865 , .50 cal Ball/Tracer	SA: 46, 54, 55, 56, 57, 61. M: 102, 103, 104.
Engagement 2 Left: 1168 9016	M1 Tank M256, M2	120mm M831/M865 , .50 cal Ball/Tracer	SA: 46, 54, 55, 56, 57, 61. M: 102, 103, 104.
Engagement 2 Right: 1196 8958	M1 Tank M256, M2	120mm M831/M865 , .50 cal Ball/Tracer	SA: 21, 22, 38, 41, 43, 44, 48, 49, 50, 53, 55, 59, 60. M: 203, 204, 303.
Engagement 2 Right: 1222 8938	M1 Tank M256, M2	120mm M831/M865 , .50 cal Ball/Tracer	SA: 21, 22, 38, 41, 43, 44, 48, 49, 50, 53, 55, 59, 60. M: 203, 204, 303.
Engagement 3: BP 2B	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	SA: 36, 46, 54, 55, 56, 57, 59, 61. M: 102, 103, 104. SA25, T53.
Engagement 3: BP 3B	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	SA: 36, 46, 54, 55, 56, 57, 59, 61. M: 102, 103, 104. T: 16, 29.
Engagement 3: BP 5C	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	SA: 21, 32, 41, 42, 43, 44, 48, 49, 50, 53, 55, 59. M: 203, 204. T: 24, 28, 32, 37.
Engagement 3: BP 6C	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	SA: 21, 32, 41, 42, 43, 44, 48, 49, 50, 53, 55, 59. M: 203, 204. SA22, T: 22, 28, 32, 37.
LOA Left: 1229 9088	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	SA: 36, 46, 54, 55, 56, 57, 59, 61. M: 102, 103, 104. T14.
LOA Left: 1240 9075	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	SA: 36, 46, 54, 55, 56, 57, 59, 61. M: 102, 103, 104. T29.
LOA Right: 1272 9011	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	SA: 21, 38, 41, 42, 43, 44, 49, 50, 53, 55, 59. M: 104, 203, 204, 302, 303. T: 32, 34.
LOA Right: 1279 8996	M1 Tank M256, M2 M240C	120mm M831/M865 , .50 cal Ball/Tracer 7.62mm Ball/Tracer	SA: 21, 41, 43, 44, 49, 50, 55, 59. M: 104, 203, 204, 302, 303. T: 34, 37.

DMPRC, 2-69 AR BN Section/Platoon Gunnery (Log #8-04-12) BFV Target List Enclosure

Firing Positions	Weapons	Ammunition	Targets
Engagement 1: MB 1-1	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	SA: 5, 6, 11, 12. M101. SA47, T9 (T9 From Start Only).
Engagement 1: MB 3-1	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	SA: 5, 6, , 11, 12. M101. T: 8, 36.
Engagement 1: MB 4-1	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	SA: 3, 9, 10, 11, 17. M201. SA21, T4.
Engagement 1: MB 5-1	BFV M242 M240	25mm M793 , M910 7.62mm Ball/Tracer	SA: 3, 9, 10, 11. M201. T: 5, 6, 11 (T11 From Start Only).
Engagement 2: BP 2B	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	SA: 36, 46, 54, 55, 56, 57, 59, 61. M: 102, 103, 104. SA25, T53.
Engagement 2: BP 3B	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	SA: 36, 46, 54, 55, 56, 57, 59, 61. M: 102, 103, 104. T: 16, 29.
Engagement 2: BP 5C	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	SA: 21, 32, 41, 42, 43, 44, 48, 49, 50, 53, 55, 59. M: 203, 204. T: 24, 28, 32, 37.
Engagement 2: BP 6C	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	SA: 21, 32, 41, 42, 43, 44, 48, 49, 50, 53, 55, 59. M: 203, 204. SA22, T: 22, 28, 32, 37.
LOA Left: 1229 9088	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	SA: 36, 46, 54, 55, 56, 57, 59, 61. M: 102, 103, 104. T14.
LOA Left: 1240 9075	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	SA: 36, 46, 54, 55, 56, 57, 59, 61. M: 102, 103, 104. T29.
LOA Right: 1272 9011	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	SA: 21, 38, 41, 42, 43, 44, 49, 50, 53, 55, 59. M: 104, 203, 204, 302, 303. T: 32, 34.
LOA Right: 1279 8996	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	SA: 21, 41, 43, 44, 49, 50, 55, 59. M: 104, 203, 204, 302, 303. T: 34, 37.

DMPRC, 2-69 AR BN Section/Platoon Gunnery (Log #8-04-12) BFV Last OBJ Target List Enclosure

Firing Positions	Weapons	Ammunition	Targets
BP 3D: 1285 9115 & 1291 9112	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	SA: 36, 46, 54, 55, 56, 57, 59, 61. M: 102, 103, 104. T: 33. SA: 36, 46, 54, 56, 57, 61. M: 102, 103.
MB 4-3: 1263 9043 to 1275 9059	BFV M242 M240C	25mm M793 , M910 7.62mm Ball/Tracer	SA: 41, 48. SA: 41, 48.
SBF: 1368 9063	M4, M249	5.56mm Ball/Tracer	Targets on 3rd OBJ & Shift Targets
BFV Overwatch #1: 1341 9081	BFV M240	7.62mm Ball/Tracer	Targets on 3rd OBJ.
BFV Overwatch #2: 1358 9078	BFV M240	7.62mm Ball/Tracer	Targets on 3rd OBJ.
OBJ 3: 1366 9082	M4, M249	5.56mm Ball/Tracer	Targets on 3rd OBJ.



DMPRC 2-69 AR
Section/Platoon Gunnery

DMPRC Guard 1 @ K9

K9A

L10

K5

K10

DMPRC
Ammo Point

DMPRC
Control Center

DMPRC Guard 2 @ D1

D2

Buena Vista Rd

K3

DMPRC Guard 3 @ K36

K36A

K2

DMPRC Barrier

DMPRC Barrier 1

Underwood Rd

Box Springs Rd

Moore Rd

Hourglass Rd

DMPRC 2-69 AR Section/Platoon Gunnery Roadblock List, Log #8-4-12, 17 August 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-3	153 894	Across entrance road leading to Concord OP 250m N. of its intersection with Buena Vista Rd.	Gate				
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
K9	103 921	On Buena Vista Road 50m East of its intersection with Moore Road.	Gate				
K9A	107 919	On Tank Trail approximately 220m East of Upatoi Creek.	Gate				
K10	118 920	Across Buena Vista Rd at K-5 road block.	Gate				
K-16	190 003	Across Rinehart Rd 100m W. of its intersection with Box Springs Rd.	Gate	K-41	192 944	Across Kennesaw Trail 30m W. of its intersection with Box Springs Rd.	Cable
K-28	191 885	Across Whitson Rd 15m W. of its intersection with Cactus Rd.	Cable	K-42	194 956	Across Box Springs Rd 1200m N. of its intersection with Cactus Rd.	Gate
K29	189 888	Across un-named trail on Cactus Range approximately 290m West of Cactus Road.	Gate				
K-30	190 890	Across un-named trail on Cactus Range approximately 370m West of Cactus Road.	Gate	L-10	110 918	North on Hourglass road South of Buena Vista road 175 meters past tank trail.	Gate
K-32	192 915	Across Shamanski Rd 35m W. of its intersection with Cactus Rd.	Gate	D-1	098 878	On Hourglass Road, 700 meters north of 1st Division Road.	Gate
K-36	162 882	Across Buena Vista Rd 50m W. of its intersection with Box Springs Rd.	Gate	D-2	122 887	On Underwood road approximately 900 meters north of Underwood and Plymouth road intersection.	Gate
K36A	163 882	Across tank Trail 35m W. of its intersection with Box Springs Rd.	Gate				

DMPRC 2-69 AR Section/Platoon Gunnery Roadblock List, Log #8-4-12, 17 August 2012

Guard #1	On Buena Vista Road at 103 921 (K9 roadblock) blocking traffic going East on Buena Vista Road.	Guard #3	On Buena Vista Road at 1628 8822 (K36 Roadblock) blocking traffic going North-West on Buena Vista Road.
Guard #2	On Hourglass Road at 098 878 (D1 roadblock) blocking traffic going North on Hourglass Road. OIC will coordinate with Mr Cribb (706-626-2678) to inform Guard to allow limited access to the DMPRC Control Center.		

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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 Roadguards Will Maintain Communications With The OIC at All Times. If Communications Are Lost The Exercise Will Check Fire Through Range Control Unit! All Communications Are Restored.

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

1. MSN/TASK: Section & Platoon LFX (GT VII- XII) on DMPCRC (25MM, 120MM, M240, .50 Cal, MK19, M4)	2a. DTG BEGIN 231200AUG2012	2b. DTG END 221800AUG2013	3. DATE PREPARED (YYYYMMDD) 20120823
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4. PREPARED BY

a. LAST NAME Sutherland	b. RANK 2LT	c. POSITION 2-69 AR Assistant S4, 3HBCT, 3ID
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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?
Movement to/from Ranges	Injury by tripping or falling off a vehicle	M	1. Soldiers will keep alert for tripping hazards i.e. rocks, rough terrain. 2. Soldiers will maintain 3 points of contact while climbing on and off of vehicles. 3. Soldiers will wear (at minimum) the ACH while operating in or on the vehicle.	L	NCOIC/ OIC will give Safety Briefing and Supervise	VC/ Supervisor RSO Individual	
Movement to/ from Ranges	Vehicle collisions	M	1. NCOIC/OIC will identify the hazards during the convoy safety briefing. 2. Use of ground guides when: operating the vehicle off established firing lanes, in close proximity to personnel or other equipment, or when crossing any hardball/ regularly trafficked road. 3. VC (Vehicle Commander) will ensure vehicle separation is maintained at all times. 4. VC will maintain communication with the driver at all times (internal net or visual if ground guiding). 5. Vehicles will maintain minimum distance of 50 meters between each other while on movement during periods of clear visibility.	L	OIC will give convoy brief prior to movement/marches. NCOIC/OIC will give Safety Briefing daily and Supervise.	VC/ Supervisor RSO Individual	

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 Pirog	b. RANK LTC	c. DUTY POSITION 2-69 AR Battalion Commander	d. SIGNATURE 
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Movement to/from Ranges	Soldier hits head or is struck by equipment in crew compartment	M	<ol style="list-style-type: none"> 1.NCOIC/OIC will identify the hazards during the convoy safety briefing 2.VCs will ensure all equipment is properly stowed and secured IAW load plan tie downs 3.VCs will ensure that all soldiers wear seatbelts and ACH or CVC helmet 	L	<ol style="list-style-type: none"> NCOIC/OIC will give Safety Briefing and Supervise 2.Leaders conduct inspection prior to movement 	VC Convoy CDR Individual	
Movement to/from Ranges	Vehicles roll over	M	<ol style="list-style-type: none"> 1. NCOIC/OIC will identify the hazards during the convoy safety briefing. 2. Vehicles will maintain posted speed limits (conditions permitting) and utilize well maintained routes to and from the DMPRC. 3.Vehicles will remain on center lane of tank trail to avoid washout areas and ditches 4. Crews rehearse vehicle roll over daily prior to executing training. 	L	<ol style="list-style-type: none"> NCOIC/OIC will give Safety Briefing and Supervise. VCs will maintain communication with driver and with convoy commander 	VC Convoy CDR Individual	
Movement to/from Ranges	Soldier is hit by vehicle	M	<ol style="list-style-type: none"> 1. NCOIC/OIC will identify the hazards during the convoy safety briefing 2. Ground guides will be used when backing up vehicles 3. Driver will adhere to posted speed limit at all times (conditions permitting); Drivers will reduce speeds in unsatisfactory conditions. 4. Allow enough distance between the vehicle and any pedestrians 5. Vehicles will maintain a minimum distance of 100 meters between each other during periods of limited visibility 6. Turret will remain at the 12 O'clock when passing another vehicle 	L	<ol style="list-style-type: none"> NCOIC/OIC will give Safety Briefing and Supervise. Convoy commander and VCs will assess conditions and control vehicle movement. 	Convoy CDR VC Supervisor Individual	
Movement to/from Ranges	Ramp crushes soldier	L	<ol style="list-style-type: none"> 1.NCOIC/OIC will identify the hazard during the convoy safety briefing 2.Soldiers will be familiar with ramp operations prior to Deploying to the range 3.Ground guides and VCs will ensure that ramps are clear before raising and lowering 4. Crews will utilize the signal horn prior to lowering/raising the ramp. Exception will be granted during execution of the range. 	L	<ol style="list-style-type: none"> NCOIC/OIC will give Safety Briefing and Supervise 	VC Convoy CDR Individual	

Movement to/from Ranges	Soldier crushed by vehicle	M	<p>1.NCOIC/OIC will identify the hazards during the convoy safety briefing</p> <p>2. Soldier will not walk between vehicles while either vehicle is turned on.</p> <p>3. Ground Guides will not cross in front of or behind vehicles while an operator is in the drivers compartment.</p> <p>4.Vehicles will maintain minimum distance of 50 meters between each other while moving during periods of clear visibility and a minimum distance of 100 meters between each other while moving during periods of limited visibility</p>	L	NCOIC/OIC will give Safety Briefing and Supervise	<p>VC</p> <p>Convoy CDR</p> <p>Individual</p>	
Bradley/Tank Gunnery Table XII	Accidental discharge weapon malfunction and misfires	M	<p>OIC / RSO will conduct the following:</p> <p>1. Range Safety Brief: Safety briefing will address possibility of accidental discharge, weapon malfunction and misfire for the chain gun. M240C and 50cal Crow.</p> <p>2. The VC will ensure that weapons are cleared prior to leaving the course IAW MCOE REG 350-19. When all weapons are cleared the VC will report all clear to the tower.</p> <p>The VC will do the following :</p> <p>1. Ensure that if no round was ejected and the weapon is hot that no one opens the cover. The safety lever is pushed to the right which places the weapon on safe keep the weapon pointed down range for 15 min and then clears the weapon.</p> <p>2. During training or on a firing range after the weapon has fired 200 rounds the barrel is considered "HOT" Wait 15 minutes before clearing a hot weapon and applying immediate or remedial action.</p> <p>OIC Will do the following</p> <p>1.Ensure all personnel are weapon system qualified (GST, VCPC, BATS)</p> <p>2. Ensure proper maintenance/services of weapons are conducted and pre fire checklists are being conducted to standard.</p>	L	RSO. OIC will give Safety brief and supervise all training	<p>OIC/RSO</p> <p>NCO supervision</p> <p>Individual</p> <p>VC</p> <p>Gunner</p>	

Bradley/Tank Gunnery Table XII	Soldiers Limb crushed by weapon	M	<p>OIC/RSO will do the following</p> <ol style="list-style-type: none"> 1. Identify the hazards during the safety briefing 2. Turret drive will be off when placing the weapon on manual safe 3. Turret drive will be off when clearing the weapon 4. Combat Overdrive Switch will not be used during training 5. Operator (gunner/CMDR) will visually clear area around turret (on ground and on vehicle) prior to traversing the turret or elevating the gun (while not on firing lanes) 	L	<p>Range Safety Brief</p> <p>Leader involvement</p> <p>Rehearsals</p> <p>Continuous/direct supervision</p>	<p>OIC/RSO</p> <p>NCO supervision</p> <p>VC</p> <p>Individual</p>	
Bradley/Tank Gunnery Table XII	Ammunition detonation	M	<ol style="list-style-type: none"> 1. Range RSO or OIC will cover the possibility that the 25MM gun can double feed when using M910 ammunition. If malfunctions are not properly cleared multiple round initiations may occur 2. To avoid weapon feed malfunctions the following will be enforced: <ol style="list-style-type: none"> a. Ensure that rounds are properly aligned in the links. Ensure M910 rounds that are missing nose caps are removed from the link b. Do not remove serviceable nose caps from M910 rounds c. Malfunctions that cannot be cleared by pushing the misfire button and cycling the gun back to seat must be cleared by removing the feeder and physically inspecting the chamber for unfired ammunition by the VC. d. If the straight drive shaft is dropped for any reason the feeder must be cleared by the VC 	L	<p>Range Safety Brief</p> <p>Leader involvement</p> <p>Rehearsals</p> <p>Continuous/direct supervision</p>	<p>OIC/RSO</p> <p>NCO supervision</p> <p>AMMO NCO</p> <p>VC</p> <p>Gunner/Loader</p>	

Bradley/Tank Gunnery Table XII	Ammunition detonation	M	<p>3. Lap loading of tank ammo will not be allowed. All ammo will be stored on respective storage racks.</p> <p>4. The VC clears all weapon systems MCOE REG. 350-19.</p> <p>5. Ammo will be stored in assigned location on range and covered until used. Ammunition handling and storage will be IAW the Ammunition Handbook (FM 9-19)</p> <p>6. A fire fighting detail will be located at the vicinity of the Ammo Pad.</p>	L	<p>Range Safety Brief</p> <p>Leader involvement</p> <p>Rehearsals</p> <p>Continuous/direct supervision</p>	<p>OIC/RSO</p> <p>NCO supervision</p> <p>AMMO NCO</p> <p>VC</p> <p>Gunner/Loader</p>	
Bradley/Tank Gunnery Table XII	Soldiers bitten or stung by insect or snakes	M	<p>1. NCOIC will identify the hazards during the range safety briefing.</p> <p>2. Soldiers will be advised not to chase or aggravate animals.</p> <p>3. Brief soldiers on the various types of hazards and wildlife. Instruct soldiers not to handle or harass the wildlife.</p> <p>4. Identify soldiers who are allergic to insects and ensure that those soldiers have equipment ready to remedy themselves. (Bee sting kits, ext).</p>	L	<p>RSO/OIC will give safety brief and supervise all training</p>	<p>All Soldiers</p>	
Bradley/Tank Gunnery Table XII	Accidental discharge of vehicle weapon systems	M	<p>1. NCOIC will identify the hazards during the range safety briefing.</p> <p>2. VC's will provide additional instructions and supervision during loading and clearing procedures.</p> <p>3. The VC is responsible for ensuring that all weapons are clear prior to leaving the firing position and range IAW MCOE REG 350-19.</p> <p>4. VC's and gunners will ensure proper maintenance and services of weapons are conducted and will submit the pre-fire check list.</p> <p>5. Pre-fire checklist will be complete prior to Crews drawing ammo.</p> <p>6. All systems bore sighted before firing.</p> <p>7. Vehicle Crews will not load weapon systems until prompted by the tower on the firing line.</p> <p>8. Weapon systems will be cleared by VCs prior to leaving the range</p>	L	<p>RSO/OIC will give safety brief and supervise all training</p>	<p>RSO</p> <p>VC</p> <p>Gunners</p>	

Bradley/Tank Gunnery Table XII	Accidental discharge of vehicle weapon systems	M	9. Weapons will be oriented down range at all times on the firing lanes 10. Crews will engage electrical and manual safeties when not maneuvering on lanes.	L	RSO/OIC will give safety brief and supervise all training	RSO VC Gunnery	
Bradley/Tank Gunnery Table XII	Soldiers injured lifting equipment and ammo	M	1. Identify the hazards. 2. Personnel will work in groups and use proper lifting techniques	L	NCOIC/OIC give safety brief and supervise	Supervisor Individual	
Bradley/Tank Gunnery Table XII	Hatch closes on soldier	M	1. NCOIC will identify the hazard during the daily range briefing 2. All soldiers will be familiar with hatch operation prior to deploying to the range 3. VC's will ensure that hatches have all the required safety pins and that they are operational and in place	L	NCOIC/OIC will give Safety Briefing and supervise	VC Individual	
Bradley/Tank Gunnery Table XII	Heat Casualty Injury	H	1. Soldiers will receive a safety brief daily identifying the heat hazard. Leaders will be encouraged to identify and closely monitor Soldiers who have been heat injuries. 2. Immersion coolers and ice sheets will be present on the range to treat heat any casualties. Crushed/bagged ice will be available twice daily. 3. All Soldiers will wear a hydration source and ensure it remains filled with water. 4. OIC will ensure a filled water buffalo is on site, and parked under shade. Block ice will be delivered with LOGPAC twice daily. OIC will check water level in buffalo prior to each LOGPAC to ensure adequate water is available to support training. 5. Heat Casualties will be treated by the CLS on site and evacuated via EVAC vehicle to MACH. All firing vehicles hatches (accept the driver) will be in the pop up position with the safety locking lever in the locked position (exception: NBC engagements). 6. Soldiers will eat 3 meals each day. 7. Soldiers in the BFV will have water accessible to them at all times while they are waiting to go downrange. As	M	IAW USAIC Regulation 40-14 "Prevention of Heat Injuries" Iced sheets will be used.	RSO/ NCOIC Medics VC Individual	

Bradley/Tank Gunnery Table XII	Heat Casualty Injury	H	<p>crewmembers wait to go down range, the ramp will remain down and the driver's hatch will be open. Each crew will have a minimum of one five gallon jug of water on the back of each BFV.</p> <p>8. The NCOIC of the range will be responsible for verifying that crews are adhering to the guidelines as stated above. When a vehicle is down range the VC will ensure all members on the vehicle are consuming water at all times and report any heat situations to the RSO. Soldiers and crew members waiting to enter the vehicles will stay in the shade and drink water. If the water buffalo is not present there will be additional water stored at a water control point located to the left of the AAR shed.</p> <p>9. Leadership will monitor Soldiers at all times to ensure adequate intake of water.</p> <p>10. Energy drinks are prohibited in training areas. Leaders will inspect Soldier equipment and monitor Soldiers to ensure energy drinks are not brought into training areas.</p>	M	<p>IAW USAIC Regulation 40-14 "Prevention of Heat Injuries"</p> <p>Iced sheets will be used.</p>	<p>RSO/ NCOIC</p> <p>Medics</p> <p>VC</p> <p>Individual</p>	
Bradley/Tank Gunnery Table XII	Loss of hearing	M	<p>1 Soldiers will receive a safety brief identifying noise hazards and the availability of ear protection</p> <p>2. Soldiers will wear hearing protection when firing, or when operating in the vicinity of firing lanes.</p> <p>3. Earplugs will be available at the medic station (covered in safety brief)</p>	L	IAW USAIC Regulation 210-5	<p>RSO/ NCOIC</p> <p>Medics</p> <p>Individual</p>	
Bradley/Tank Gunnery Table XII	CASEVAC/ MEDEVAC to hospital	M	<p>1. OIC will ensure the range book has adequate route diagrams (min: primary and alternate routes) to the MACH.</p> <p>2. Medical teams will be familiar with (completed recon) all MEDEVAC routes.</p> <p>3. The OIC will evacuate all serious injuries. MEDEVAC will be coordinated through the Range Control net. Primary MEDEVAC is ground, alternate is Air. The primary LZ for air evacuation will be designated at each range by medics and a</p>	L	<p>Safety Brief</p> <p>PCC/PCI's/ Rehearsal</p>	<p>OIC/RSO</p> <p>Company 1SG</p> <p>MEDIC</p>	

Bradley/Tank Gunnery Table XII	CASEVAC/ MEDEVAC to hospital	M	10 digit grid provided to BN Staff Duty. The primary marking signal for air evacuation identification signal is red smoke (day) or red chemlight 'buzz-saw' (night) 4. The Company 1SG will go through a daily MEDEVAC rehearsal with the Medics	L	Safety Brief PCC/PCI's/ Rehearsal	OIC/RSO Company 1SG MEDIC	
Bradley/Tank Gunnery Table XII	Loss of eye sight	M	1. All Soldiers will wear ballistic glasses while firing on Range. 2. Any Soldier sustaining an eye injury will be evacuated immediately to higher level medical care.	L	Safety Brief Leader involvement/ leader checks PCC/PCI's Enforce buddy checks	OIC/RSO Safeties NCO supervision Individual MEDIC	
Bradley/Tank Gunnery Table XII	Firing unapproved Ammo on the range	M	1. OIC/NCOIC and the AMMO NCO will cross check the range packet with the 581 to ensure only the approved ammo is present on the range and verify the DODIC matches the firing non-firing data sheet in the range packet. 2. AMMO NCO will open at least one case of every type of ammo to verify contents are correct with the DODAC	L	RSO brief Ammo NCO on the type of ammunition to be fired	RSO/ OIC AMMO NCO Range Safeties Squad Leaders	
Bradley/Tank Gunnery Table XII	Round Fired out of range Fan/Impact Area	H	1. A crew packet including BGST score sheets for all crew members BATS printout and a crew worksheet signed by the crew's company commander will be submitted to the OIC and MG running the range prior to any crew conducting dry or live fire training 2. The range will be proofed by a Master Gunner for each platform (Tank/Bradley) IOT ensure targets can be engaged safely within the range fans. Tables I – VI can be proofed by company Master Gunners. Tables VII – XII must be proofed by BN master gunners. 3. During times of limited visibility and the range camera system is not working, each firing vehicle will be followed by a chase vehicle to assure the firing vehicle maintains proper turret orientation during conduct of the table. The chase VC will be a SSG or above and will have night vision capability. The chase vehicle will have FM	M	OIC will collect crew packets during initial range brief on day one of range. Ammo NCO will be briefed on the responsibility to collect pre-fire checklist and verify presence of crew checks Standard briefed during safety brief by RSO, Beach Master will not advance a vehicle not in compliance.	RSO/OIC MG VC Individual	

Bradley/Tank Gunnery Table XII	Round Fired out of range Fan/Impact Area	H	<p>communication with the tower and the firing vehicle.</p> <p>4. Crews will only engage targets within their sectors of fire. VC will ID the range fan prior to executing the range and report back to the tower.</p> <p>5. Ensure weapons are oriented down range while on the firing lanes.</p>	M	<p>Tower will not begin live fire table during night or limited visibilities without chase vehicle in place and on the firing freq.</p>	<p>RSO/OIC</p> <p>MG</p> <p>VC</p> <p>Individual</p>	
Bradley/Tank Gunnery Table XII	Fire inside crew compartment of BFV	M	<p>1. Crews complete prep to fire checks prior to firing.</p> <p>2. Leaders complete PCIs prior to firing.</p> <p>3. Crews conduct PMCS daily.</p> <p>4. Crews complete rehearsals of crew fire evacuation drills daily prior to firing.</p> <p>5. Loaders follow proper loading procedures.</p> <p>6. Crews wear Nomex or fire resistant uniforms with balaclava, gloves, and spall vest while firing.</p>	L	<p>Safety Brief</p> <p>Fire Drill Rehearsal</p>	<p>OIC/RSO</p> <p>NCO supervision</p> <p>VC</p>	
Bradley/Tank Gunnery Table XII	Environmental Considerations	M	<p>1. Soldiers will be briefed on the location of the latrines.</p> <p>2. The range will be thoroughly policed of all garbage, trash and dunage at all times. Units will conduct a final police call prior to being cleared off the range.</p> <p>3. All vehicles on the range will use drip pans and chock blocks when parked and a POL spill kit will be on site at the maintenance area on the range.</p> <p>4. OIC will verify the location of all red-cockaded woodpeckers clusters prior to conducting training.</p> <p>5. Safety brief will include wildlife considerations, specifically that Soldiers will not engage wildlife with weapon systems.</p>	L	<p>Safety Brief</p> <p>Leader involvement</p> <p>PCC/PCI's</p>	<p>OIC/RSO</p> <p>NCO supervision</p>	

Bradley/Tank Gunnery Table XII	Forest Fire on the Range	M	<p>1. Soldiers will only smoke in designated smoke brake areas.</p> <p>2. Fire danger classes will be monitored by OIC through range control.</p> <p>The OIC will take the following precautions:</p> <p>1. When a fire danger class 4 is reached the use of tracers and incendiary training aids such as flares, simulators, pyrotechnics, smoke grenades, firecrackers and open fires will cease immediately.</p> <p>Blanks may be used. Exception to discharge incendiary ammunition and general pyrotechnics in all areas of the military reservation must be requested through Range Operations Branch by the BN S3. Operations Chief.</p> <p>Exceptions may be granted to that training which is most critical to unit mission.</p> <p>2. When a fire danger class 5 is reached, the use of all incendiary type ammunition will cease immediately. Blanks may be used. Exception to this policy may be granted to enhance the most critical training and must be requested from Range Division by the BN S3. Appoint a noncommissioned officer daily as unit fire marshal to ensure all personnel have been indoctrinated concerning the safe use of incendiary devices and to supervise the immediate suppression of fires.</p> <p>4. The OIC will promptly report any fire and be responsible for suppression of the fire until Land Management Branch personnel arrive at the scene. All personnel and equipment present at the scene of fire will be made available to Land Management Branch personnel for fire suppression purposes.</p> <p>d. Reporting.</p> <p>(1) All range fires will be reported as soon discovery to the following:</p> <p>(a) Range Control, DPTMS, telephone 544-6291/6371 or by radio.</p> <p>(b) Post Fire Department, telephone 911.</p> <p>(c) Land Management Branch, DPW, telephone 544-7081/6206.</p>	L	<p>Safety Brief</p> <p>A Fire Suppression Kit assessable on range with Shovels and Rakes</p> <p>Range Control Radio Monitored</p> <p>Appointed Marshall NCO w/fire suppression detail</p>	<p>RSO/OIC</p> <p>Fire Marshall NCO</p>	
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Bradley/Tank Gunnery Table XII	Forest Fire on the Range	M	(2) Units involved in fighting a fire will submit a written report to the Chief, EMD within 24 hours to include the following: (a) Date and time of fire. (b) Location. (c) Circumstances surrounding the discovery of the fire. (d) Description of actions taken to extinguish the fire. (e) Procedures. In many cases immediate action by units	L	Safety Brief A Fire Suppression Kit assessable on range with Shovels and Rakes Range Control Radio Monitored Appointed Marshall NCO w/fire suppression detail	RSO/OIC Fire Marshall NCO	
Firing Mortar Round	Ammunition Storage and Accountability	M	1. Ammo NCO oversees ammunition download and maintains round count throughout exercise. Also ensures ammunition is stored off the ground on a pallet, at least 50m away from the Mortar Firing Point, and ammo is away from any flammable material, including dry grass. 2. Maintains round count throughout range. At the conclusion of firing, the ammo NCO reports rounds expended to OIC, who reports rounds expended at the completion of training to Range Control and Battalion HQ. 3. Ammo will be guarded throughout the training exercise.	L	Range Safety Brief Leader involvement Rehearsals Continuous/direct supervision	OIC/RSO Safeties Squad Leader	
Firing Mortar Round	Fratricide	H	1. RSO will brief range limits and safety procedures. 2. FDC will have range fans drawn out on map.	M	Safety brief	Safeties FDC Chief	
Firing Mortar Round	Firing Live Rounds	H	1. All crews will have completed gunner exams prior to the MORTEP. 2. Section leaders will PCC/PCI their soldiers prior to arrival at the range. 3. RSO will brief range limits and safety procedures.	M	Prior train up Safety brief On Site Safety Awareness	Safeties Section Leaders Individual	

Firing Mortar Round	Soldiers injured from effects of short rounds	M	<ol style="list-style-type: none"> Misfires will be handled IAW FM23-90. Section safety crew drills will prepare every soldier for this event. Soldiers will execute PMI. All rounds will be inspected before firing before being fired. Proper Tube maintenance will be conducted. 	L	<p>Crew Train Up prior to LFX</p> <p>Copy of Pertinent FMs on site</p>	<p>Safeties</p> <p>Section Leaders</p> <p>Crew Leaders</p>	
Firing Mortar Round	Misfire	M	<ol style="list-style-type: none"> Soldiers will receive a safety brief about terrain. Leaders will designate the appropriate uniform. Soldiers will be familiarized with all mortar equipment before executing training. 	L	<p>Safety Brief</p> <p>Crew Train Up prior to LFX</p>	<p>Safeties</p> <p>Section Leaders</p> <p>Crew Leaders</p> <p>Individual</p>	
Firing Mortar Round	Round fired outside of approved surface danger zone	M	<ol style="list-style-type: none"> Proper call for fire IAW 6-30. Positive ID of all targets prior to engagement using predetermined targets. PL calling for fire will request all fire missions communicating to the BN TOC primarily using the BFT and secondary communication using FM radio. 	L	<p>Safety Brief to Leaders</p>	<p>Safeties</p> <p>Section Leaders</p> <p>Crew Leaders</p>	
Dismounted Squads	Negligent Discharge of Personal Weapon	H	<ol style="list-style-type: none"> 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 be able to receive ammo. Soldiers will not receive ammo until they enter the firing line. All Safeties will ensure weapons are treated as if they are loaded at all times and ensure Soldiers maintain muzzle awareness. All Safeties will ensure all weapons are kept on safe. Weapons will only be on FIRE when the Soldier is prepared to engage a target. Safeties will supervise Soldiers while they are firing to ensure correct weapons posture and orientation. Range OIC and Safety NCO will go to a self imposed Check-Fire during accidents or injuries due to weapons fire. Any Soldier identified as a risk will be immediately removed from training, retrained and reinserted into training. 	M	<p>Safety brief</p> <p>Leader involvement</p> <p>Rehearsals</p> <p>Continuous/direct supervision</p>	<p>OIC/RSO</p> <p>NCO Supervision</p> <p>Range Safeties</p> <p>Individual</p>	

Dismounted Squads	Negligent Discharge of Personal Weapon	M	<p>6. Any Soldier who has a negligent discharge will be removed from training, retrained, and reinserted into training.</p> <p>7. Squad Leaders will visually observe Soldiers perform weapons clearing procedures in accordance with MCOE REG 350-19.</p> <p>8. OIC will ensure medics are on site to perform immediate aid if needed.</p>	L	<p>Safety brief</p> <p>Leader involvement</p> <p>Rehearsals</p> <p>Continuous/direct supervision</p>	<p>OIC/RSO</p> <p>NCO Supervision</p> <p>Range Safeties</p> <p>Individual</p>	
Dismounted Squads	Fratricide	H	<p>1. Safeties will ensure weapons are on safe, and fingers are out of the trigger well unless Soldiers are engaging targets. No Soldier will begin bounding unless his weapon is on SAFE.</p> <p>2. Soldier will conduct dry and blank runs prior to conducting a live fire exercise to ensure Soldiers are proficient in the execution of individual movement techniques (IMT). Correct muzzle orientation, weapons status, and proper bounding techniques will be emphasized during dry and blank runs. Soldiers who do not demonstrate proficiency during training will not proceed to live fire exercise.</p> <p>3. OIC/RSO will provide one Safety for every dismounted Squad. Each Safety will ensure that all Squads are not flagging each other. Forward movement and firing will be halted if any Soldier flags another Soldier. Movement will not continue until both teams are in their proper position. Each Safety will maintain awareness of the position of the dismounted Soldiers and use a hand held radio to communicate with the tower and other Safeties to halt and commence movement.</p> <p>4. Heightened awareness will be maintained throughout live fire exercise and zero tolerance of negligent discharges will be enforced.</p>	M	<p>Range Safety Brief</p> <p>Leader involvement</p> <p>Rehearsals</p> <p>Continuous/direct supervision</p>	<p>OIC/RSO</p> <p>NCO supervision</p> <p>Range Safeties</p> <p>Individual</p>	

Dismounted Squads	Mixing of Blank and Live small arms Ammunition	M	<p>1. OIC/RSO will ensure blank and live ammunition is not intermixed.</p> <p>2. All live and blank ammo on the range will be kept in a separated area separated concertina wire in sight of ammo NCO at all times.</p> <p>3. Ammo points will be under positive control of the ammo NCO.</p> <p>4. Prior to live fire, the RSO will supervise SQD Leaders inspecting their soldiers. SQD Leaders will ensure that Soldiers have turned in all Blank ammunition and all blank adaptors are removed from their weapons.</p> <p>5. All magazines on the range will be controlled by the Ammo NCOIC. All magazines will be marked blank or live. Blank ammunition will only be loaded and fired out of magazines marked blank. Live ammunition will only be loaded and fired out of magazines marked live.</p>	L	<p>Range Safety Brief</p> <p>Leader involvement</p> <p>Rehearsals</p> <p>Continuous/direct supervision</p>	<p>OIC/RSO</p> <p>NCO supervision</p> <p>Range Safeties</p> <p>Ammo NCOIC</p> <p>Individual</p>	
Dismounted Squads	Shooting out of Range fan	M	<p>Soldier will be briefed on their right and left range limits prior to movement to the line.</p>	L	<p>Safety Brief</p> <p>Leader involvement/ leader checks</p> <p>PCC/PCI's</p>	<p>OIC/RSO</p> <p>Safeties</p> <p>NCO supervision</p> <p>Individual</p> <p>MG/OIC</p>	
Bradley/Tank Gunnery XII	2/69 AR Assuming the risk from training outside Units	M	<p>The outside unit's crews will meet all necessary Gates prior to the LFX in accordance with FM 3-20-21 (HBCT).</p>	L	<p>The outside Unit will bring a memorandum signed by their Commander verifying that their crews have met all necessary Gates to the LFX in accordance with FM 3-20-21 (HVCT)</p>		

Dismounted Squads	Firing outside sector limits	M	<p>1. The live-fire of the assaulting-force squad will fire within the sector limits. Range Safety, Squad Leader, and Team Leaders will ensure members of squad do not fire outside the sector limits and engage only the targets within the shoot-house during the assault.</p> <p>2. Target placement within building will ensure Northeasterly direction of fire within sector limits for assault.</p> <p>3. Leadership, Range Safety, and Lane walkers will ensure no soldiers are standing behind hot walls during assault.</p>	L	<p>Safety Brief</p> <p>Continuous/direct supervision</p> <p>Leader Involvement</p> <p>Rehearsals</p>	<p>OIC/RSO</p> <p>NCO supervision</p> <p>Range Safeties</p> <p>VC/ SL</p> <p>Individual</p>	
Bradley/ Tank Gunnery XII	Fratricide from Assaulting BFV on Dismounted Squad	M	<p>1. Leadership, Range Safety, and Lane walkers will ensure no soldiers are standing behind hot walls during assault.</p> <p>2. Assaulting squad leader will ensure ceasefire of assaulting Bradley Vehicles prior to dismounting and assaulting the objective house.</p> <p>3. Platoon Leader and SL will ensure rehearsals and dry run-through prior to live-fire.</p>	L	<p>Safety Brief</p> <p>Continuous/direct supervision</p> <p>Leader Involvement</p> <p>Rehearsals</p>	<p>OIC/RSO</p> <p>NCO supervision</p> <p>Range Safeties</p> <p>Squad Leader</p> <p>Individual</p>	
Dismounted Squads	Fratricide from dismounted SBF	M	<p>1. Support by Fire position will shift fire once assaulting Bradleys reach the designated orange cone at grid GA13449081.</p> <p>2. Support by Fire position will maintain communication and inform Platoon Leader when fire has shifted.</p> <p>3. Initially, the SBF sector limits will be between 350 (left limit) and 62 (right limit) degrees. Once shifted, the left limit will shift to 53 degrees and the right limit will not change.</p> <p>4. At no time will the SBF fire outside of it's given sector.</p> <p>5. Proper muzzle awareness and firearm safety will be maintained at all times.</p>	L	<p>Safety Brief</p> <p>Continuous/direct supervision</p> <p>Leader Involvement</p> <p>Rehearsals</p>	<p>OIC/ RSO</p> <p>NCO supervision</p> <p>Range Safeties</p> <p>Individual</p>	
Dismounted Squads	Weapons discharge inside vehicle	M	<p>1. Weapons posture inside vehicle is amber. M4 will have live-round magazine inserted in M4, but soldiers will not go red until dismounted from the vehicle. M249/ M240 inside vehicles will also be on amber. Once outside the vehicle or at the support by fire position, Soldiers are authorized to go red.</p> <p>2. All weapons inside vehicle will remain on safe. Weapons should only be on fire when prepared to engage target.</p> <p>3. If M249/M240 have hot barrel, ensure no ammunition is loaded or on the feed tray in order to mitigate discharge.</p> <p>4. Ensure proper weapons safety and muzzle awareness in vehicles. Muzzles should be pointed down at all times while in vehicles.</p>	L	<p>Safety Brief</p> <p>Leader Involvement</p> <p>Direct/ continuous supervision</p>	<p>OIC/ RSO</p> <p>NCO supervision</p> <p>VC/ SL</p> <p>Individual</p>	

Risk Assessment Matrix

		HAZARD PROBABILITY					
		FREQUENT	LIKELY	OCCASIONAL	SELDOM	UNLIKELY	
		A	B	C	D	E	
S E V E R I T Y	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

Additional Safety Notes For DMPRC 2-69 AR Section/Platoon Gunnery Log 8-04-12

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 place prior to opening the range. **Range safety briefing will include hazards using Lasers and NVD's.**

Communications: 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.

Incident: When an incident occurs on the range, regardless of injury or not, the OIC/RSO will immediately call a cease fire and report it to Range 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.

Medical: In the event of an accident, injury or illness, the OIC/RSO will immediately call a cease fire then call 911 using the standard 9 Line MEDEVAC to determine what type of evacuation is the most appropriate for the injury (loss of life, limb or eyesight). MEDEVAC will be IAW MCoE Regulation 350-19 and 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.

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

Weapons/Ammunition Malfunction Reports: 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.



RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



Date Submitted: 8/17/2012

EMD Number: 1223002

Project#: Unknown

Project Title: TANK, BRADLEY, and WHEELED GUNNERY

Description of proposed action:

TANK, BRADLEY, AND WHEELED GUNNERY WILL BE CONDUCTED ON CARAMOUCHE AND DMPC RANGES ALONG WITH SUPPORT OPERATIONS OFF-RANGE. D-01, ROWAN HILL, AND O-09 WILL BE USED AS STAGING AREAS FOR EXCESS PERSONNEL AND VEHICLES. Other information to be added/edited is attached and specified in BOLD. In that attachment, additional land is specified intent, AMMO, and understanding of training. (See attachment for additional information)

Project Location:

CARAMOUCHE RANGE, DIGITAL MULTI-PURPOSE RANGE COMPLEX (DMPC), D01, ROWAN HILL, O09

Amount, Description, Location of Disturbance/Digging:

None

Number of Personnel:

300

Type of Ammunition:

120MM, 25MM, .50 CALIBER, 40MM, 7.62MM, 5.56MM Live and Blank

Number/Types of Trees:

None

Size of Project Area: 10KilometersKilometers

Duration of Action: Start: 10/1/2012 Stop: 9/30/2013

Proponent: charles.labare

706-544-4006

Organization/Unit: 2/69 AR, 3 BDE, 3 ID

Number/Types of Vehicles:

Number of vehicles: 32 M1A2 ABRAMS TANK

Number of vehicles: 32 M2 BRADLEYS

Number of vehicles: 20 HMMWVS

Number of vehicles: 8 M113

Number of vehicles: 3 M88

Yes-Vehicles will be going off road.

What type of vehicles will be going off road: M1A2 ABRAMS, M2 BRADLEYS, HMMWVS, M113

DECISION: Concur with conditions

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

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

REC APPROVED THROUGH 30 SEPTEMBER, 2013

Natural Resources RCW - BRAC Conditions:

Jonathan Neufeldt (706 544 7705), 8/27/2012

Based on possible locations of training (see attached PPT file from proponent named ENVIRONMENTAL INFO), the RCW cluster located in F05 will be the cluster that is most vulnerable to disturbance. Unit/units must adhere to training restrictions related to training in or near RCW clusters/cavity trees or within RCW foraging partition. Read attachments 144R EMD Number 1223002 Tank-Bradley FTX, F05 RCWs 2011, RCW-Training Restrictions 1996 Guidelines and EMD Number 1223002 Tank-Bradley FTX RCW Cluster Compartment Map. Contact Jonathan Neufeldt (706-544-7705) for questions.

EMD Number: 1223002

JO# Unknown

Project Title: TANK, BRADLEY, and WHEELED GUNNERY

Cultural Resources - Archeological **Conditions:** Edward Howard (706 545 1898), 8/23/2012

See attached JPEG maps for reference. 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. Re-submittal is required if submitted project is modified in any way.

Watershed Management **None** Hugh Westbury (706 545 7882), 8/22/2012

Hazardous Materials/Waste **Conditions:** Ted Williams (706 545 7579), 8/21/2012

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.

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. 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.

Rubbish, empty containers and other waste (including used smoke/C2 canisters) should be removed from the training area after the training is completed. 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.

CWA - Training **Conditions:** Jessica Taylor (706-604-4572), 8/20/2012

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 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/dischage -- 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 - TES F and W **Conditions:** Brent Widener (706 544 7516), 8/17/2012

No vehicular activity permitted on planted wildlife openings in D01 and DMPC off of tricolor Rd. on East side of Hourglass.

EMD Number: 1223002

IJO# Unknown

Project Title: TANK, BRADLEY, and WHEELED GUNNERY

Natural Resources - Wetlands

Conditions:

Gary Hollon (706 544 7070), 8/17/2012

If there are any impacts to wetlands or streams a USACE wetland permit will be required. Contact the POC if there are any questions.

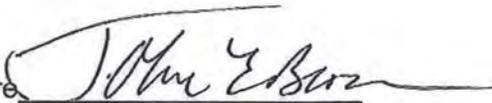
Noise

Conditions:

Ellis Leeder (706 545 2400), 8/17/2012

This is training operations that must be conducted. 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

Signature



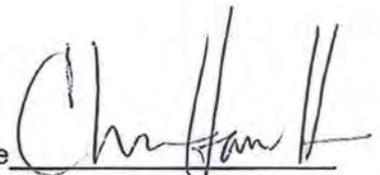
John E Brown

NEPA Program Manager

Date

28 AUG 2012

Signature



Christopher E. Hamilton, PhD

Date

28 Aug 12

EPMB Chief

FIELD TRAINING EXERCISES AND DEPLOYMENT
GENERAL SPCC CHECKLIST
Figure 6.9.1

Units should continually keep HM/HW areas clean and orderly by applying the principals of Monitoring and Housekeeping. Vehicle Maintenance and Fueling Points, HW Collection Points and HM Storage & Supply Areas may not be set up at your field training area and/or deployment destination.

BEFORE you deploy, plan to pack drip pans, rags, plastic, dry sweep, absorbent, and pallets to prevent drips, spills, and leaks from seeping into the ground and contaminating soil and water resources.

Plan to build your areas to prevent HM accidents before they occur. An easy way to remember what to check, is to remember your CHECK list:

Containment:

- ___ Ensure that secondary containment is used and in good condition.
- ___ Empty water within secondary containment on a regular basis. If water is contaminated, dispose of it IAW the Unit Hazardous Waste Management Plan.

HM/HW locations:

- ___ Make sure the locations of your HM/HW are well chosen. Stay away from waterways, drainage, sensitive areas, living areas, bunkers, ammunition storage, fence lines and/or dining facilities. Place them near the areas where hazardous materials are used.
- ___ Put up warning signs and keep them clean and orderly.

Environmental Documentation:

- ___ Maintain MSDSs for each hazardous material and update Unit/Activity SOPs and Spill Response Plans regularly.

Containers:

- ___ Check condition of containers and keep containers of incompatible materials in proper order.

Kits:

- ___ Place Spill Kits, First Aid Kits, and Emergency Response Kits in the vicinity of the HM/HW areas.
- ___ Spill Kits should also be available on vehicles transporting hazardous material/waste.

SPILL RESPONSE RECORD

PHASE I - IMMEDIATE ACTIONS FOR EVALUATING AND REPORTING SPILLS:

IMMEDIATELY REPORT ALL SPILLS TO YOUR SUPERVISOR AND CALL 911

BE PREPARED TO PROVIDE THE FOLLOWING INFORMATION TO 911 OPERATOR:

During Duty Hours also Call Mr. Felix Soda, EPMB Spill Manager at 545-9879

1. DATE/TIME OF SPILL: _____
 2. LOCATION: _____
 3. MATERIAL SPILLED (include NSN and ingredients, if able): _____
 4. HAZARD: FLAMMABLE _____ TOXIC _____ CORROSIVE _____
OXIDIZER _____ REACTIVE _____ UNKNOWN _____
OTHER (specify) _____
 5. CAUSE OF SPILL: _____
 6. DESCRIPTION OF SPILL QUANTITY, SIZE AND TYPE OF AREA AFFECTED:
 - a. Quantity Released and Size of Spill Area: _____
 - b. Soil: _____
 - c. Pavement: _____
 - d. Vegetation: _____
 - e. Storm or Sewer Drain: _____
 - f. Name of Body of Water (River, Creek, Pond, Lake, Drainage Ditch): _____
 7. HAS RELEASE BEEN STOPPED? _____
 8. HAS RELEASE BEEN CONTAINED? _____
 9. DID RELEASE CROSS INSTALLATION BOUNDARIES? (IF YES, DESCRIBE LOCATION) _____
 10. TYPE AND EXTENT OF INJURIES, IF ANY: _____
- ___ Provide a copy of this form to DPW EPMB Spill Program Manager or FAX to 545-4209
- PHASE II - POST-SPILL RESPONSE AND CLEAN UP ACTIONS:**
11. DESCRIBE CLEAN-UP METHOD AND CONTAINMENT PROCEDURES: _____
 12. NAME OF CONTRACTOR INVOLVED IN CLEAN-UP: _____
 13. ESTIMATED AMOUNT OF SPILL RESIDUE AND CONTAMINATED MATERIAL REMOVED: _____

FORT BENNING ENVIRONMENTAL REGULATIONS SUMMARY

RED-COCKADED WOODPECKER (RCW): Cavity trees are identified by two white bands. Cluster boundaries extend 200 feet around each cavity tree, and are delineated by diamond-shaped signs. **WITHIN a cluster:**

- Personnel MAY NOT stay for more than 2 hours; NO BIVOUACS.
- The only digging allowed is BY HAND for hasty defense light infantry fighting positions. ALL other digging is prohibited.
- Within one half mile of a cluster, NO MECHANICAL DIGGING may be done within 20 feet of any mature pine tree (8 inch diameter or greater).
- Off-road vehicles MAY NOT come within 50' of any cavity tree.
- Use only .50cal and 7.62mm (or smaller) blank ammo; NO LIVE FIRE.
- CS gas, HC smoke, and noise generators MAY NOT be used.
- Incendiary devices (including trip flares) MAY NOT be used.
- Only hardwood may be cut for camouflage; CUT NO PINE.

GOPHER TORTOISE: Inhabits burrows in high sandy areas. Some burrows are marked by white 1" PVC pipe topped with reflective tape. Digging and vehicular traffic must be kept more than 50 feet away from burrows.

----- CUT HERE -----

ENVIRONMENTAL INCIDENT REPORT FORM

For your protection, company commanders are asked to document any environmental incidents by completing this card and forwarding it to the Chief, Environmental Management Division, Building 6, Room 307, or call 545-2180, within 24 hours of incident. Check off incident and take corrective actions.

- ___ bivouacking in RCW cluster (Relocate bivouac site.)
- ___ off-road driving / parking within 50' of RCW cavity tree (Relocate.)
- ___ digging in RCW cluster [except individual hasty fighting positions] (Refill holes.)
- ___ scarring or felling of trees in RCW cluster (Contact EMD Conservation Branch through Range Control.)
- ___ digging or driving in Sensitive Area (Relocate, DO NOT refill holes.)
- ___ wildfire started (Begin suppression and contact Range Control.)
- ___ POL spill greater than 20 gallons on land or any quantity on water (Immediately contact Range Control and begin spill control - REACT.)
- ___ POL spill less than 20 gallons on land (Begin spill control - REACT; contact Range Control and submit a Spill Report Form to EMD within 24 hours.)

FORT BENNING ENVIRONMENTAL REGULATIONS SUMMARY

SENSITIVE AREAS: Endangered species habitat or cultural resources. They are marked with steel pickets and white signs. Digging and vehicular traffic is prohibited.

POL/HAZMAT SPILLS: Report all spills through Range Control at 545-3474. If assistance is required from the Fire Department/HAZMAT Team, Range Control will make notifications through E-911. For POL spills greater than 20 gallons on land or any quantity on surface water, the Environmental Management Division (EMD) must be immediately notified through E-911 or 545-9879/4203. For POL spills less than 20 gallons on land, a Spill Report Form must be submitted within 24 hours to the EMD (Call 545-9879 and/or FAX 545-4209). After hours call the spill pager at 317-6584.

Unit should begin spill control measurements (REACT) within their capabilities. If a spill occurs within a sensitive area; stop the source, contain, and absorb the spill material - do not dig until EMD personnel arrive at the site.

Be prepared to report:

- Time, grid location, and cause of spill.
- Type of product and amount spilled.
- Distance from flowing water.
- Action taken to combat spill.

See USAIC 210-4, Range and Terrain Regulations, for more detail.

ENVIRONMENTAL INCIDENT REPORT FORM

Unit: _____

OIC/NCOIC: _____

Training Area: _____

Grid Coordinates: _____

Date and Name: _____

Signature: _____

FB (DPW) Form 31, 1 May 2004 PREVIOUS EDITION OBSOLETE

RECORD OF ENVIRONMENTAL CONSIDERATION (FB FORM 144R)

EMD NUMBER: 1223002

PROJECT TITLE: TANK/BRADLEY FTX

1. Conservation Branch (CB) personnel may inspect for environmental violations. Changes to any aspect of the training exercise will require submission of a new 144R. Unit should not conduct any type of activity that will result in the death or injury of pine trees that are 10 inches diameter or greater, this includes demolition, cutting, etc; off-road vehicles should not damage any such trees. Unit must not cut any pine trees for any use such as firewood, barricades, support structures, camouflage, etc. Failure to adhere to these conditions may result in disapproval of future 144Rs.

2. Backfill all fighting positions before leaving the training area.

3. There are gopher tortoises in the area. Some burrows have been marked by a white PVC pipe or pink engineer's flags. Digging and all vehicles must be kept at least 50 feet away from gopher tortoise burrows, whether burrows are marked or unmarked. See attached sheet for more information regarding the gopher tortoise. There are sensitive areas that are marked with sensitive area signs. There is no digging or vehicle movement allowed in these areas.

4. There is 1 red-cockaded woodpecker (RCW) cluster located in training compartment F02 at center point GL 16020-84390. There is 1 RCW cluster located in training compartment F05 at center point GL 16386-86849. Two white bands mark cavity (nest) trees. The cluster boundaries extend approximately 200 feet from the cavity trees and are marked by signs indicating the area is an RCW cluster.

a. **The following activities are allowed for up to two hours within cluster boundaries:** Hasty defense-light infantry-hand digging, foot traffic, wheeled-vehicle traffic (must stay 50 feet from marked trees), vehicle maintenance, firing blanks (7.62mm or smaller), artillery/hand grenade simulators, Hoffman type devices, smoke/haze operations-generators or pots (smoke can drift into, but source must be outside boundary), star cluster/parachute flare, cutting of hardwoods for camouflage (do not cut any pines).

b. **The following activities are not allowed in the cluster boundary:** No other digging, establishment of command post, assembly area operations, established CS/CSS sites, live fire, noise generators, incendiary devices (including trip flares), CS/Riot gas, HC smoke, tank ditches, deliberate individual fighting positions, crew served fighting positions, vehicle fighting positions, force reduction positions, vehicle survivability postings.

c. **The following activity is not allowed within 1/2 mile of a cluster:** No mechanical digging within 20 feet of a mature pine tree (10 inches diameter at breast height or greater).

5. Report all wildfires to Range Control ASAP.

Jonathan Neufeldt
Wildlife Biologist
DPW EMD Conservation Branch
IMBE-PWE-C
Building 5891
Fort Benning, GA 31905

e-mail: jonathan.h.neufeldt.civ@mail.mil
office phone: 706-544-7705
mobile phone: 706-442-1422
fax: 706-544-6570/6141

TRAINING ACTIVITY WITHIN 200' BUFFER ZONE

Maneuver and Bivouac:

Hasty defense, Light Infantry, Hand digging only, 2 hrs max	yes
Foot Transit	yes
Wheel/Track 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

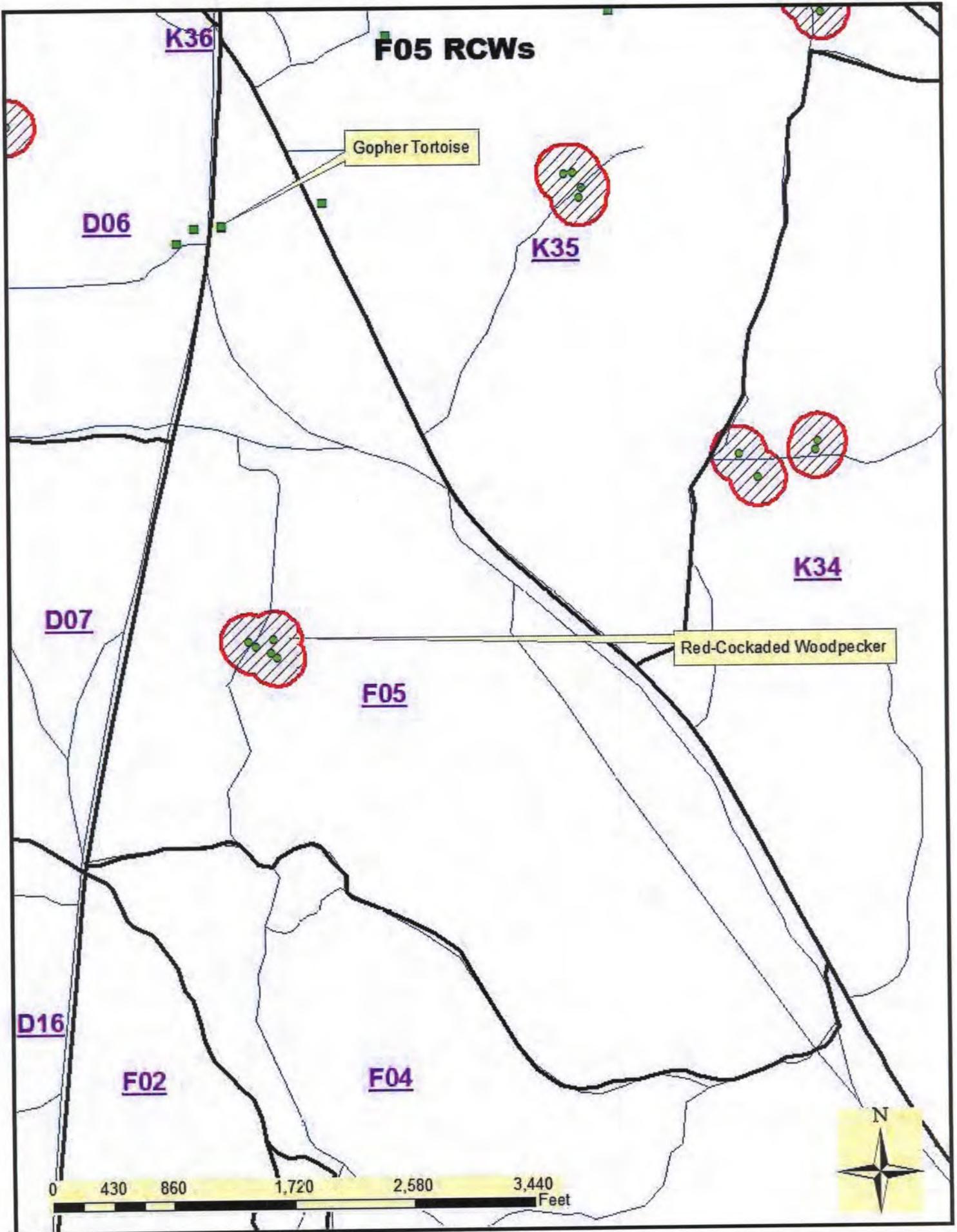


Digging:

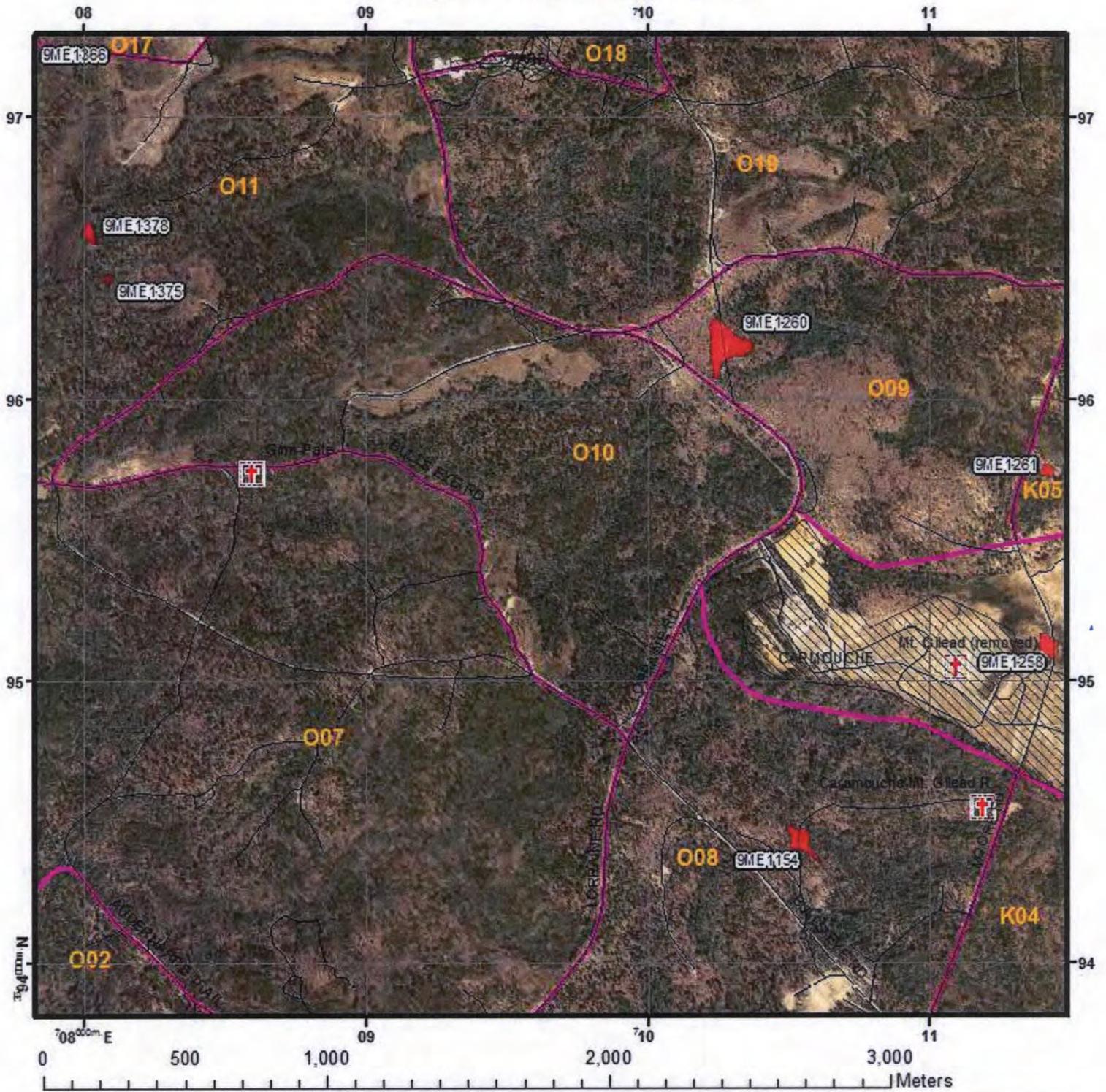
Hasty Individual Fighting Positions, Hand Digging Only	yes
Tank Ditches	no
Deliberate Individual Fighting Positions	no
Crew-served Weapons Fighting Positions	no
Vehicle Fighting Positions	no
other survivability/Force Reduction positions	no
Vehicle Survivability Postings	no

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

- (1) Vehicles (wheel and track) will not get closer than 50 feet of a marked cavity tree unless on an existing road or trail
- (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



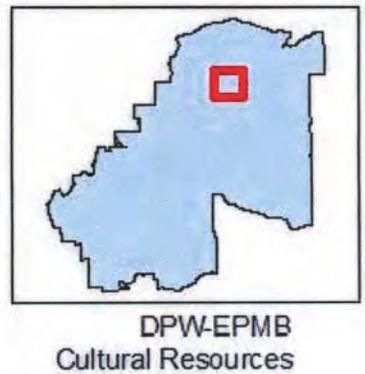
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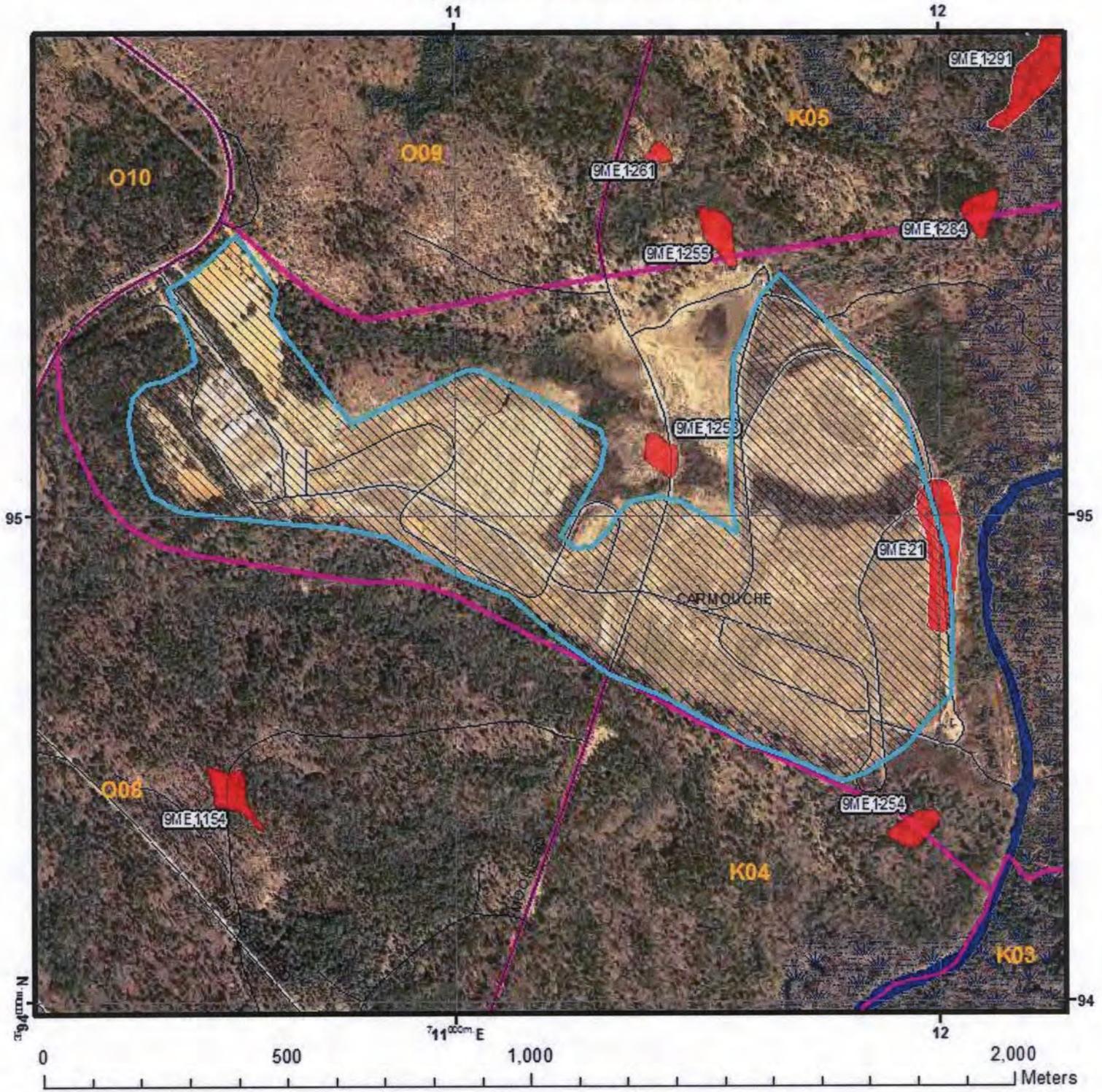


- Historic_buildings STATUS**
- Historic
 - Not Evaluated
 - Not Eligible
 - Not Historic
 - Demolished
 - Prgm Cmt
 - Prgm Cmt/FRL

Historic Districts

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





Historic_buildings STATUS

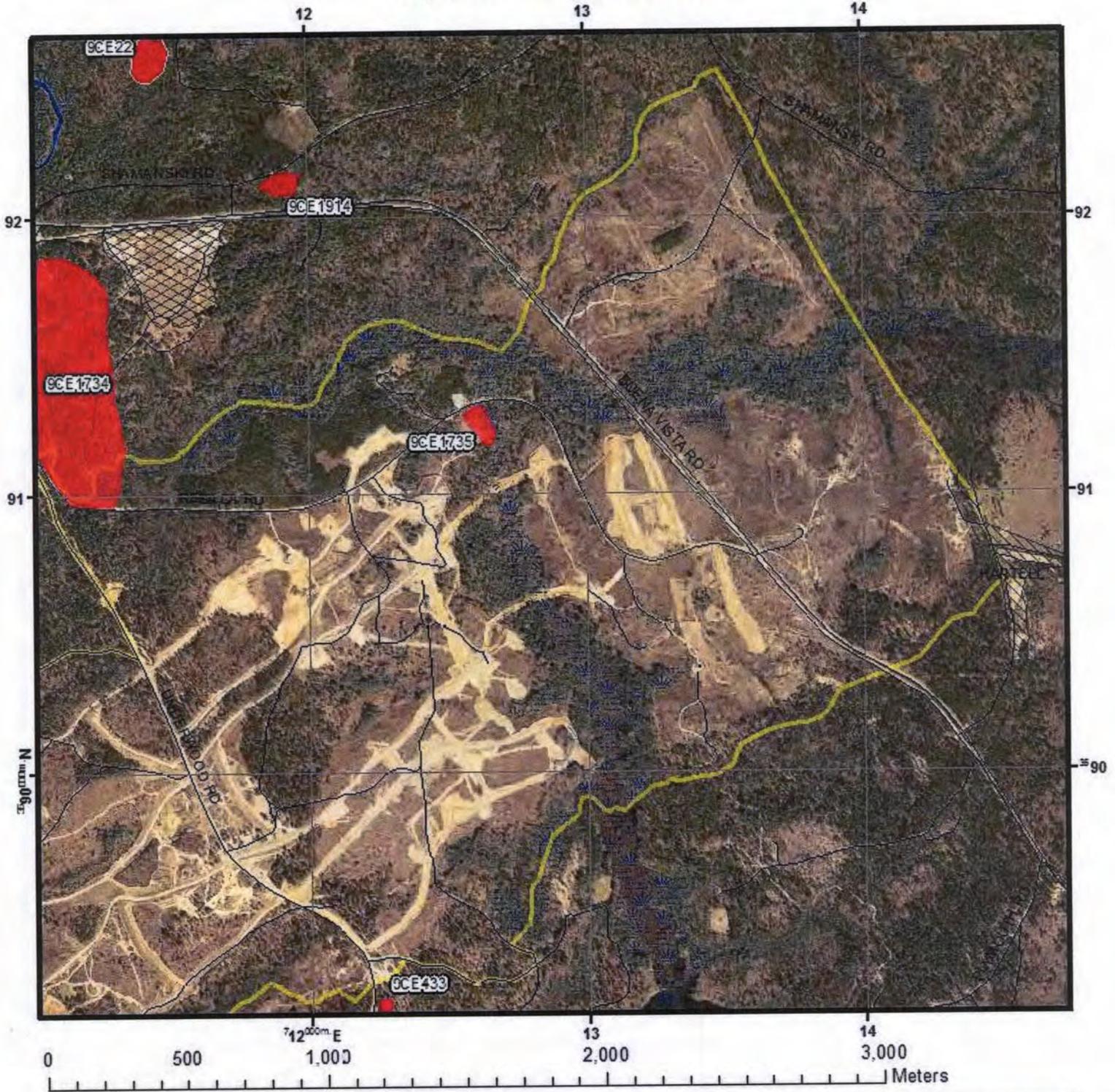
- Historic
- Historic/FRL
- Not Evaluated
- Not Eligible
- Not Historic
- Demolished
- Moved to New NIM
- Prgm Cmt
- Prgm Cmt/FRL

Historic Districts Name

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



DPW-EPMB
 Cultural Resources



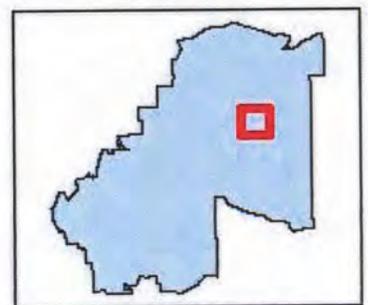
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- Moved to New NIM
- Prgm Cmt
- Prgm Cmt/FRL

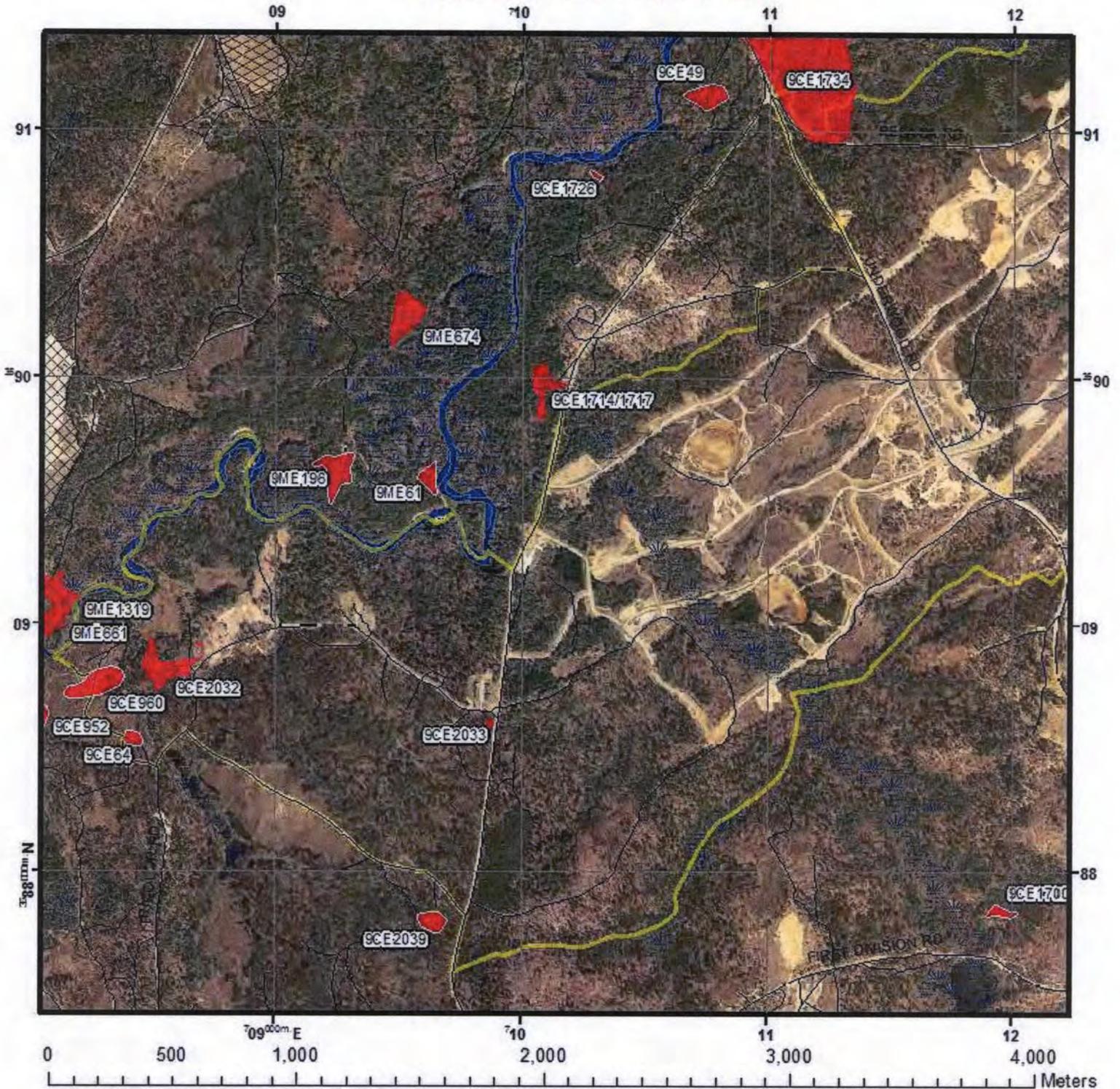
Historic Districts

Name

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



DPW-EPMB
Cultural Resources



Historic_bldgs STATUS

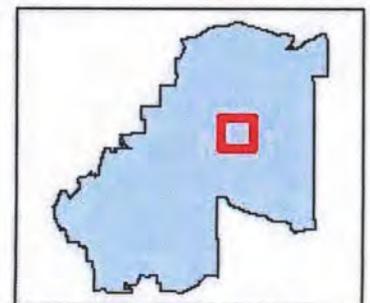
- Historic
- Historic/FRL
- Not Evaluated
- Not Eligible
- Not Historic
- Demolished
- Moved to New NIM
- Prgm Cmt
- Prgm Cmt/FRL

Historic Districts

Name

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

N



DPW-EPMB
Cultural Resources

Example Unit/Activity SOP for Training and Deployment

Introduction

This SOP is divided into two main sections: PREVENTION & RESPONSE. The following sections will assist you in planning your environmental activities while bedding down, initiating, sustaining and conducting field exercises, and/or during deployment. Before you deploy, ensure you are familiar with the following:

What Are Hazardous Materials and Hazardous Wastes

Hazardous Materials are defined as any material that may be a health or physical hazard, or any material that, based on either chemical or physical characteristics, is capable of posing a risk to human health or the environment if improperly disposed of, handled, stored, or transported. Chemical and physical characteristics that may pose a risk to human health or the environment include, but not limited to, one of the following characteristics: Ignitable; Corrosive; Reactive and/or Toxic.

Hazardous Waste: is defined as any discarded material (solid, liquid or gas) that:

1. Has no further value and cannot be reused or recycled;
2. Is harmful to human health or the environment due to its quantity, concentration, biological, chemical or physical characteristics; and/or
3. Exhibits one or more of the characteristics as described for Hazardous Material.

Contaminated or unusable fuel is a typical hazardous material/hazardous waste common to training and deployment operations and should be handled, stored, and disposed of properly.

Ten of the most common hazardous materials/hazardous wastes that you will encounter during training and or deployment operations include:

- Fuel
- Engine Oil
- Bleach or DS-2
- Solvent
- Anti-Freeze
- Transmission Fluid
- Used Oil Filters or Batteries
- Empty POL Containers
- Brake Fluid
- Grease.

These materials should be handled, stored and disposed of properly.

SPILL KITS: Spill kits should be maintained in and around all locations where hazardous materials/hazardous wastes are stored, handled, or disposed. Various types of kits may be ordered through the U.S. Army Supply System and include: rubber gloves, safety goggles, putty, rubber mallet, wooden plugs, absorbent booms, absorbent pads, plastic bags, and in some cases, a disposal barrel.

SPILL PREPARATION: Despite the best prevention, you may run into difficulties and an accident may occur when you least expect it. To minimize contamination, hazards to people, and environmental damage, you must REACT immediately. To help you prepare, this SOP will tell you:

- **HOW to PLAN** and be ready to respond to a problem;
- **HOW to REACT** to a minor, intermediate or major spill; and
- **WHAT** to do after a spill occurs.

Planning

MINOR SPILLS

- When on the move, keep some plastic bags in your vehicle, and have your assigned On-Vehicle Equipment (OVE) ready for use.
- Maintain supplies, rags, absorbent pads, or other kinds of materials that will soak up spills on hard surfaces (like Dry Sweep), or know where you can easily obtain them.
- Keep Personal Protective Equipment (PPE) accessible (gloves, goggles, etc.).

INTERMEDIATE & MAJOR SPILLS

In addition to the procedures above:

- Know where to go for help.
- Know where spill kits are kept and learn how to use them.

Prevention

Vehicle Maintenance and Fueling Points, Hazardous Waste Collection Points and hazardous material Storage & Supply Areas may not be set up at your deployment destination. So PLAN to build your areas to prevent hazardous material accidents before they occur. Remember the following:

HAZARDOUS MATERIAL/HAZARDOUS WASTE AREA LOCATION - Locate hazardous material/hazardous waste areas away from living areas, bunkers, ammunition storage, fence lines and/or dining facilities. Place them near the areas where hazardous material are used.

MATERIAL SAFETY DATA SHEET (MSDS) - Keep MSDSs for each hazardous material stored or collected at hazardous material/hazardous waste areas.

UNIT/ACTIVITY ENVIRONMENTAL SOP & SPILL RESPONSE PLAN - Place SOP and Spill Response Plan at each hazardous material/hazardous waste area.

COMPATIBILITY OF MATERIALS - Store and/or dispose of each class of hazardous material/hazardous waste separately. MSDSs describe the classification of HMs. Four common classification include the following: Flammable (fuels), Corrosives (acids), Reactive (explosives), and Toxic (insecticides).

BEFORE you deploy, plan to pack drip pans, rags, plastic, Dry Sweep, absorbent, and spill pallets to prevent drips, spills, and leaks from seeping into the ground and contaminating soil and water resources.

SECONDARY CONTAINMENT - All liquid hazardous material/hazardous waste must have secondary containment. In order for it to be effective it must:

1. Hold 10% of the total hazardous material/hazardous waste stored or 100% of the largest container.
2. Have sand and/or pallets placed in certain areas to protect the liner.
3. Have overhead cover.

You should continually keep your hazardous material/hazardous waste areas clean and orderly by applying the principals of Monitoring and Housekeeping. An easy way to remember what to check, is

to remember your **CHECK** list:

Containment:

___ Ensure that secondary containment is used and in good condition.

___ Empty water within secondary containment on a regular basis and dispose of it as hazardous waste at the Hazardous Waste Collection Point.

Hazardous Material/Hazardous Waste locations:

___ Make sure the locations of your hazardous material/ **hazardous waste** are well chosen.

___ Put up warning signs and keep them clean and orderly.

Environmental Documentation:

___ **Maintain MSDSs for each hazardous material and update Unit/Activity SOPs and Spill Response Plans regularly.**

Containers:

___ Check condition of containers and keep containers of incompatible materials in proper order.

Kits:

___ Place Spill Kits, First Aid Kits, and Emergency Response Kits in the vicinity of the hazardous material/hazardous waste areas.

See Appendix D of the ASP for specific CHECKlists for areas such as: Vehicle Fueling & Maintenance Areas; Hazardous Waste Collection Points; and Hazardous Material Supply & Storage Areas.

Response

Be prepared to respond immediately to any spill situation. Keep your Environmental SOP and Spill Response Plan (SRP) readily available at the main hazardous material/hazardous waste areas. The SRP should ensure that the following measures are implemented:

- PERSONAL PROTECTIVE EQUIPMENT (PPE) - At the entrance of every hazardous material/hazardous waste area, keep a supply of PPE to protect hands, eyes, skin, ears, head, feet, and lungs. If you are unsure about which items you need, consult the MSDS for the HMs that you are using.
- MSDS - Make sure that MSDSs are available in order to REACT to spills safely and effectively.
- SPILL STATIONS - Maintain spill response equipment at a station near (not inside of) hazardous material/hazardous waste areas. They should contain: First Aid Kits, Fire Extinguishers, Spill Response Kits, and Emergency PPE.
- TRAINING - Improve your readiness by practicing the SPILL DRILL on a regular basis, and be sure to know the spill reporting process.

Respond to spills, major or minor, immediately in order to eliminate hazards that could cause personal injury and/or environmental damage. If assistance is required, or spill/release is major, immediately call **911** or the **Fort Benning Military Police (MP) Desk**.

In any spill situation:

1. Safety First! -- Protect yourself by using PPE, including goggles, gloves, and suits. THEN...
2. Do the SPILL DRILL -- **REACT**:

REMOVE THE SOURCE: Plug the drip or leak and stop the spill.

ENVELOP THE SPILL: Place absorbent booms around the spill area, or build an earthen dam, when appropriate, around the spill.

ABSORB/ACCUMULATE: Place appropriate absorbent material (Dry Sweep, pads, etc.) on the spill in the middle of the boomed-off area.

CONTAINERIZE THE HAZARDOUS WASTE: Use a shovel to place contaminated materials (including soil, booms, pads or other materials) in a plastic bag or a waste drum.

TRANSMIT A REPORT: If a spill is too large to handle alone, - **REACT** as best you can and get help!

See Appendix D of the ASP for specific **REACT** actions for spills involving:

- **Minor Spills** (20 gallons or less);
- **Intermediate Spills** (from 21-55 gallons); and
- **Major Spills** (more than 55 gallons), or any spill into water, where injuries occurred or where spills occurred off Fort Benning associated property.

In addition:

- Prevent hazardous material from entering storm sewers and waterways;
- Minimize impacts to vegetation and wildlife; and
- Notify proper personnel and maintain record of spill event.

Acronyms are defined in the ASP Table of Content

APPENDIX H

Spill Kits and Response Material Checklists

Summary Spill Kit and Response Material Checklist

Recommended Spill Kits for Unit/Activity Motor Pools, Aircraft Hanger Areas, and all POL Field Sites

Recommended Spill Kits for Fuel Carrying Vehicles

Recommended Spill Kits for Other Military Vehicles

Vehicles Transporting Hazardous Materials other than POL

Summary Spill Kit and Response Material Checklist	
Spill Kits and Response Material	Primary Contents
<p>Spill kits should be maintained in and around all locations where hazardous material and hazardous waste are stored, handled, or disposed.</p> <p>The contents of a spill kit will vary depending on the hazardous materials and their characteristics.</p> <p>Hazardous materials other than POL will require spill kits to meet their specific requirements, (i.e., acid spill kit for Battery Shop that handles lead acid batteries).</p>	<p>Spill kits should include as a minimum:</p> <ul style="list-style-type: none"> ✓ Rubber gloves, ✓ Safety goggles, ✓ Putty, rubber mallet, ✓ Wooden plugs, ✓ Absorbent booms, ✓ Absorbent pads, ✓ Plastic bags, and ✓ In some cases, a disposal barrel.
<p>The Unit/Activity must check the material's MSDS for specific information on PPE and spill supplies.</p>	<p>Units/activities transporting hazardous materials should also plan for having a minimum amount of response materials on hand.</p> <ul style="list-style-type: none"> ✓ Various types of kits can be ordered through the U.S Army Supply System (through the Units supply or S-4 shop); ✓ The Unit/Activity must assess their hazardous material inventory and plan to have enough spill response material to respond to the larger container within their facility and the minimum for any specific hazardous material that require specific spill materials or PPE; and ✓ Whenever the Unit gets to this minimum level, the user should initiate a reorder to the supply NCO or S-4 to maintain the minimum amount on-hand.

Acronyms are defined in the ASP Table of Contents

Recommended Spill Kits for Unit/Activity Motor Pools, Aircraft Hanger Areas, and all POL Field Sites

30-Gallon POL Boom Kit: Absorbs Approx. 40 Gallons
Polyurethane 2 Rolls
55-Gallon POL Kit: Absorbs Approx. 40 Gallons
1 55 Gallon Drum
2 Bags Absorbent
6 Booms 2x10
50 Absorbent Pads
10 Heavy Duty Trash Bags

Recommended Spill Kits for Fuel Carrying Vehicles

It's recommended that all fuel carrying vehicles should have a transportation pack spill kit or equivalent spill equipment on board at all times. The following vehicles are considered to be fuel transporting vehicles: HEMITT M971 2500 gallons, Tanker 5000 gallon, M49C 1200 gallon, Tank and Pump unit 600 gallon.

The following is a list of the minimum level of spill equipment recommended to be on hand in all fuel carrying vehicles, especially if they are traveling within the Installation or in a field exercise.

Drip Pan

30-Gallon POL Kit: Absorbs Approx. 20 Gallons
1 30 Gallon Drum
1 16 pound bag Absorbent
3 Booms 2x10
25 Absorbent Pads ~17x19
5 Heavy Duty Trash Bags
1 Dust Pan

Recommended Spill Kits for Other Military Vehicles

Recommended on Vehicle Equipment (OVE) for small spills (usually from vehicle leaks):

1 drip pan
4-5 absorbent pads
1-2 plastic bags.

Additional Materials or Equipment

For each one of these recommended spill kits, the following should be available:

PPE such as: Goggles and Gloves. (2-3 pairs)
1 Shovel
2 Labels for wastes
1 Spill report
1 Inventory

Vehicles Transporting Hazardous Materials other than POL

- ✓ Transportation of hazardous materials is regulated under the Department of Transportation. Personnel transporting hazardous materials must follow all DOT requirements.
- ✓ As a preventive measure, vehicles transporting small amounts of hazardous materials or waste should have a transportation pack spill kit or equivalent spill equipment on board to REACT in the event of an incident.

- ✓ Hazardous Materials other than POL will require spill kits to meet their specific requirements. The Unit/ Activity should check the MSDS for the materials that they transport and have appropriate amount for those particular materials.

Spill Response Record

PHASE I-IMMEDIATE ACTIONS FOR EVALUATING AND REPORTING SPILLS:

IMMEDIATELY REPORT ALL SPILLS TO YOUR SUPERVISOR AND/OR CALL 911 or the Fort Benning Military Police (MP) Desk

Spill Emergency Response Beeper: (706) 317-6584 – EMD HAZMAT Response Team

****BE PREPARED TO PROVIDE THE FOLLOWING INFORMATION TO THE 911 OPERATOR:**

During Duty Hours also Call Mr. Felix Seda, EMD Spill Manager at (706) 545-9879

1. DATE/TIME OF SPILL: _____ / _____
2. LOCATION: _____
3. MATERIAL SPILLED (include NSN and ingredients, if able): _____

4. HAZARD: FLAMMABLE _____ TOXIC _____ CORROSIVE _____
OXIDIZER _____ REACTIVE _____ UNKNOWN _____
OTHER (Specify) _____
5. CAUSE OF SPILL: _____

6. DESCRIPTION OF SPILL QUANTITY, SIZE AND TYPE OF AREA AFFECTED:
 - a. Quantity Released and Size of Spill Area: _____
 - b. Soil: _____
 - c. Pavement: _____
 - d. Vegetation: _____
 - e. Storm of Sewer Drain: _____
 - f. Name of body of Water (River, Creek, Pond, Lake, Drainage Ditch): _____

7. HAS RELEASE BEEN STOPPED? _____

8. HAS RELEASE BEEN CONTAINED? _____

9. DID RELEASE CROSS INSTALLATION BOUNDARIES: (IF YES, DESCRIBE LOCATION): _____

10. TYPE AND EXTENT OF INJURIES, IF ANY: _____

****Provide a copy of this form to DPW EMD Spill Program Manager or FAX to (706) 545-4209**

PHASE II — POST-SPILL RESPONSE AND CLEAN UP ACTIONS:

11. DESCRIBE CLEAN-UP METHOD AND CONTAINMENT PROCEDURES: _____

12. NAME OF CONTRACTOR INVOLVED IN CLEAN-UP: _____

13. ESTIMATED AMOUNT OF SPILL RESIDUE AND CONTAMINATED MATERIAL REMOVED: _____

14. ESTIMATED COST OF CLEAN-UP: _____

15. CORRECTIVE ACTION TAKEN OR TO BE TAKEN TO PREVENT FUTURE SIMILAR INCIDENTS: _____

16. NAME AND PHONE NUMBER OF PERSONNEL REPORTING SPILL: _____

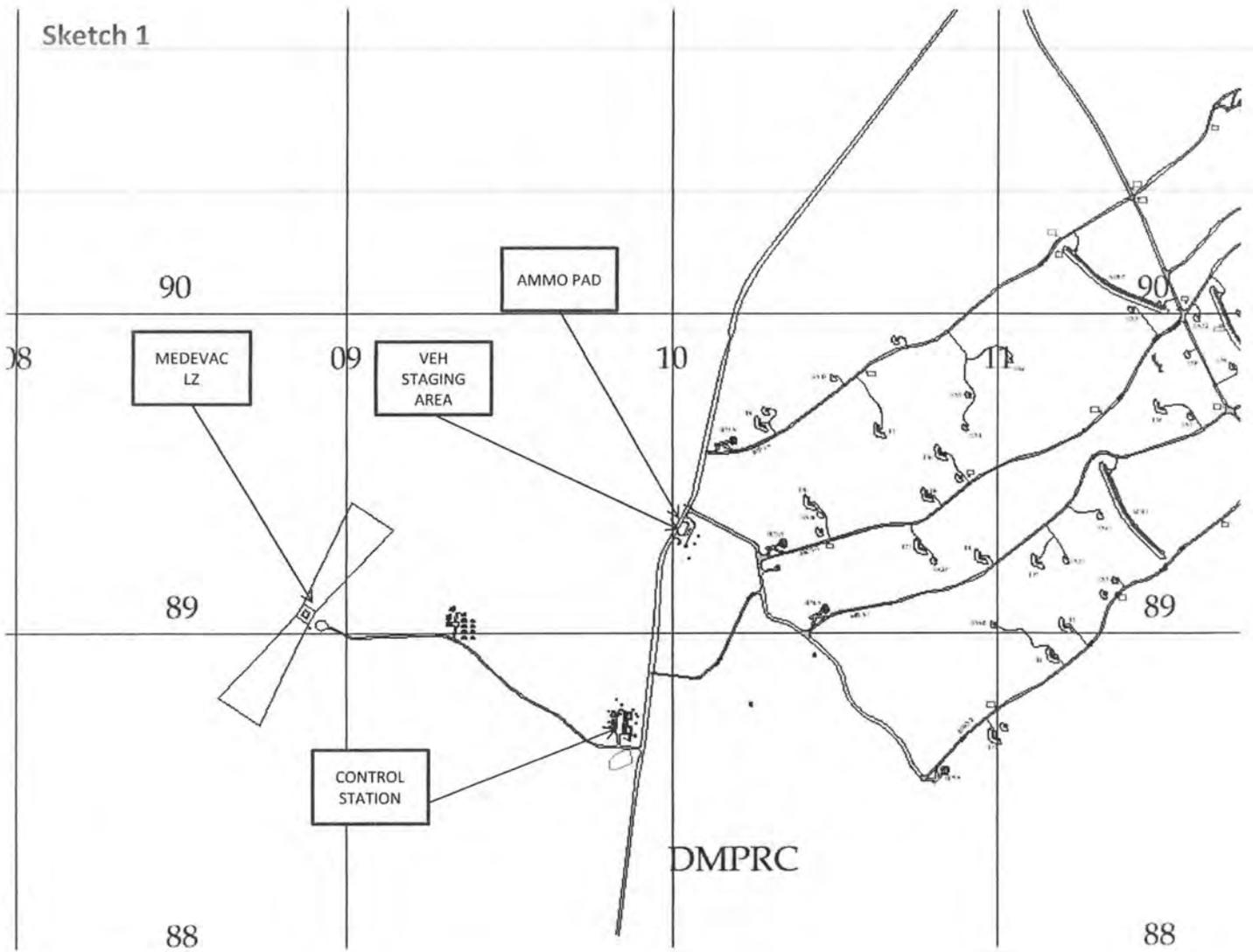
****KEEP THIS FORM FOR A MINIMUM OF 5 YEARS**

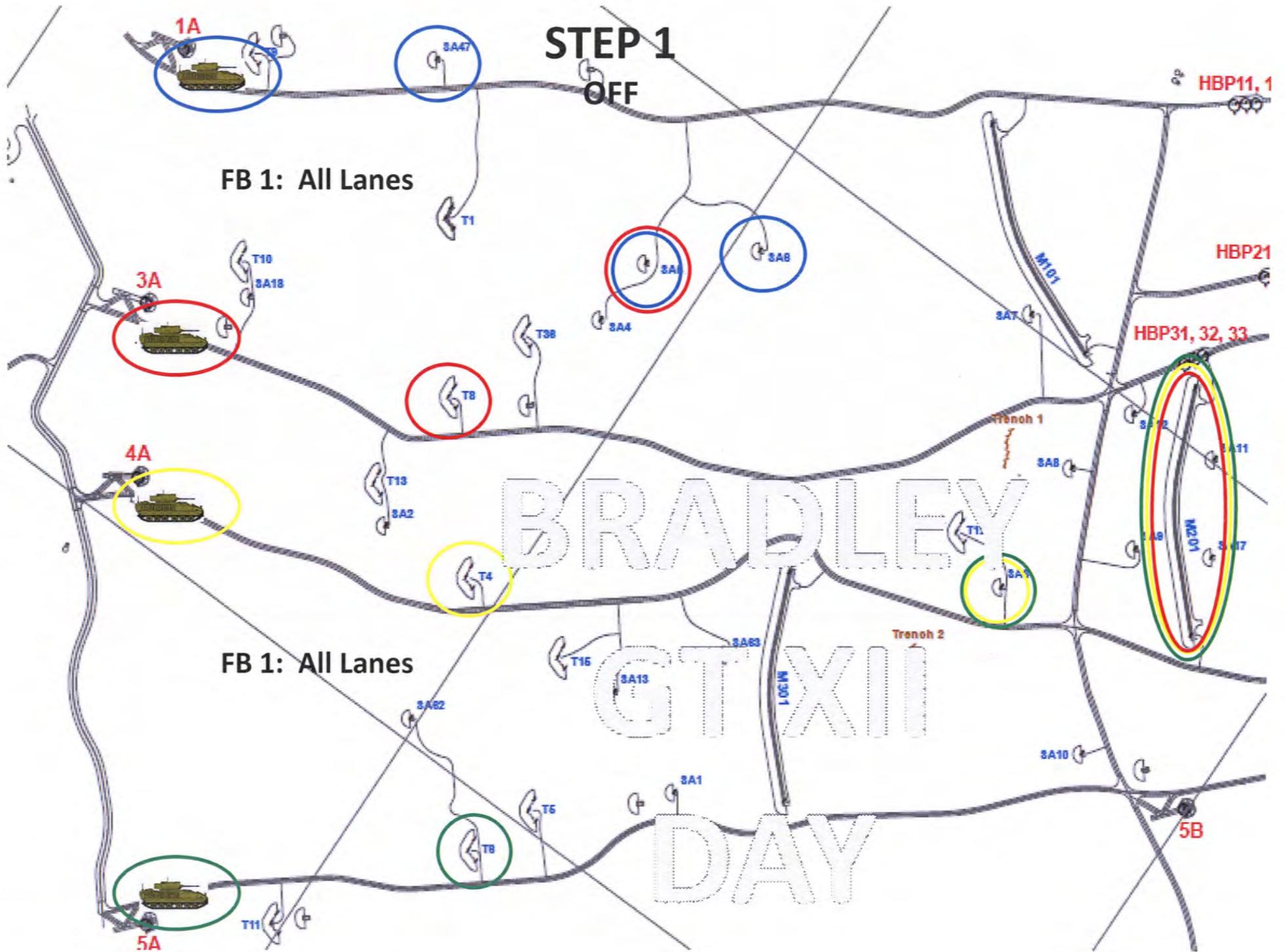
3HBCT SECTION & PLATOON LFX

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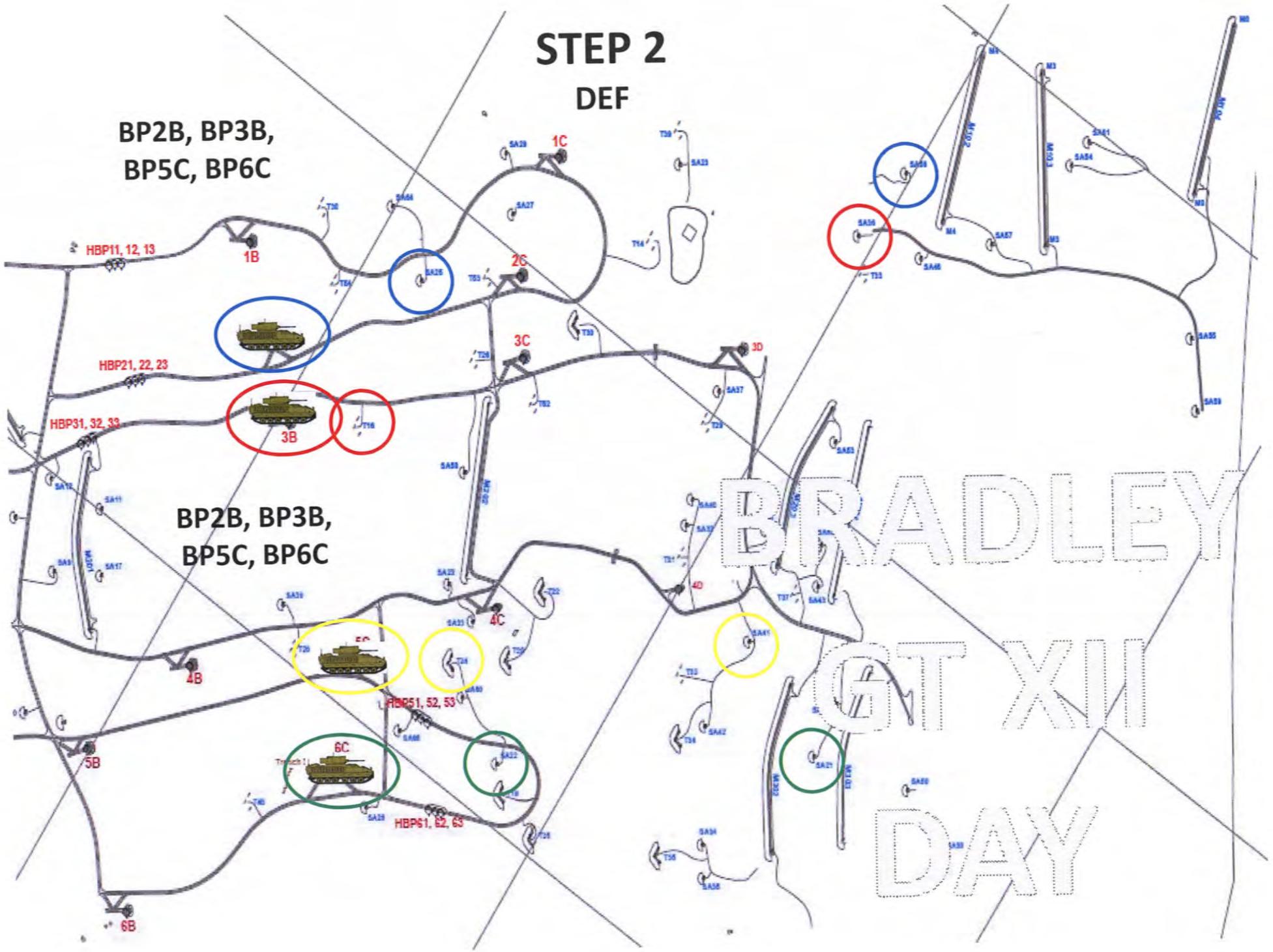
Sketch 1





STEP 2 DEF

BP2B, BP3B,
BP5C, BP6C



BP2B, BP3B,
BP5C, BP6C

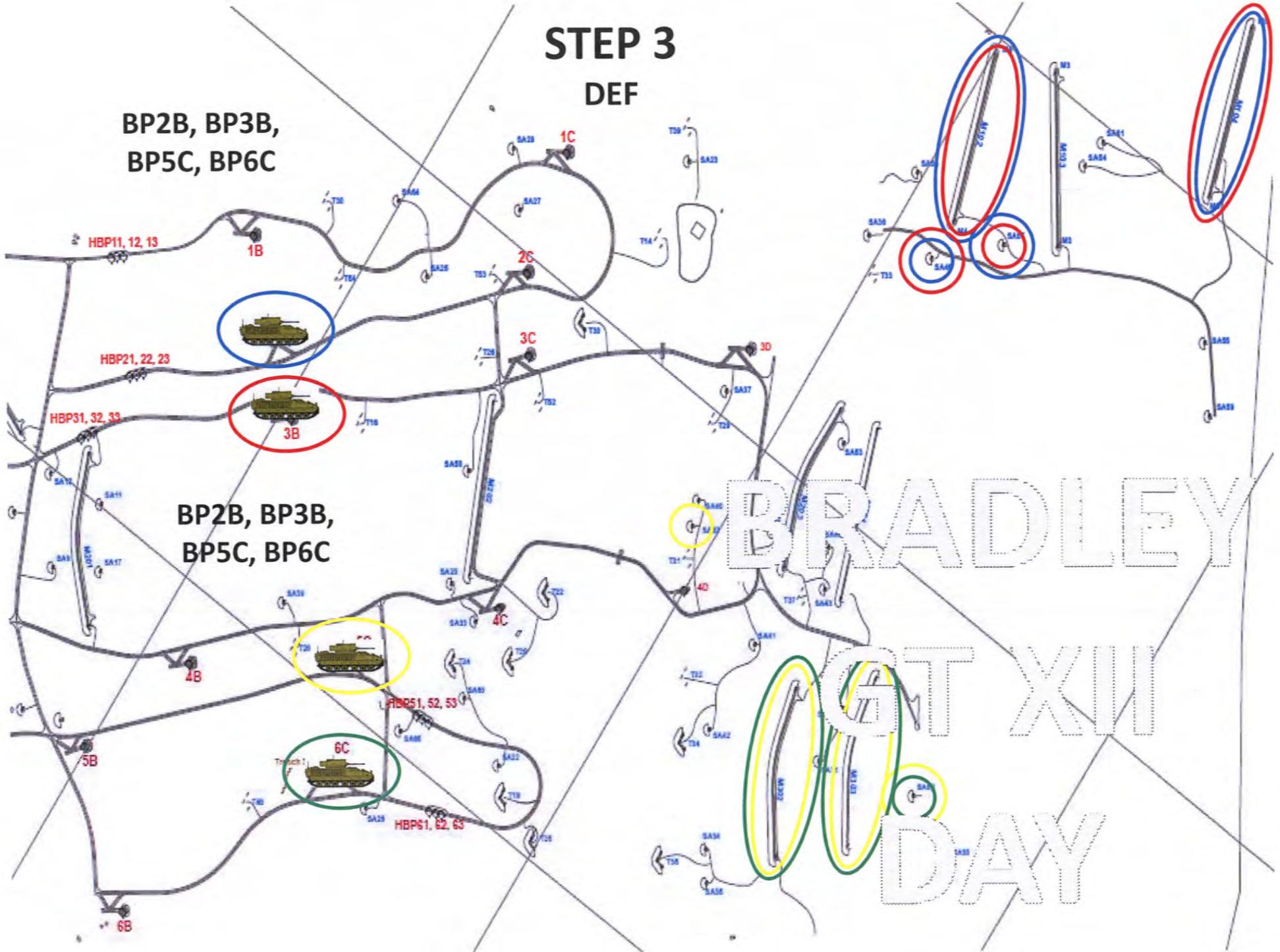
BRADLEY

GT XII

DAY

STEP 3 DEF

BP2B, BP3B,
BP5C, BP6C



HBP21, 22, 23

HBP31, 32, 33

BP2B, BP3B,
BP5C, BP6C

HBP51, 52, 53

HBP61, 62, 63

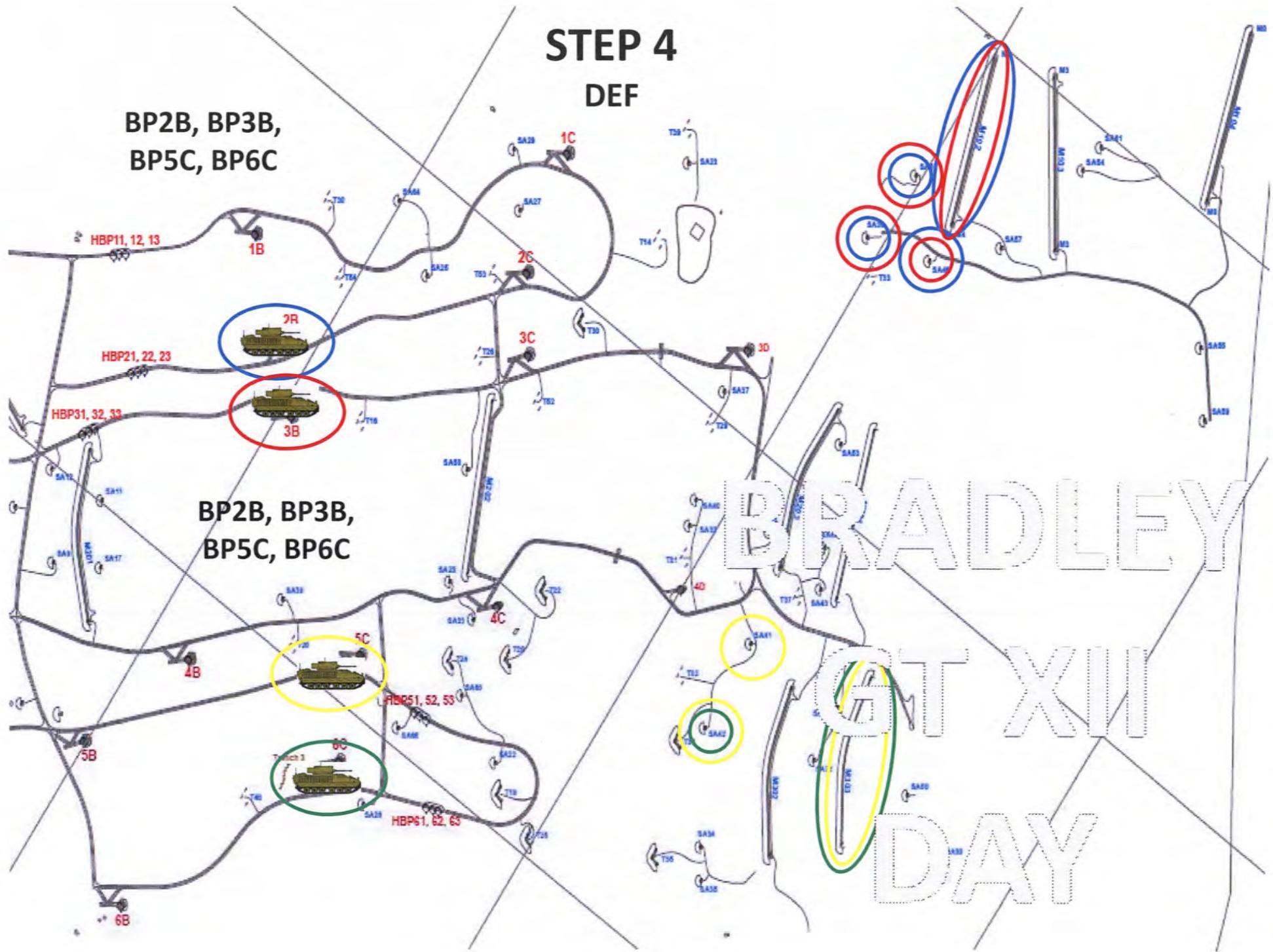
BRADLEY

GOT XII

DAY

STEP 4 DEF

BP2B, BP3B,
BP5C, BP6C



HBP11, 12, 13

1B

1C

2C

3C

3D

HBP21, 22, 23



3B

HBP31, 32, 33

BP2B, BP3B,
BP5C, BP6C



HBP51, 52, 53



HBP61, 62, 63

BRADLEY

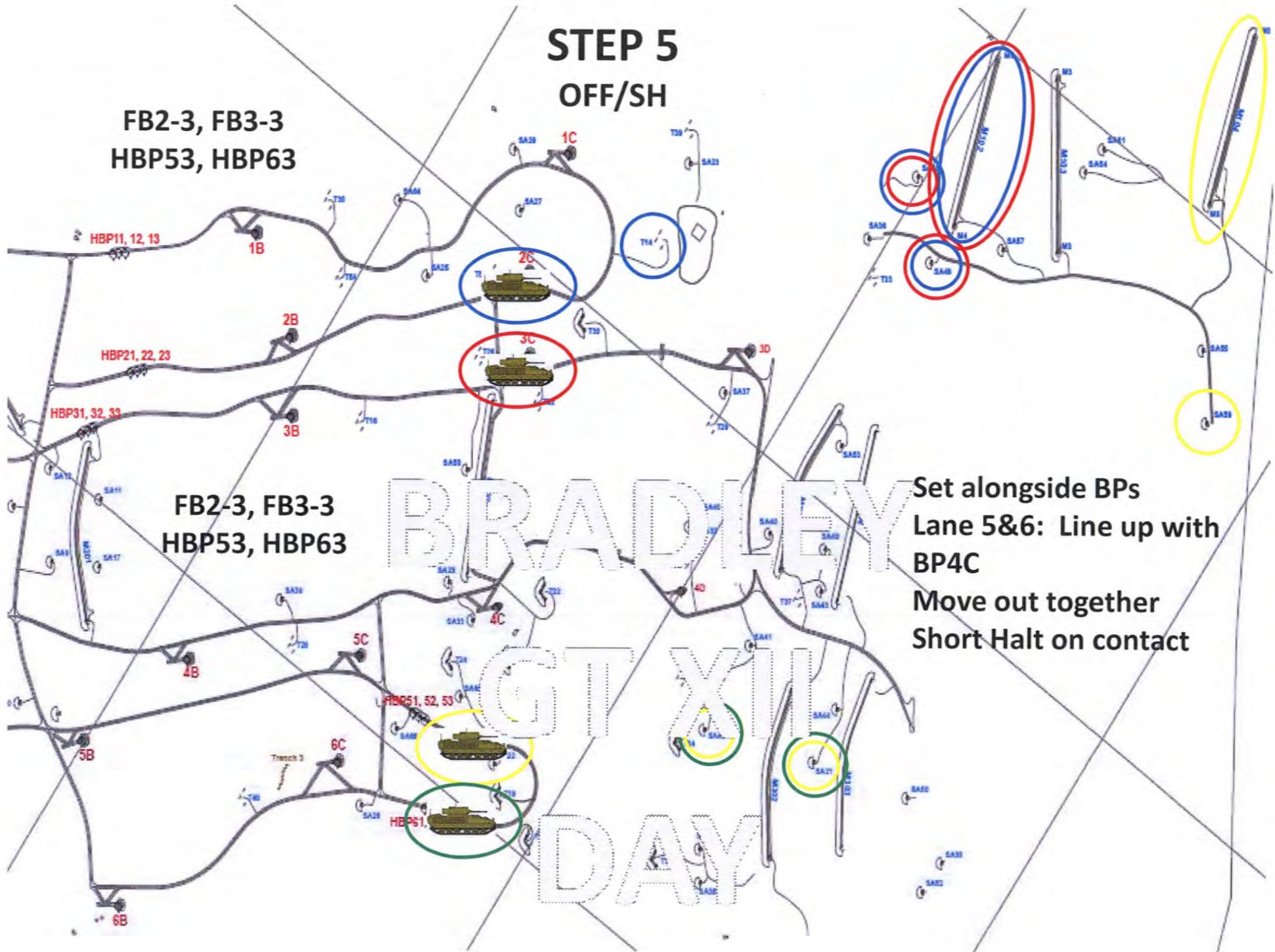
GT XII

DAY

6B

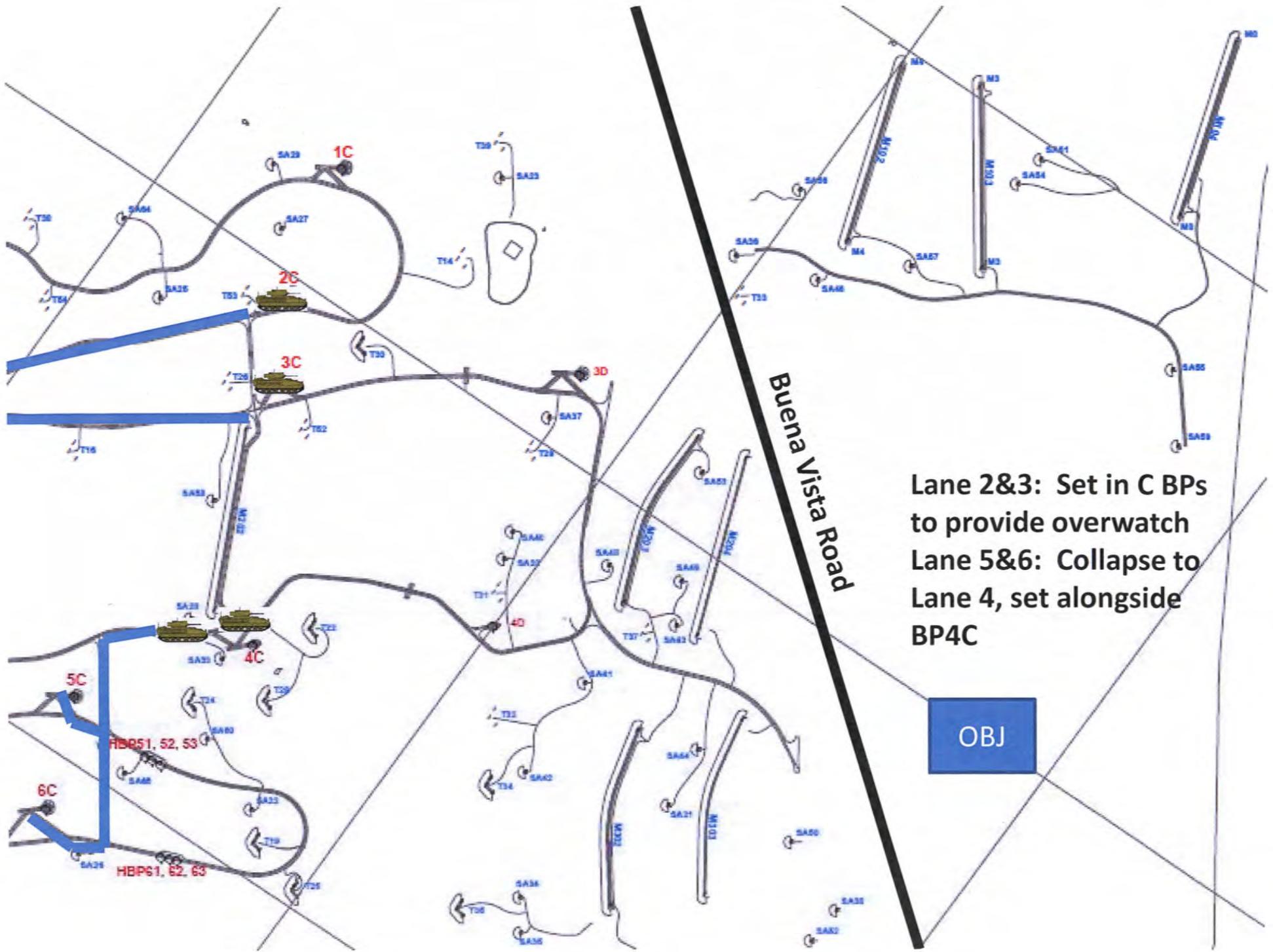
STEP 5 OFF/SH

FB2-3, FB3-3
HBP53, HBP63



FB2-3, FB3-3
HBP53, HBP63

Set alongside BPs
Lane 5&6: Line up with
BP4C
Move out together
Short Halt on contact

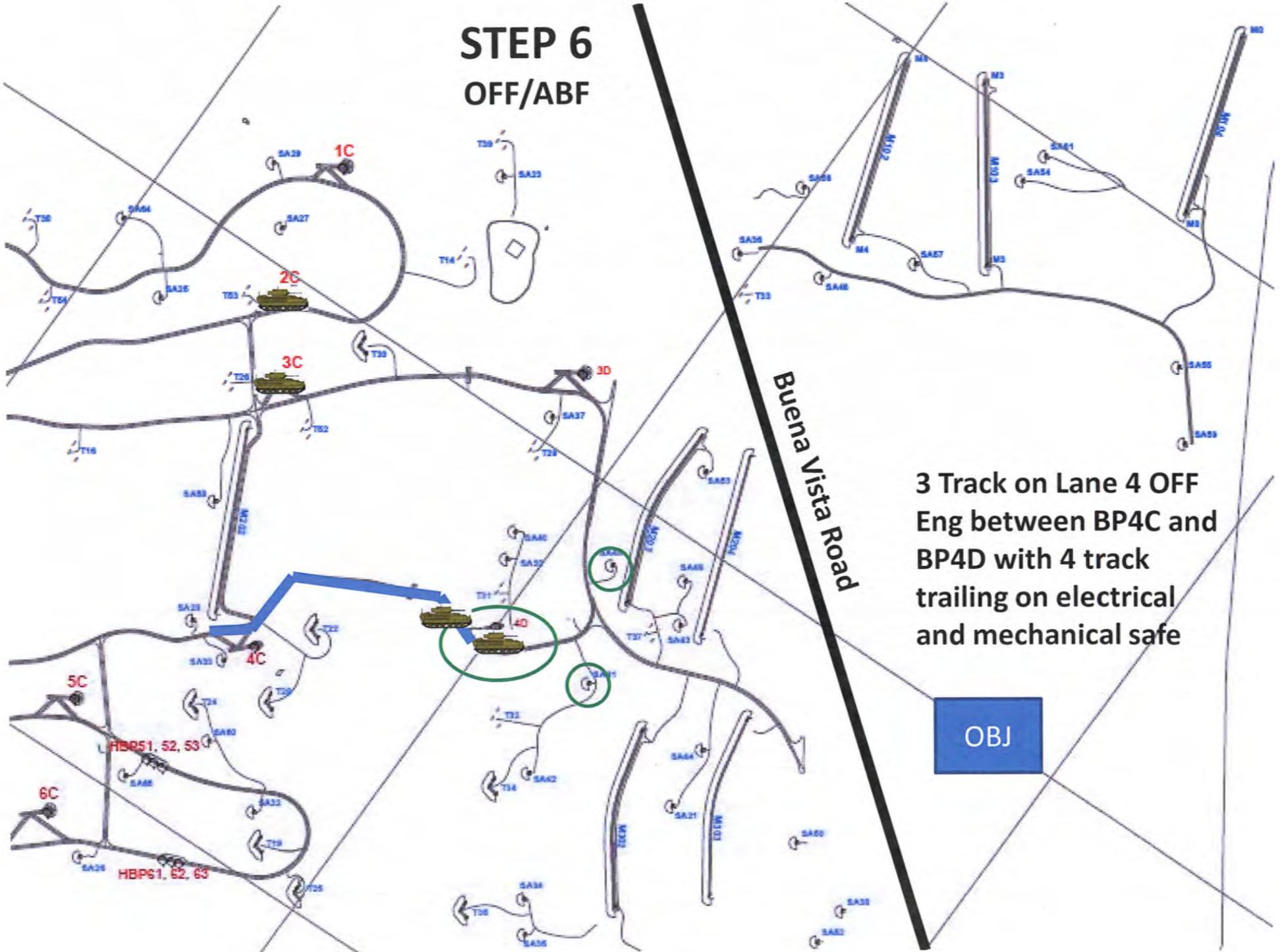


Buena Vista Road

Lane 2&3: Set in C BPs to provide overwatch
 Lane 5&6: Collapse to Lane 4, set alongside BP4C

OBJ

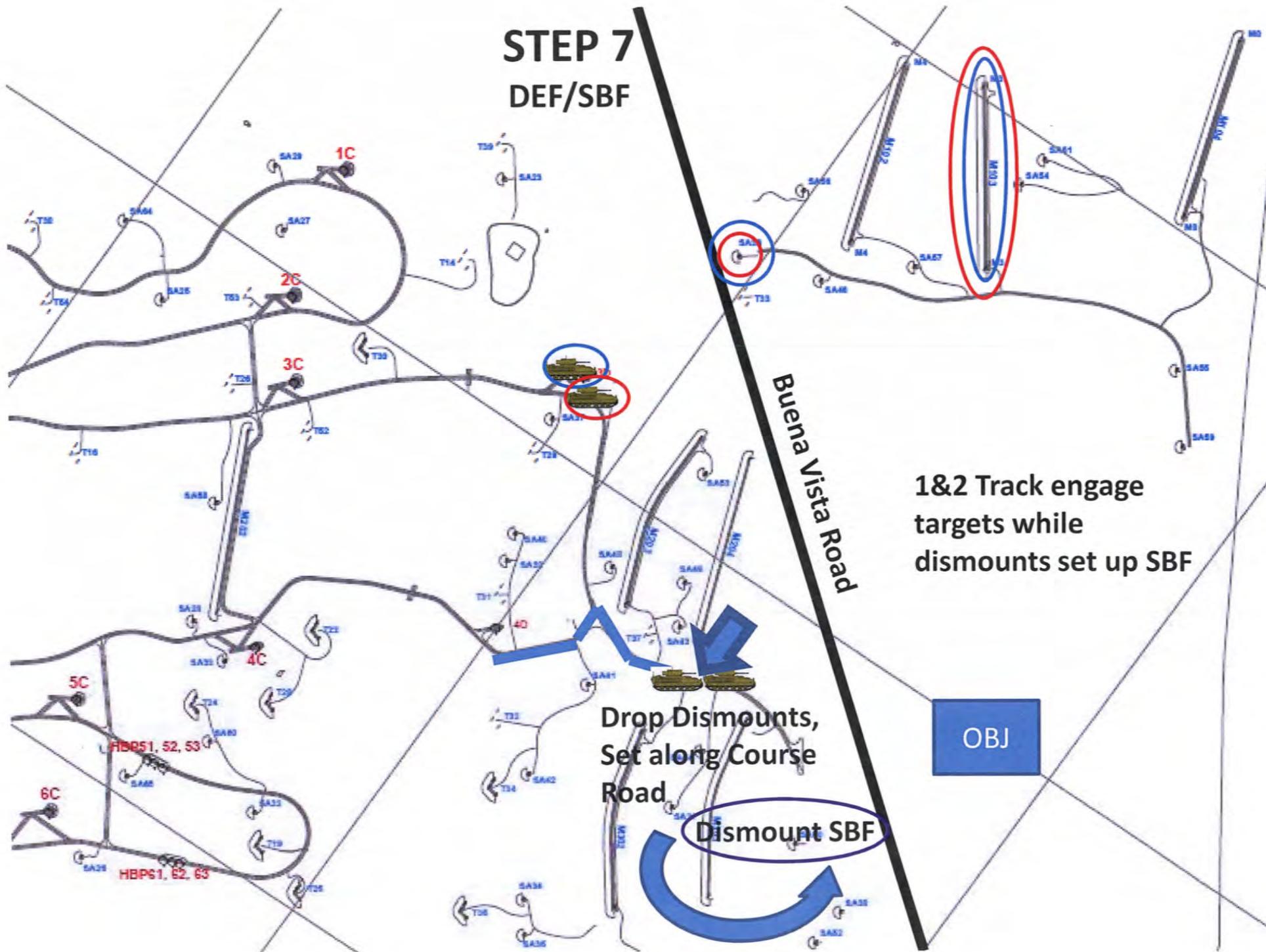
STEP 6 OFF/ABF



3 Track on Lane 4 OFF
Eng between BP4C and
BP4D with 4 track
trailing on electrical
and mechanical safe

OBJ

STEP 7 DEF/SBF



Buena Vista Road

1&2 Track engage targets while dismounts set up SBF

Drop Dismounts, Set along Course Road

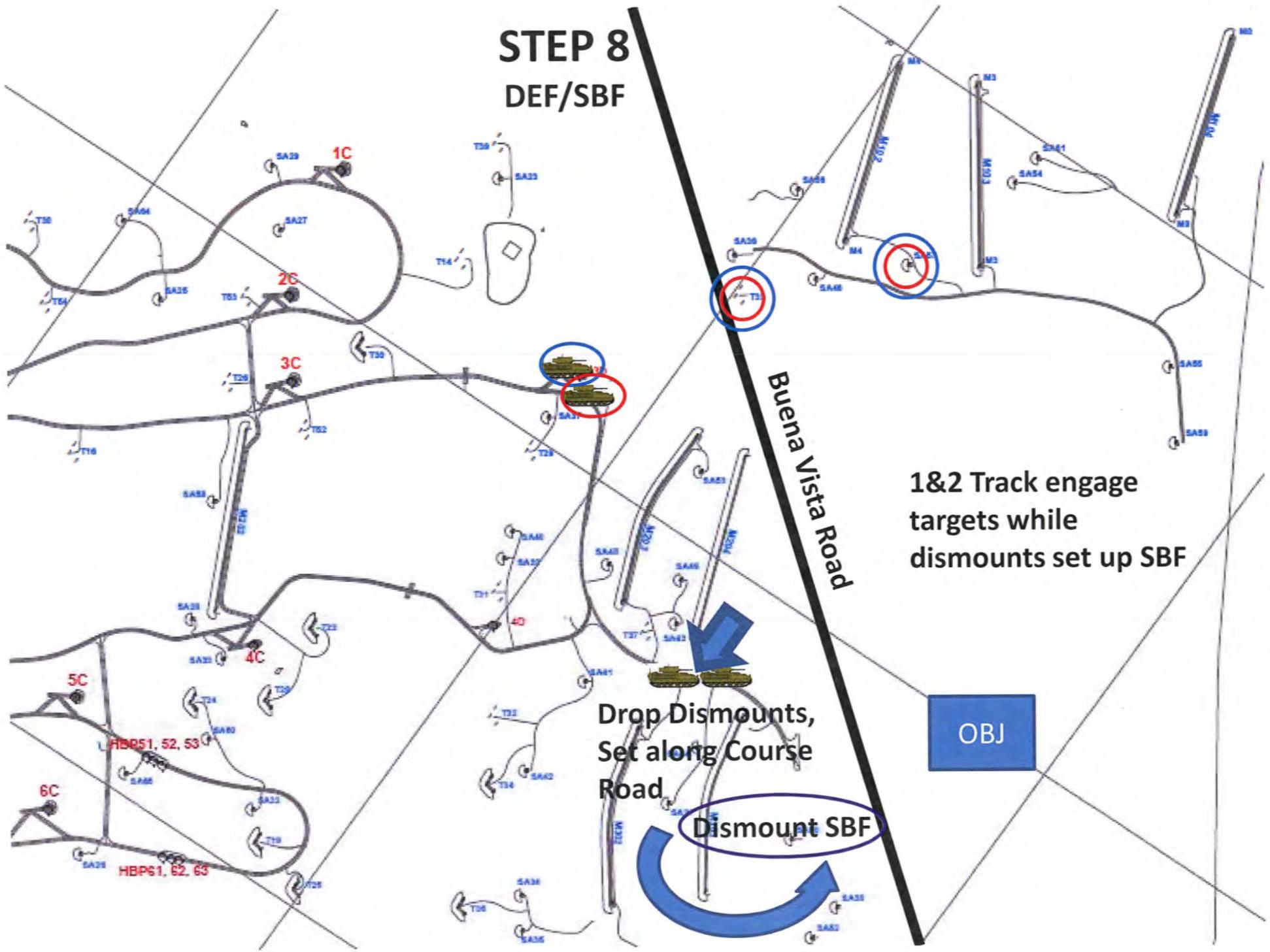
Dismount SBF

OBJ

FIBRS1, 52, 53

HBPS1, E2, 63

STEP 8 DEF/SBF

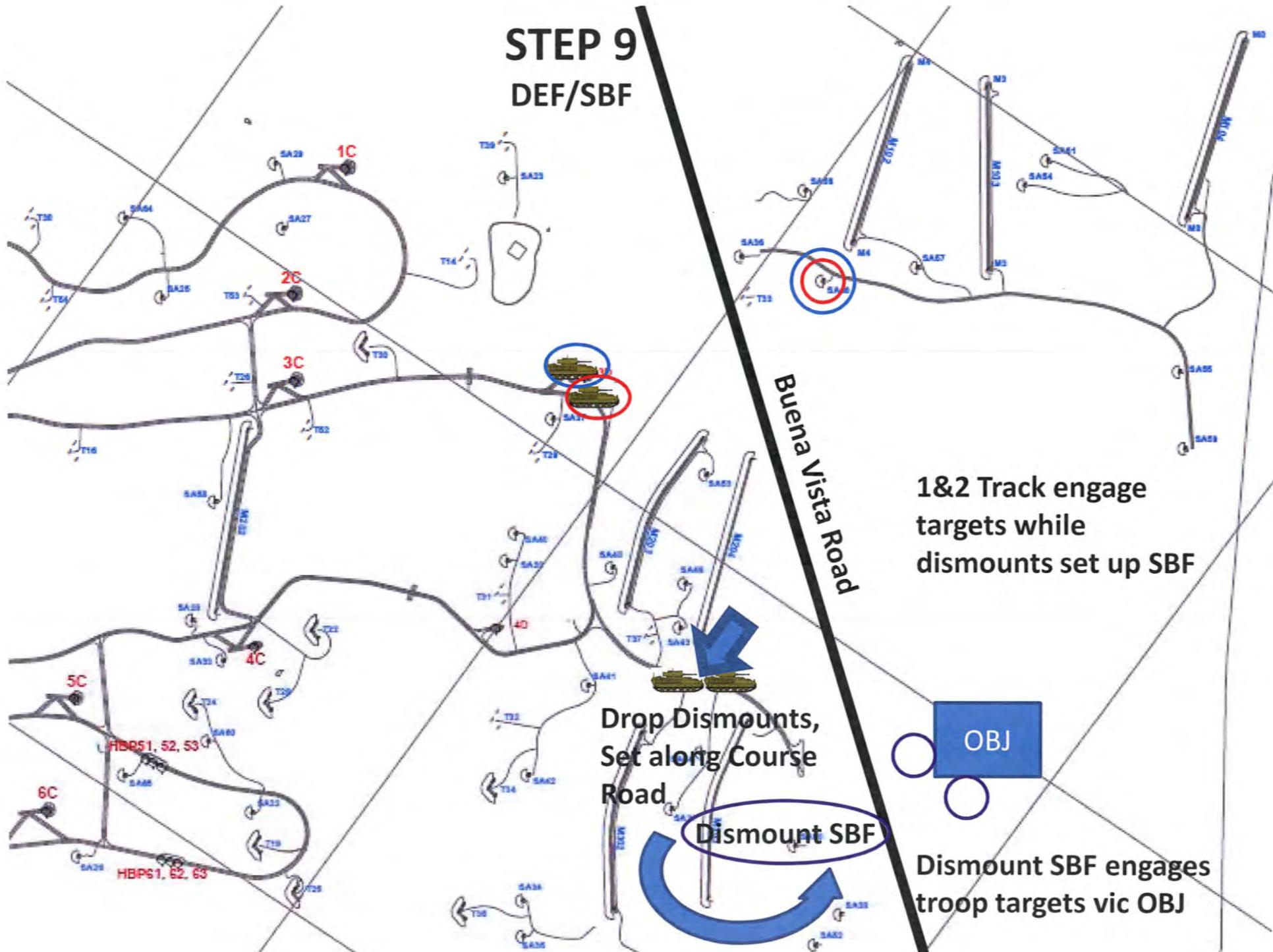


1&2 Track engage targets while dismounts set up SBF

Drop Dismounts, Set along Course Road

Dismount SBF

STEP 9 DEF/SBF



Buena Vista Road

1&2 Track engage targets while dismounts set up SBF

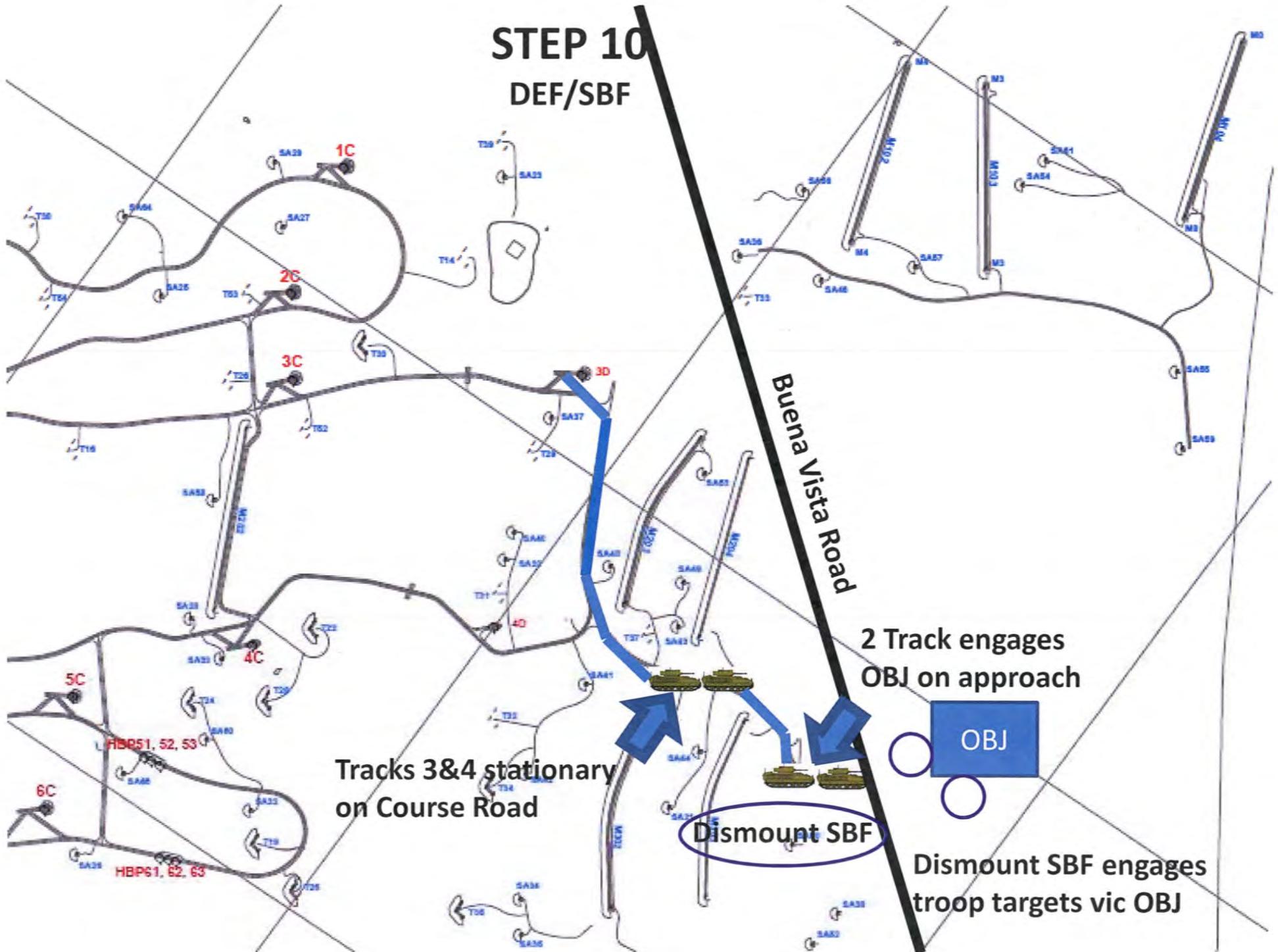
Drop Dismounts, Set along Course Road

Dismount SBF

OBJ

Dismount SBF engages troop targets vic OBJ

STEP 10 DEF/SBF



Buena Vista Road

2 Track engages
OBJ on approach

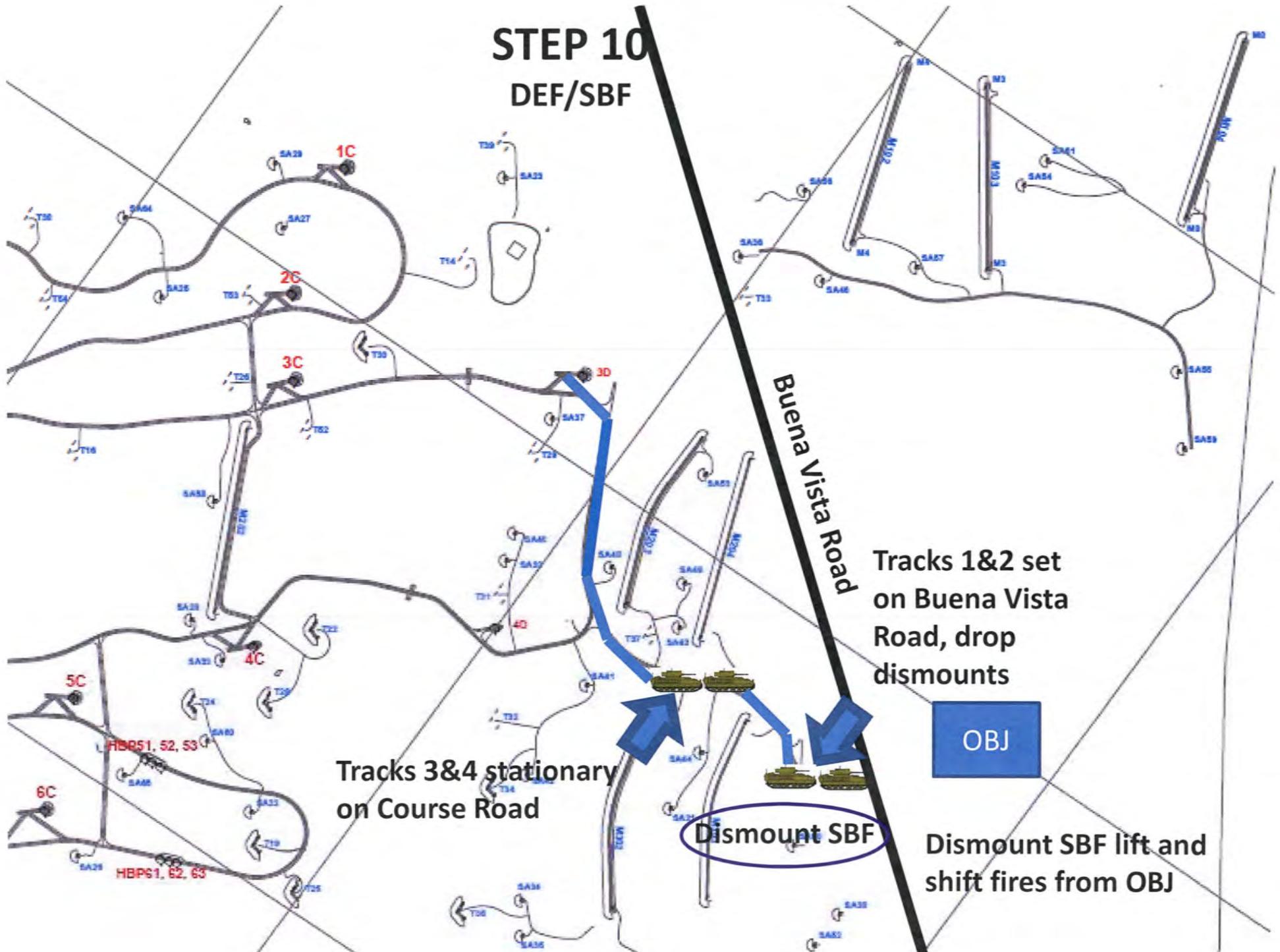
OBJ

Tracks 3&4 stationary
on Course Road

Dismount SBF

Dismount SBF engages
troop targets vic OBJ

STEP 10 DEF/SBF



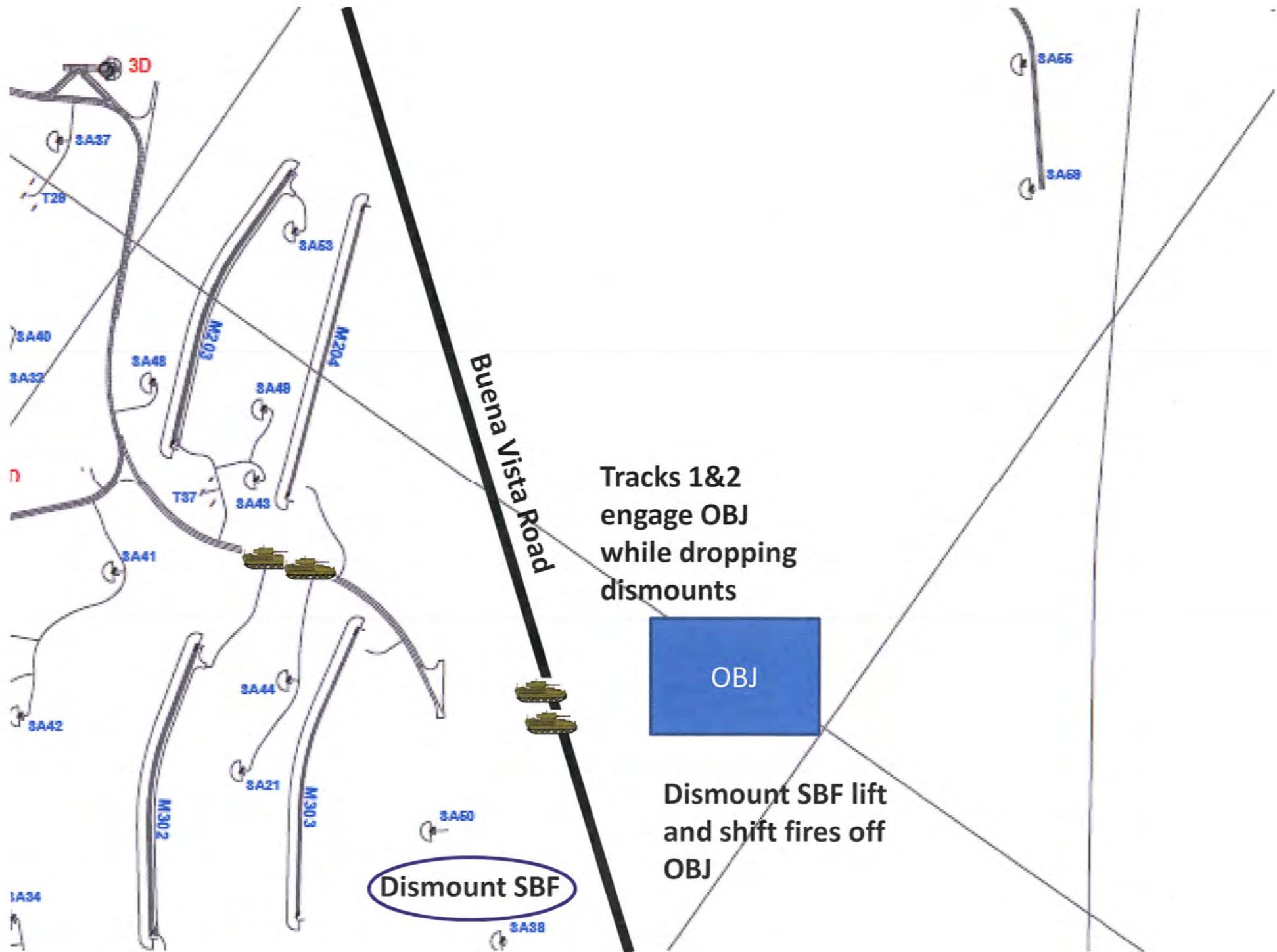
Tracks 1&2 set on Buena Vista Road, drop dismounts

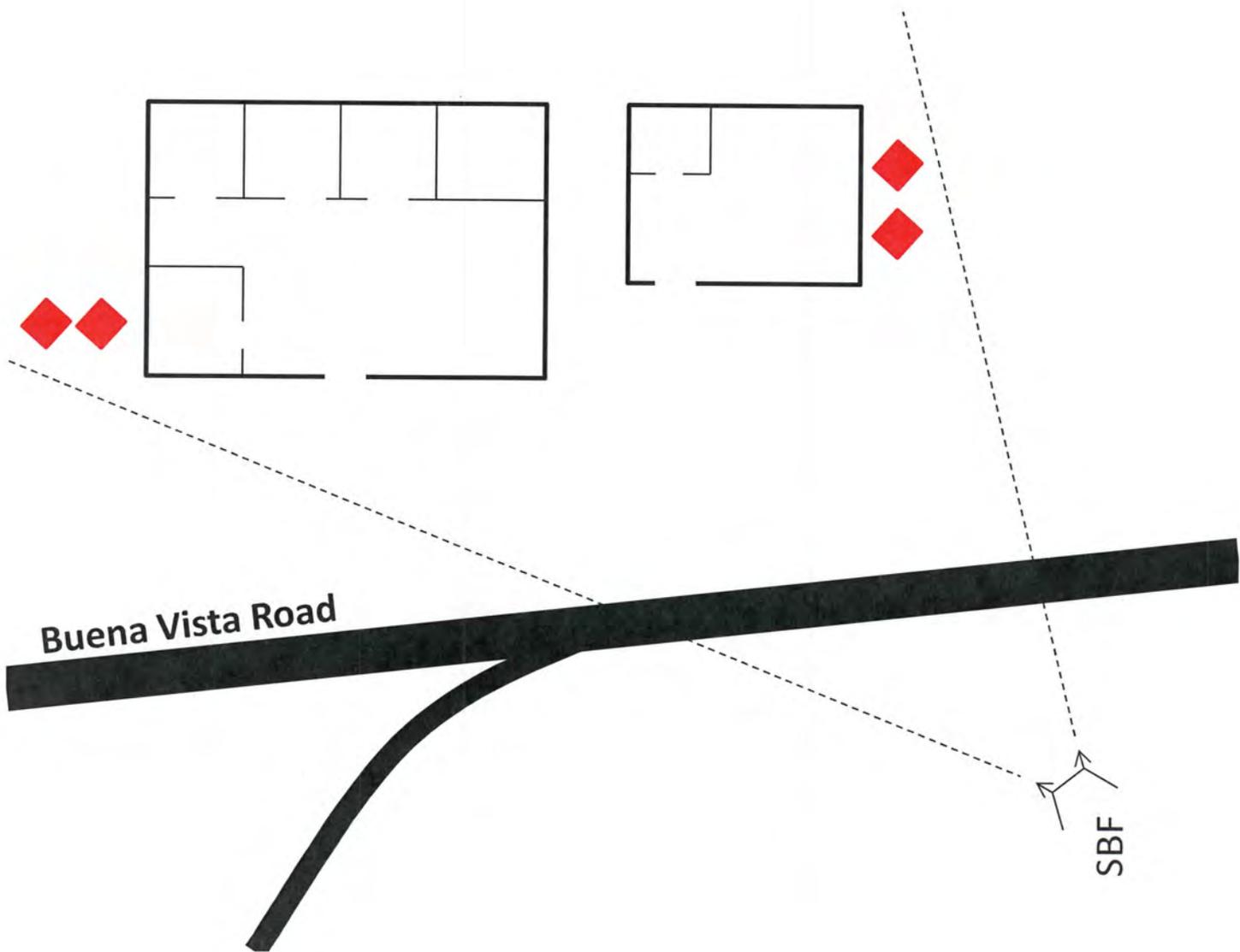
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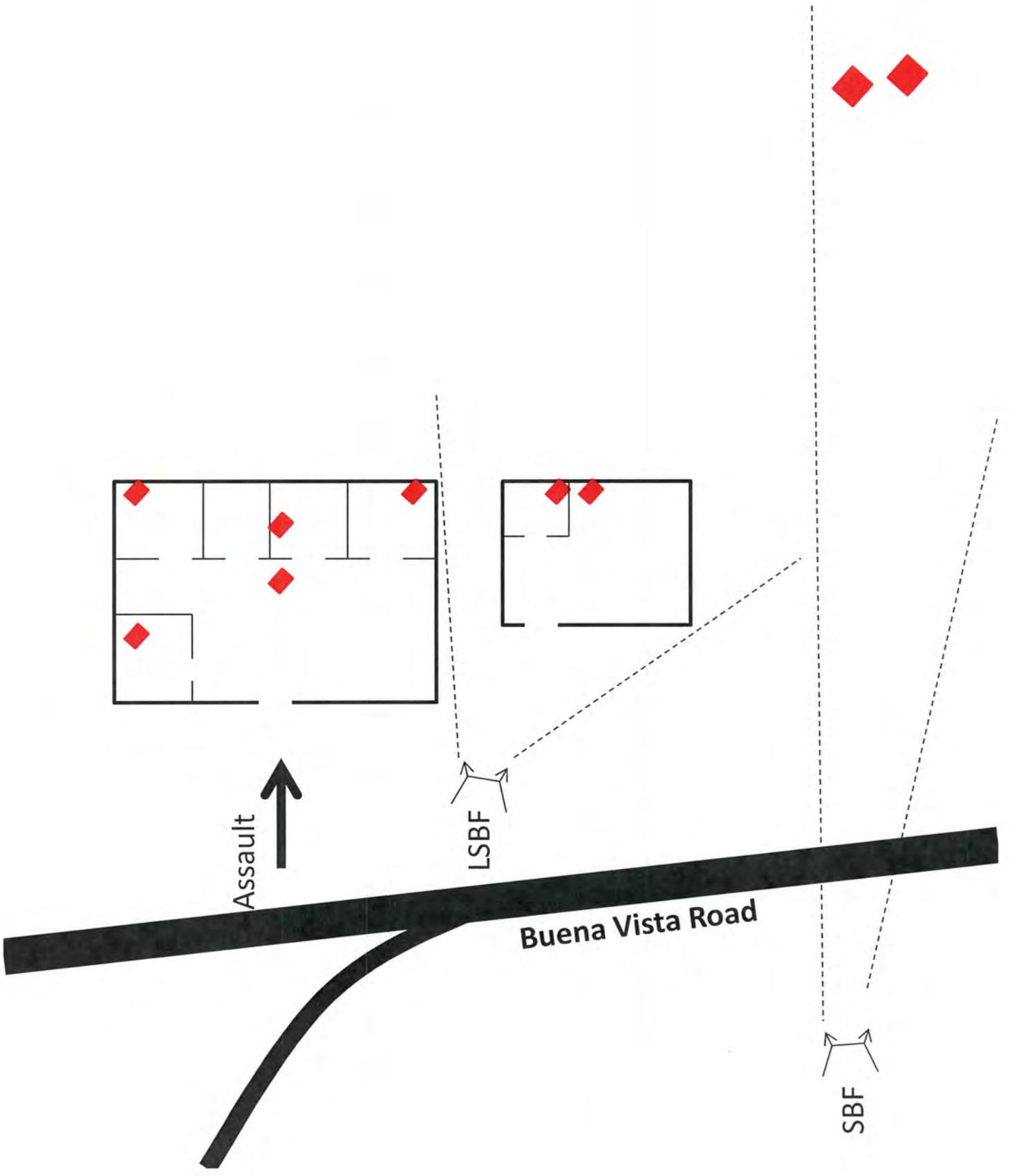
Tracks 3&4 stationary on Course Road

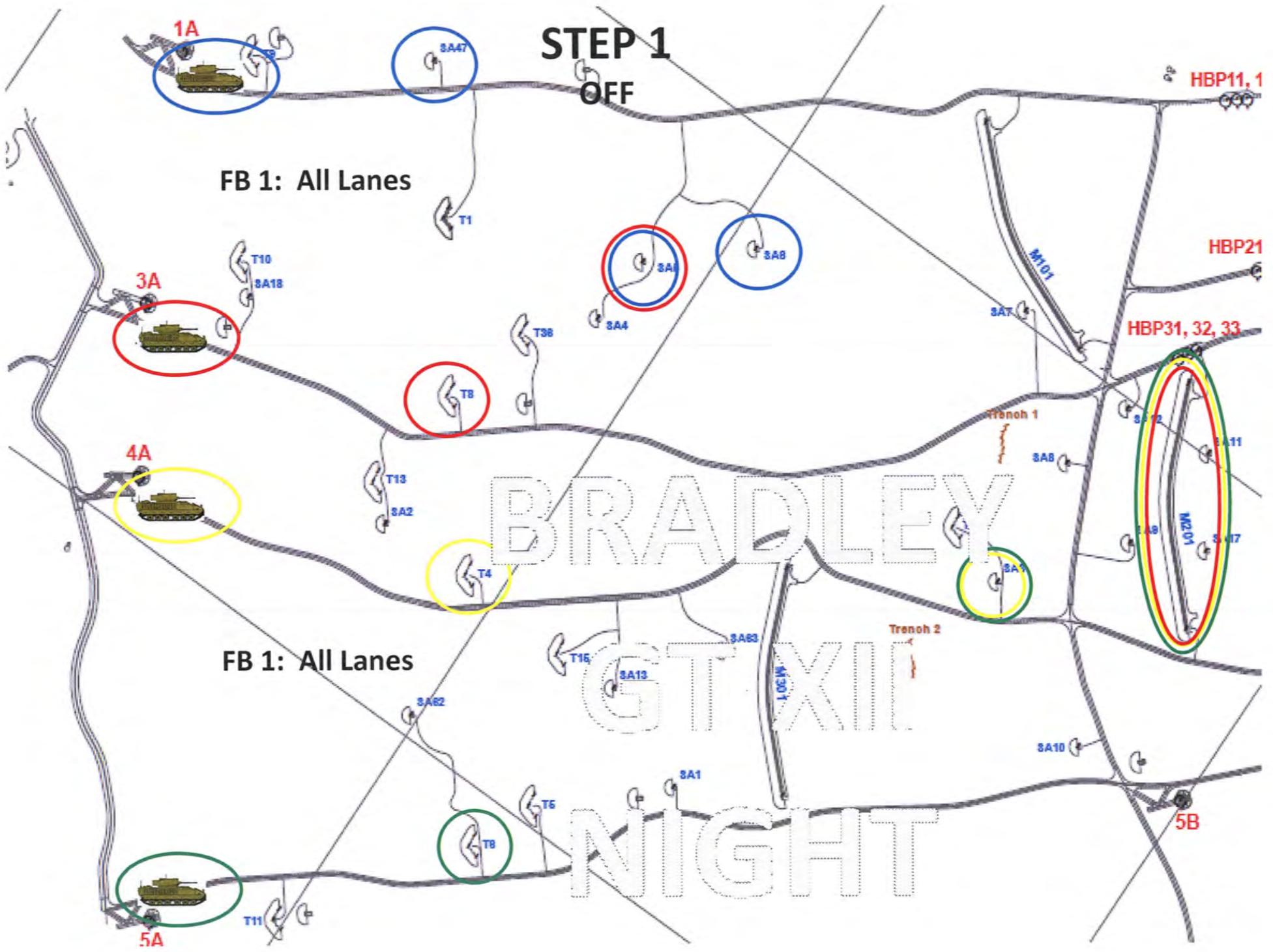
Dismount SBF

Dismount SBF lift and shift fires from OBJ









STEP 1 OFF

FB 1: All Lanes

FB 1: All Lanes

BRADLEY

GTXII

NIGHT

1A



SA47



OFF

HBP11, 1

FB 1: All Lanes

3A



T10

SA18



HBP21

HBP31, 32, 33



4A



T10

SA18



Trench 1

SA8

FB 1: All Lanes

GTXII

Trench 2

T15

SA13

SA63

LOC

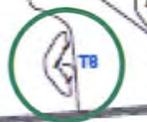
SA10

5B

5A



T11



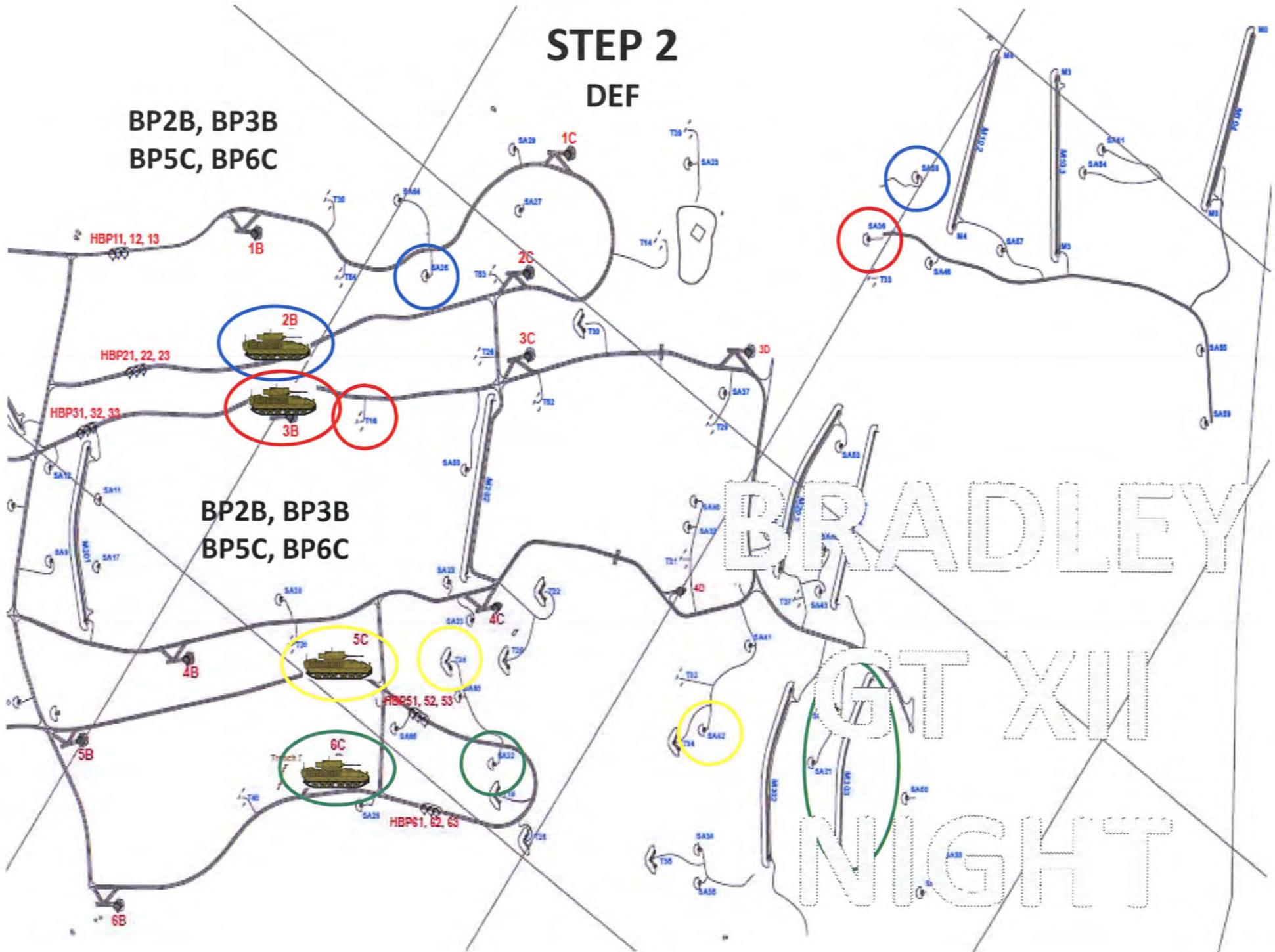
SA1

T6

NIGHT

STEP 2 DEF

BP2B, BP3B
BP5C, BP6C



HBP11, 12, 13

1B

1C

2C

2B

HBP21, 22, 23

3C

3B

HBP31, 32, 33

BP2B, BP3B
BP5C, BP6C

BRADLEY

GT XII

NIGHT

4B

5C

4C

HBP51, 52, 53

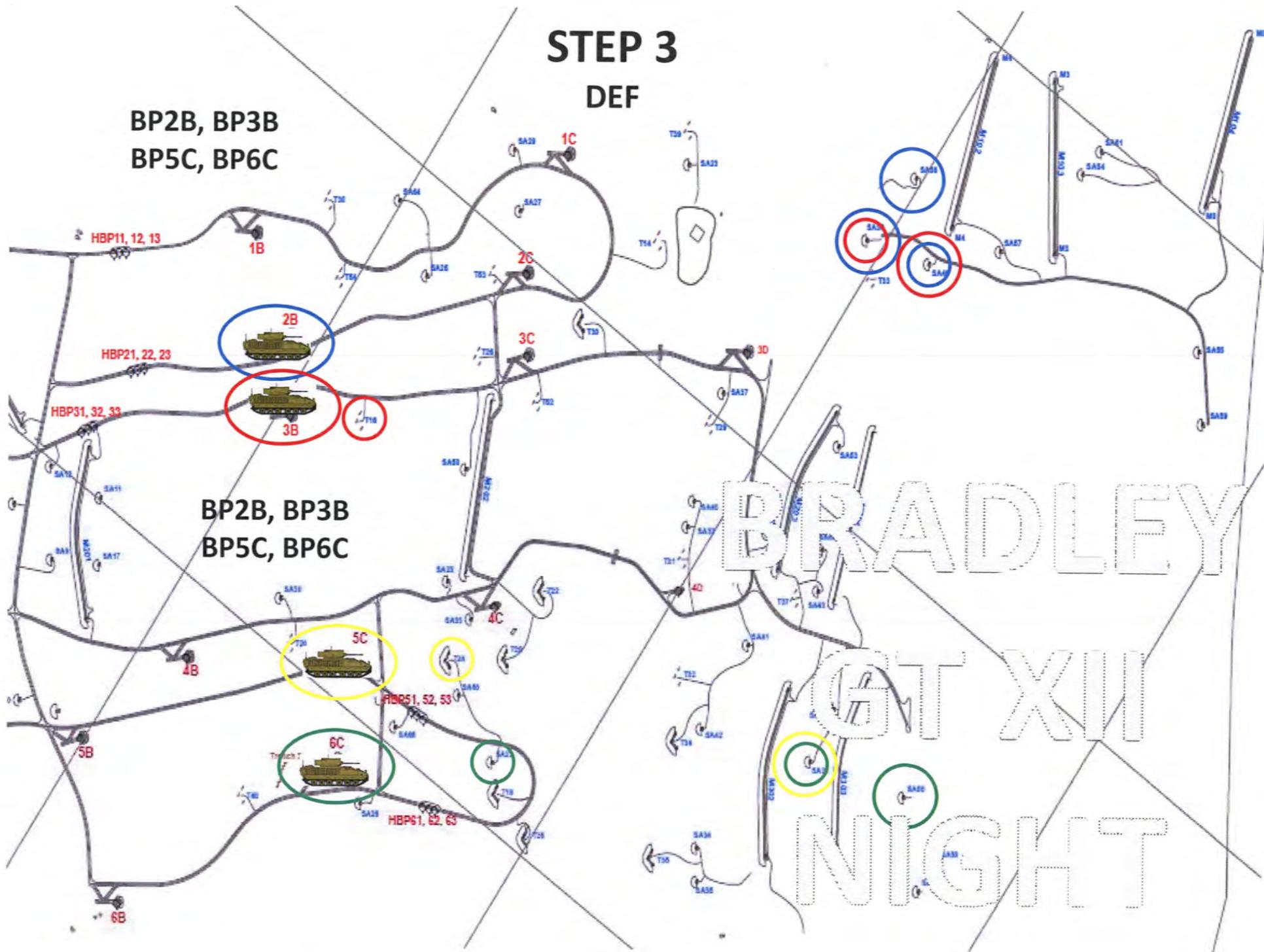
6C

HBP61, 62, 63

6B

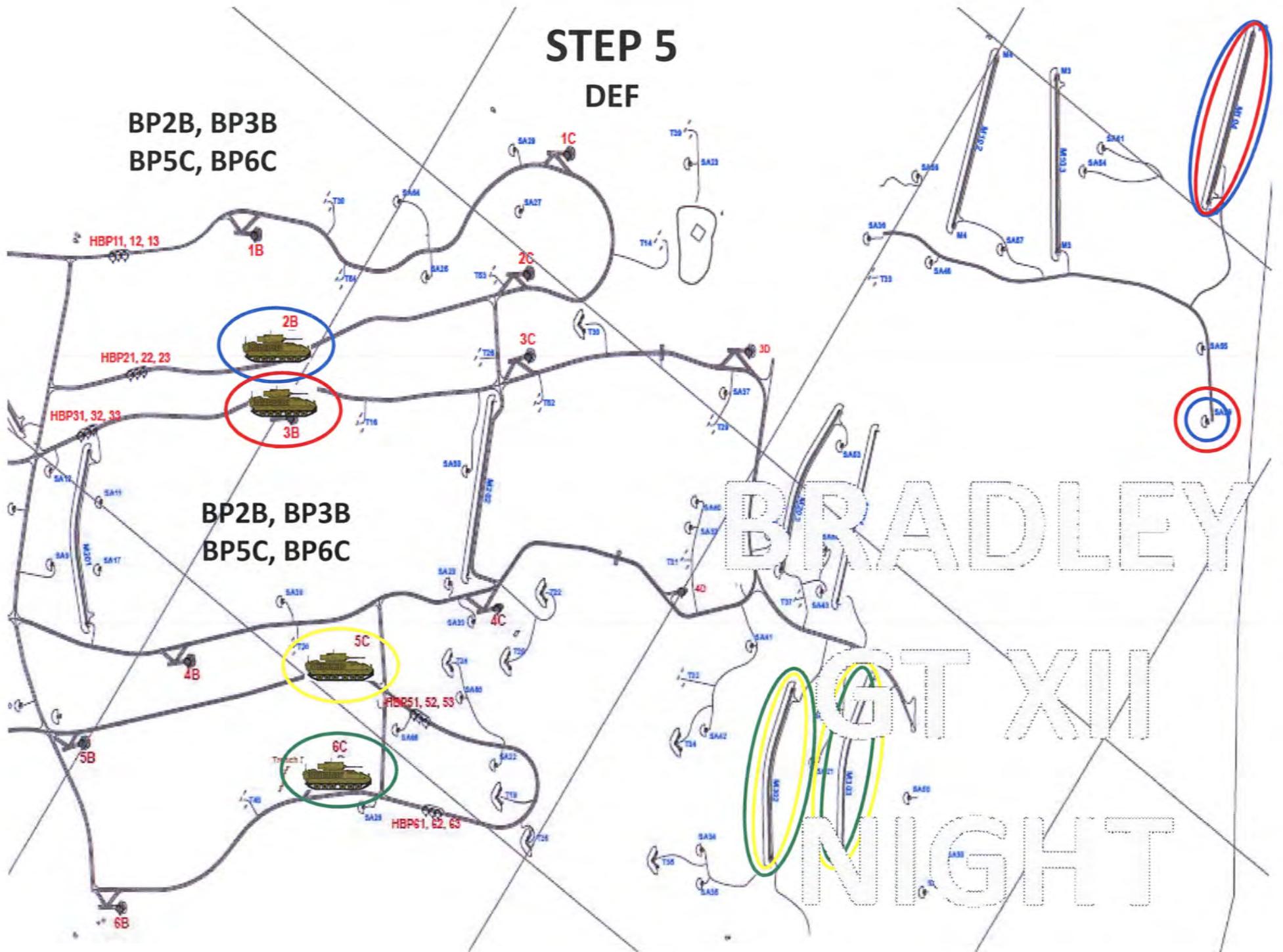
STEP 3 DEF

BP2B, BP3B
BP5C, BP6C



STEP 5 DEF

BP2B, BP3B
BP5C, BP6C



HBP11, 12, 13

1B

1C

2C

2B

HBP21, 22, 23

3C

3D

3B

HBP31, 32, 33

BP2B, BP3B
BP5C, BP6C

BRADLEY

5C

HBP51, 52, 53

4C

GT XII

4B

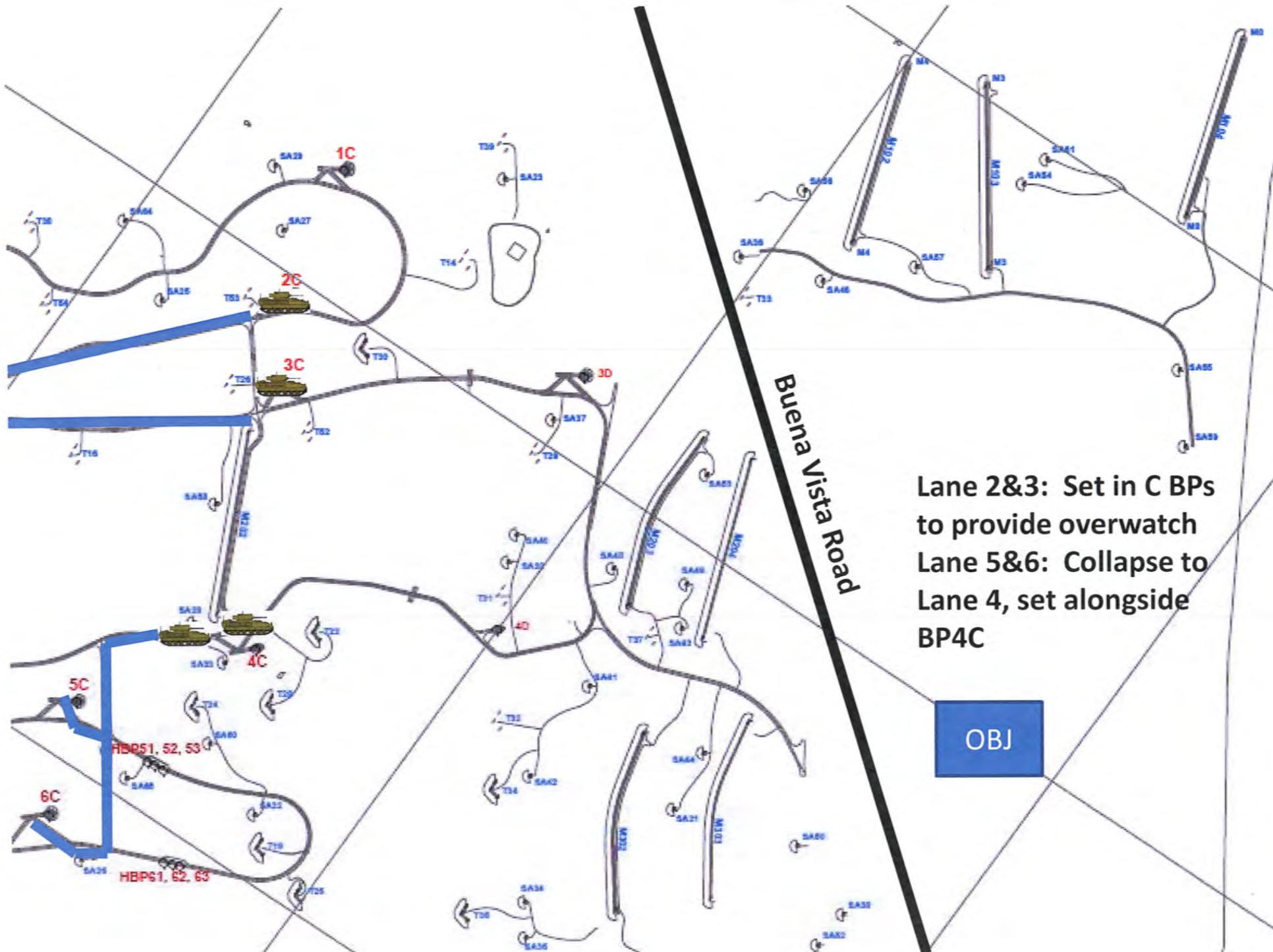
6C

HBP61, 62, 63

6C

NIGHT

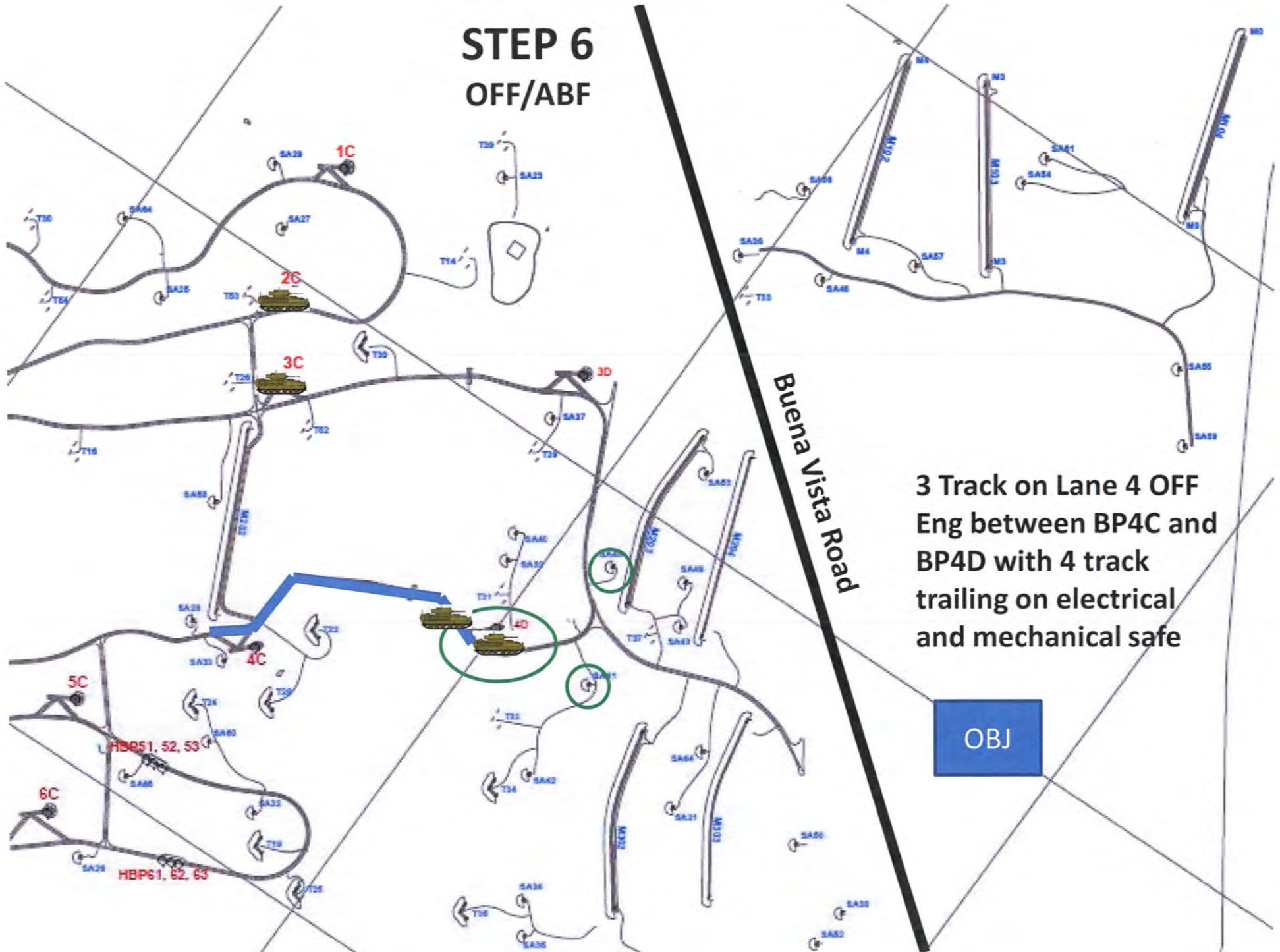
6B



Lane 2&3: Set in C BPs
 to provide overwatch
 Lane 5&6: Collapse to
 Lane 4, set alongside
 BP4C

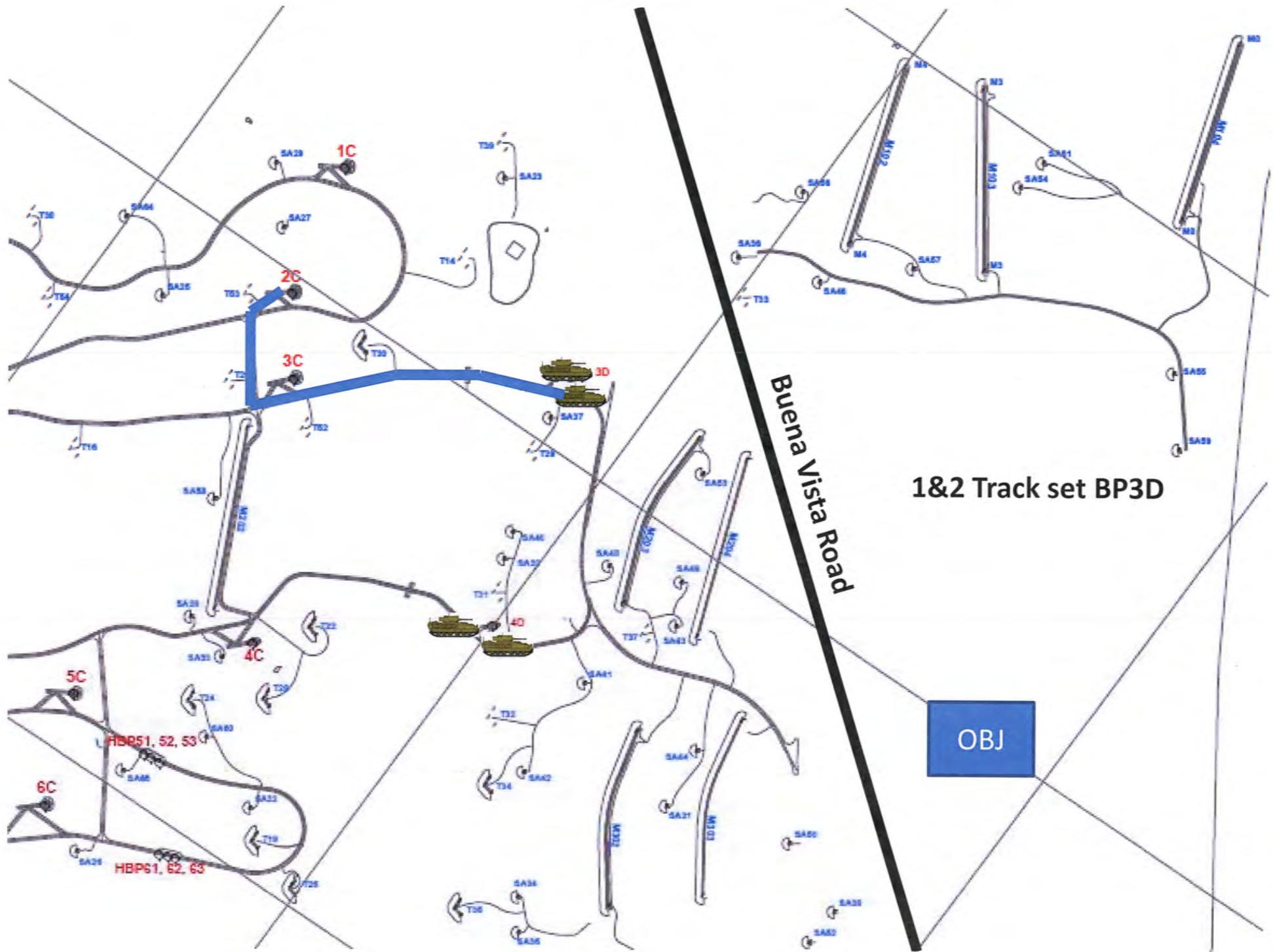
OBJ

STEP 6 OFF/ABF



3 Track on Lane 4 OFF
Eng between BP4C and
BP4D with 4 track
trailing on electrical
and mechanical safe

OBJ



1&2 Track set BP3D

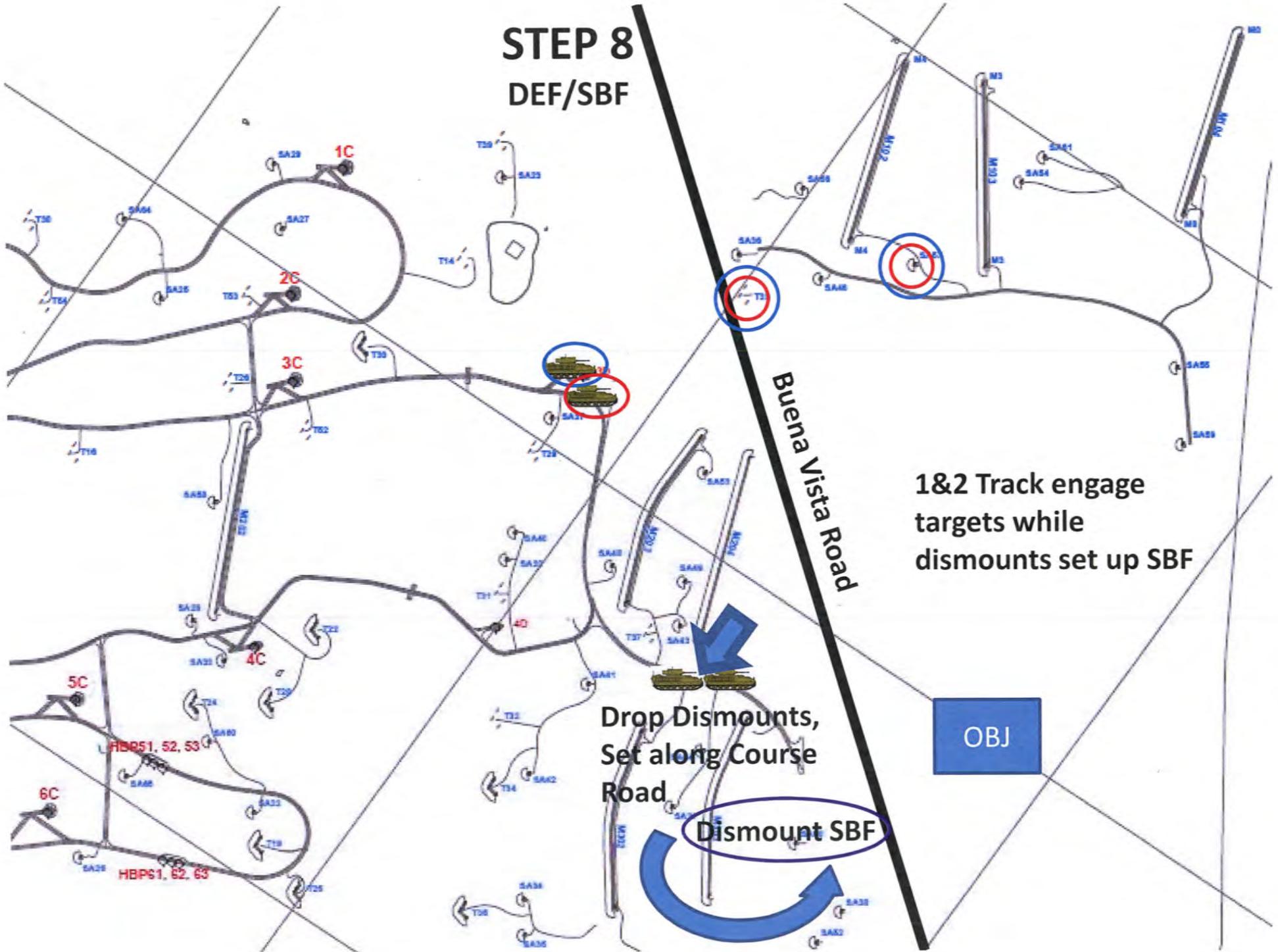
Buena Vista Road

OBJ

HBPS1, 52, 53

HBPS1, 62, 63

STEP 8 DEF/SBF



1&2 Track engage targets while dismounts set up SBF

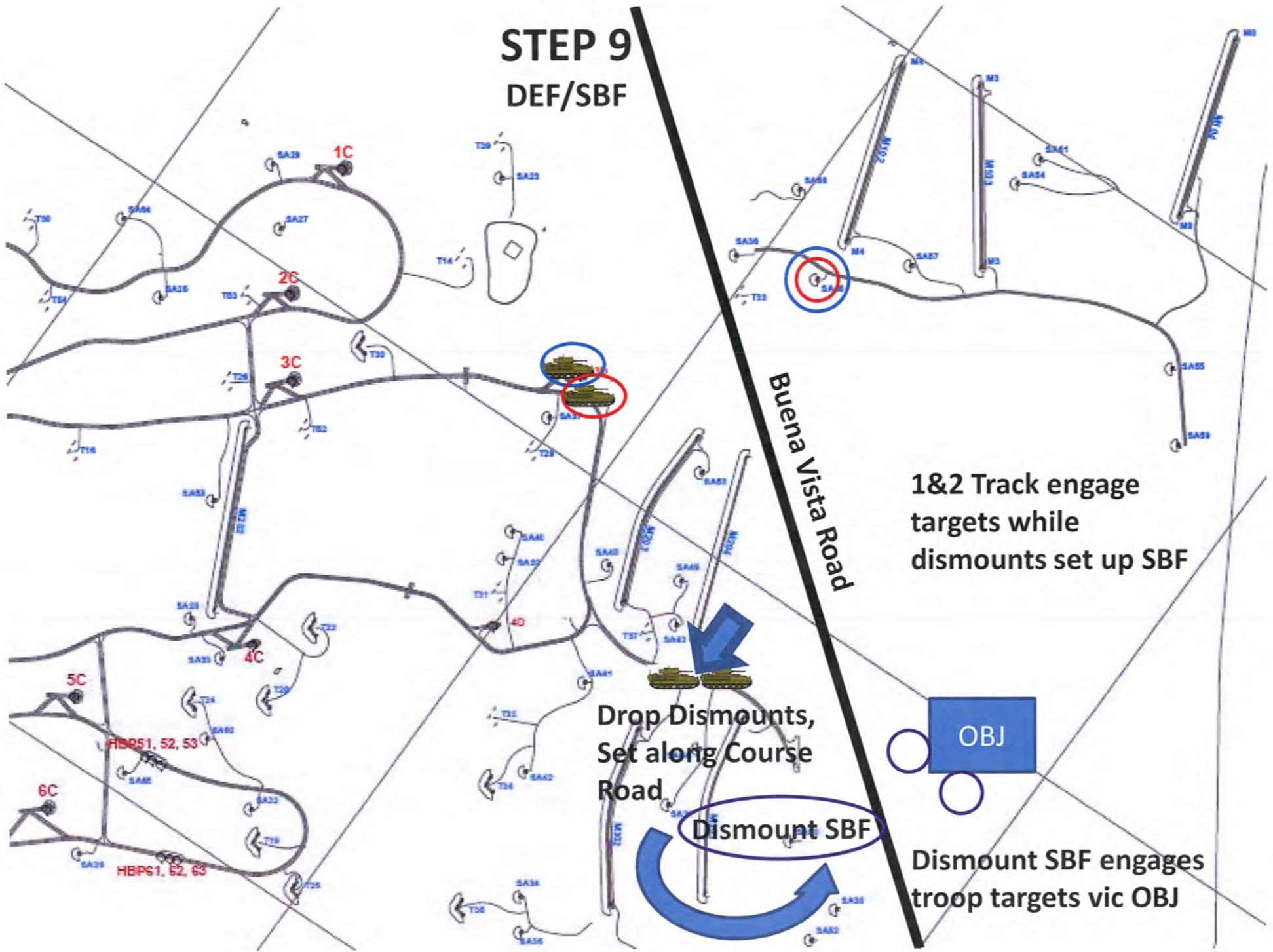
Drop Dismounts, Set along Course Road

Dismount SBF

OBJ

Buena Vista Road

STEP 9 DEF/SBF



Buena Vista Road

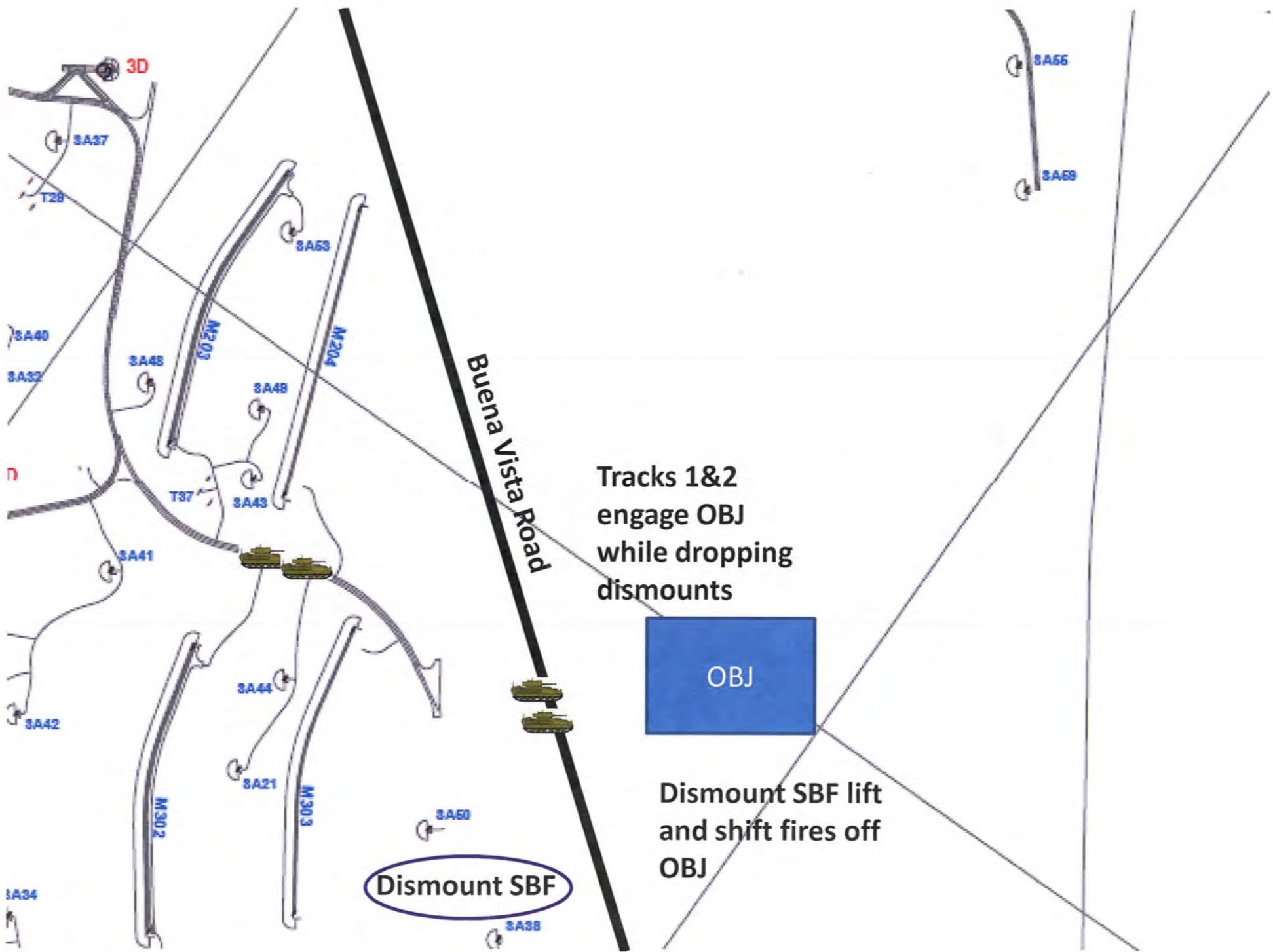
1&2 Track engage targets while dismounts set up SBF

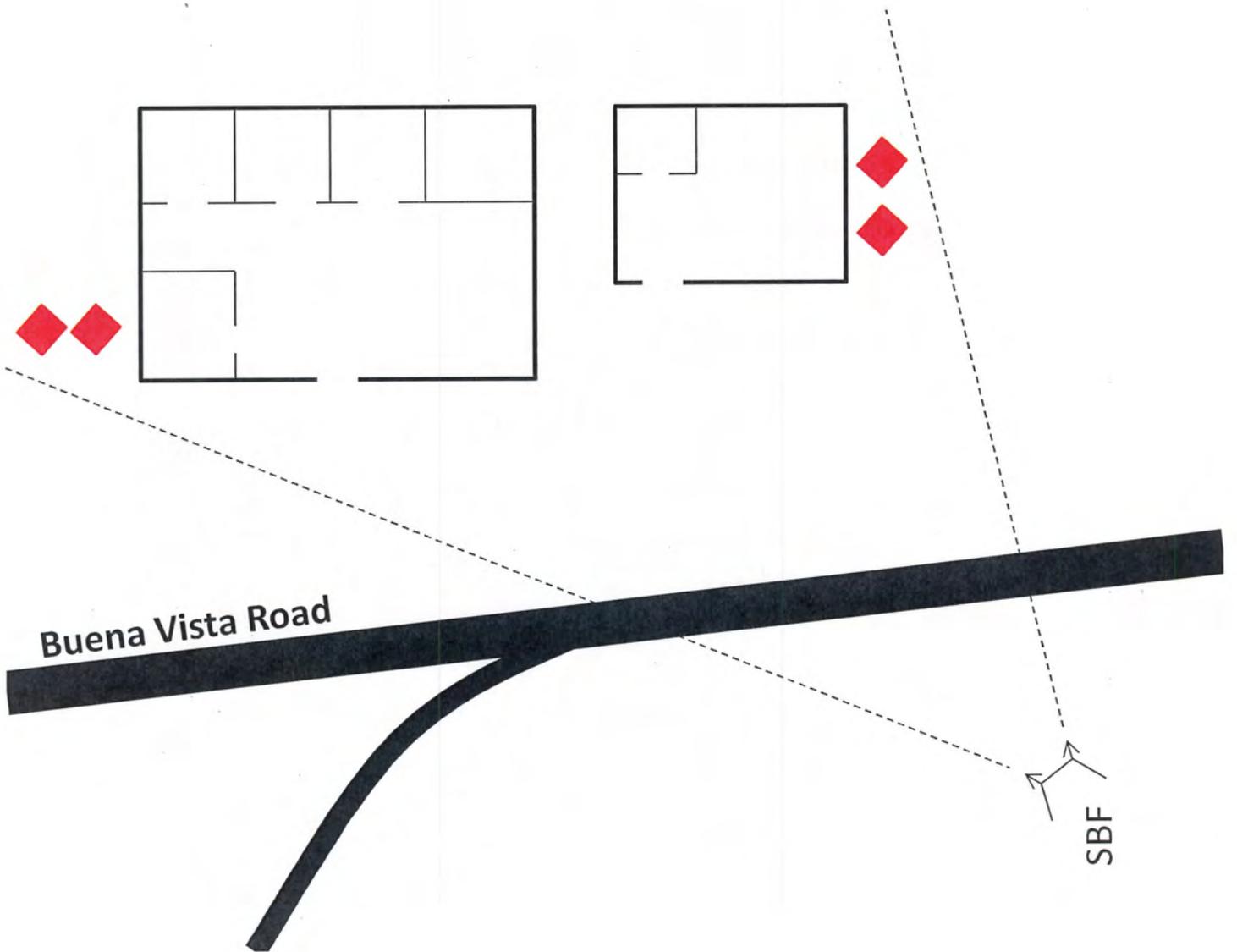
Drop Dismounts, Set along Course Road

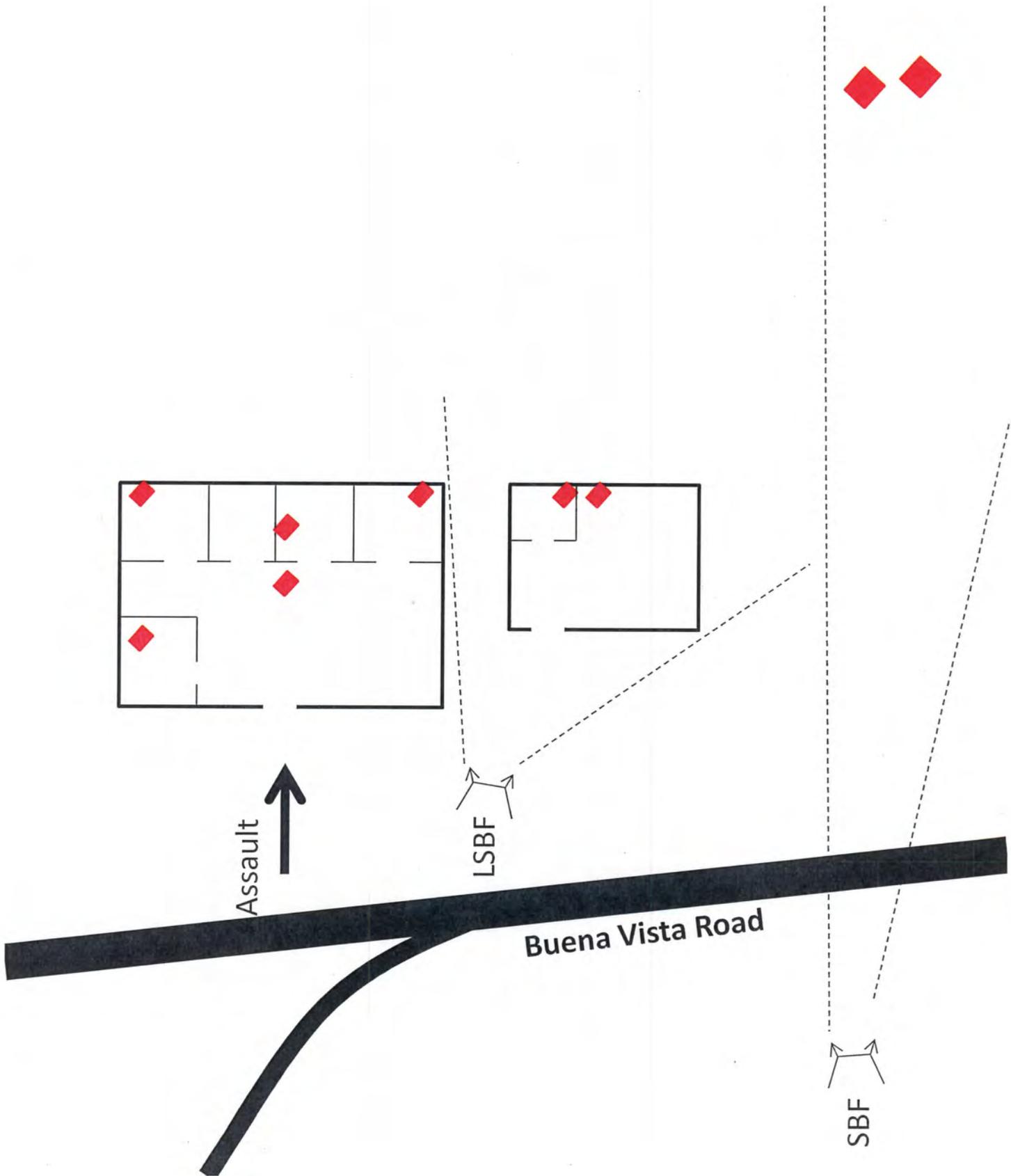
Dismount SBF

OBJ

Dismount SBF engages troop targets vic OBJ





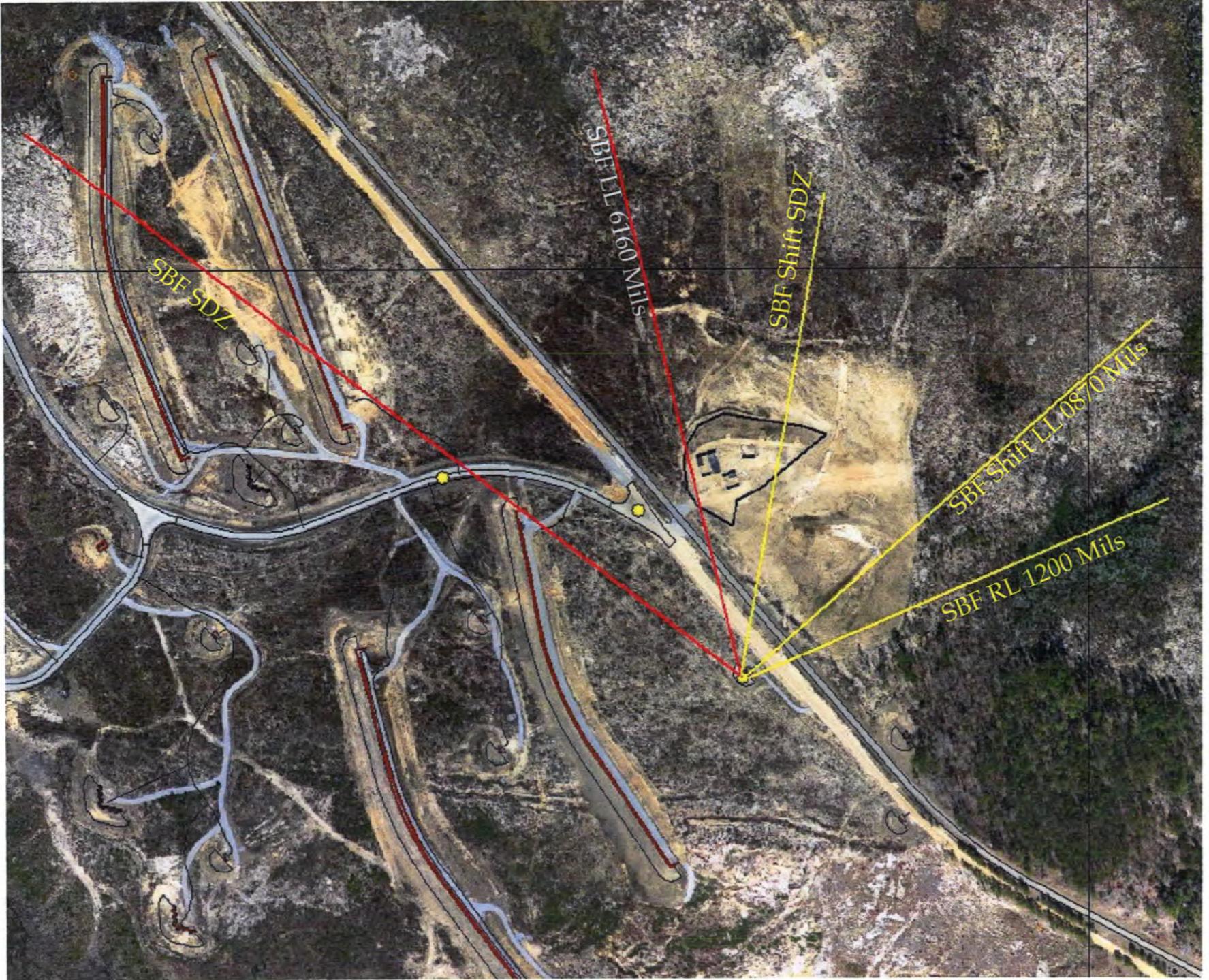


Assault

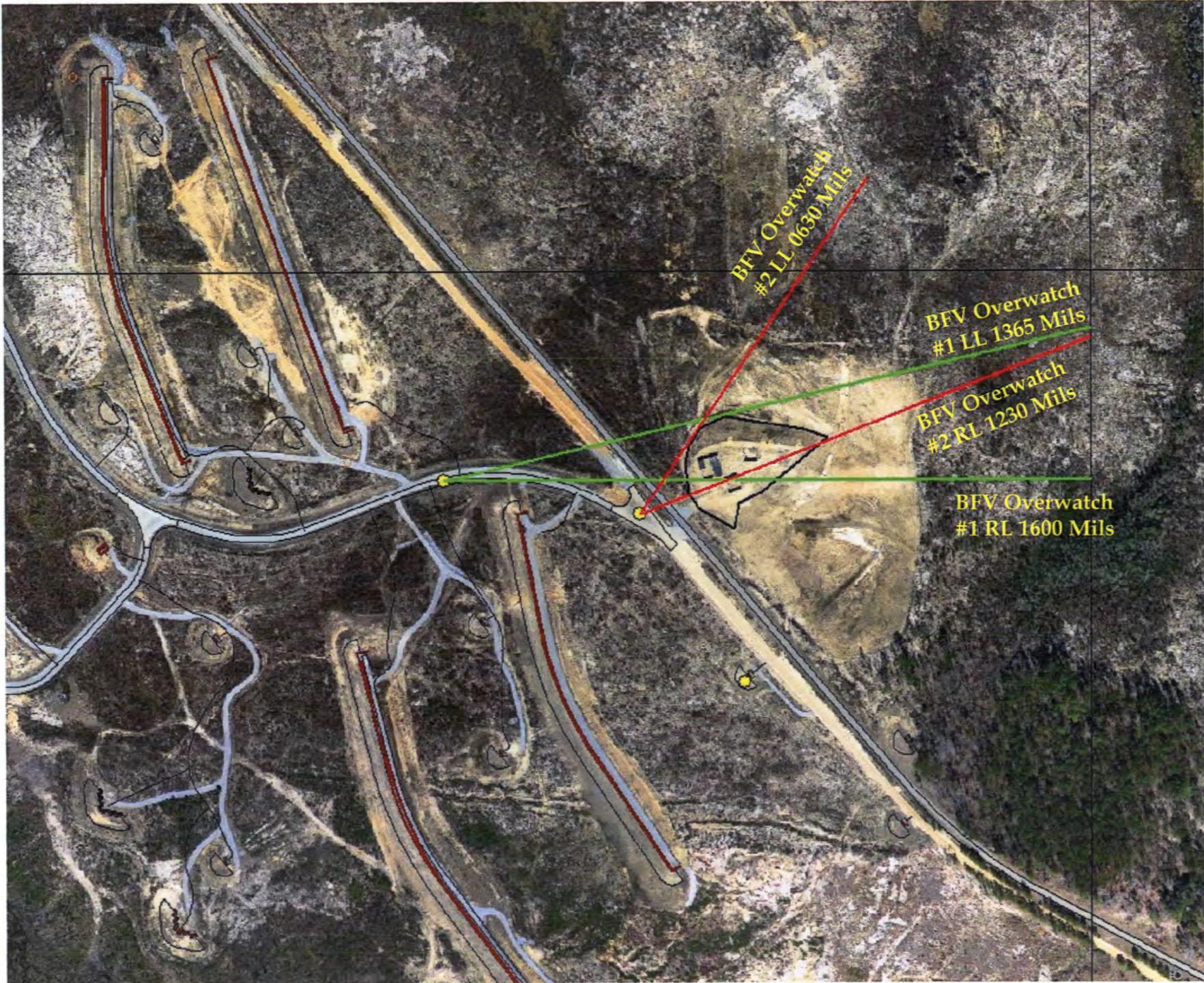
Buena Vista Road

LSBF

SBF







BFV Overwatch
#2 LL 0630 Mils

BFV Overwatch
#1 LL 1365 Mils

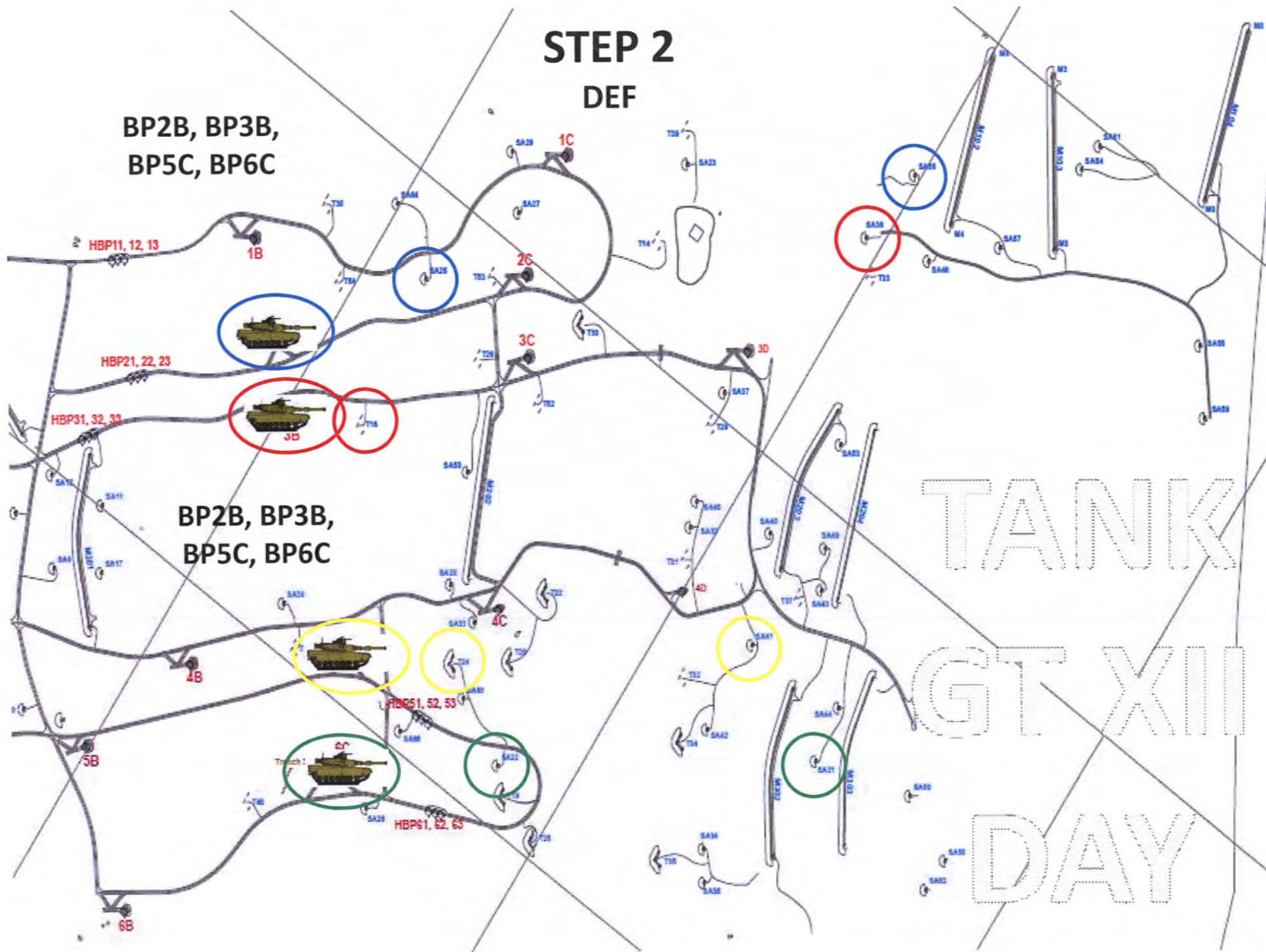
BFV Overwatch
#2 RL 1230 Mils

BFV Overwatch
#1 RL 1600 Mils



STEP 2 DEF

BP2B, BP3B,
BP5C, BP6C



HBP21, 22, 23

HBP31, 32, 33

BP2B, BP3B,
BP5C, BP6C

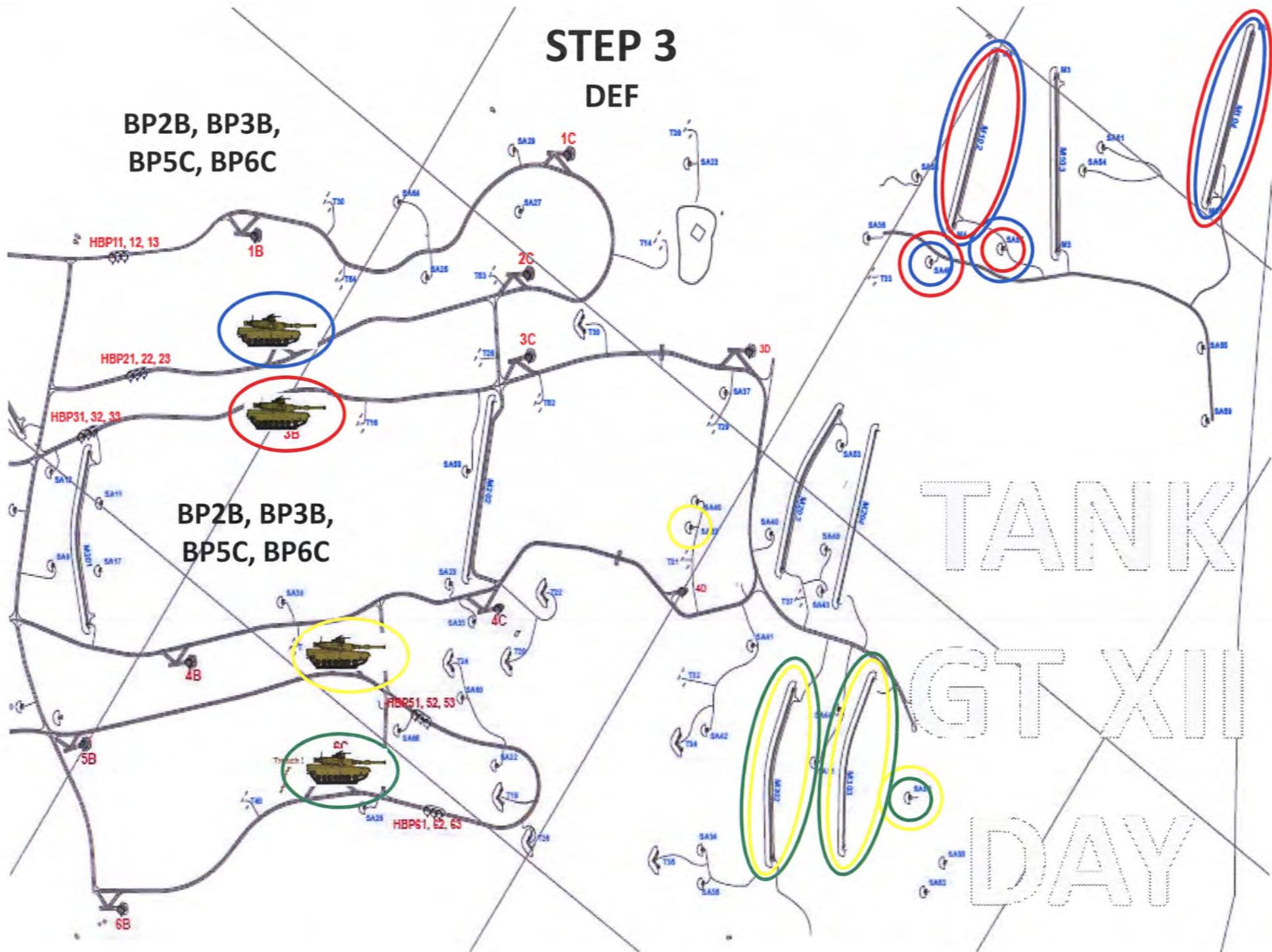
HBP51, 52, 53

HBP61, 62, 63

TANK
GT XII
DAY

STEP 3 DEF

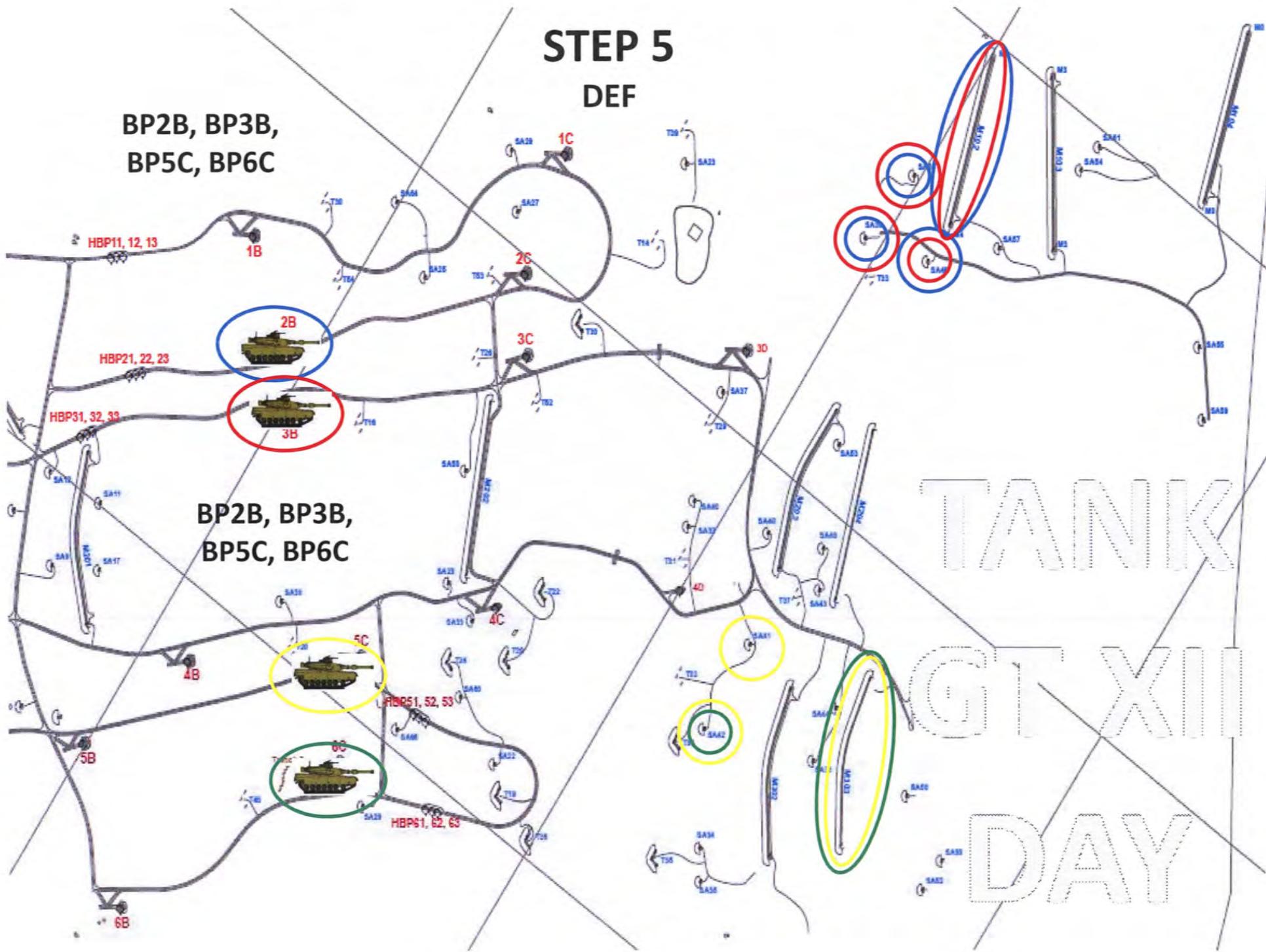
BP2B, BP3B,
BP5C, BP6C



TANK
GT XII
DAY

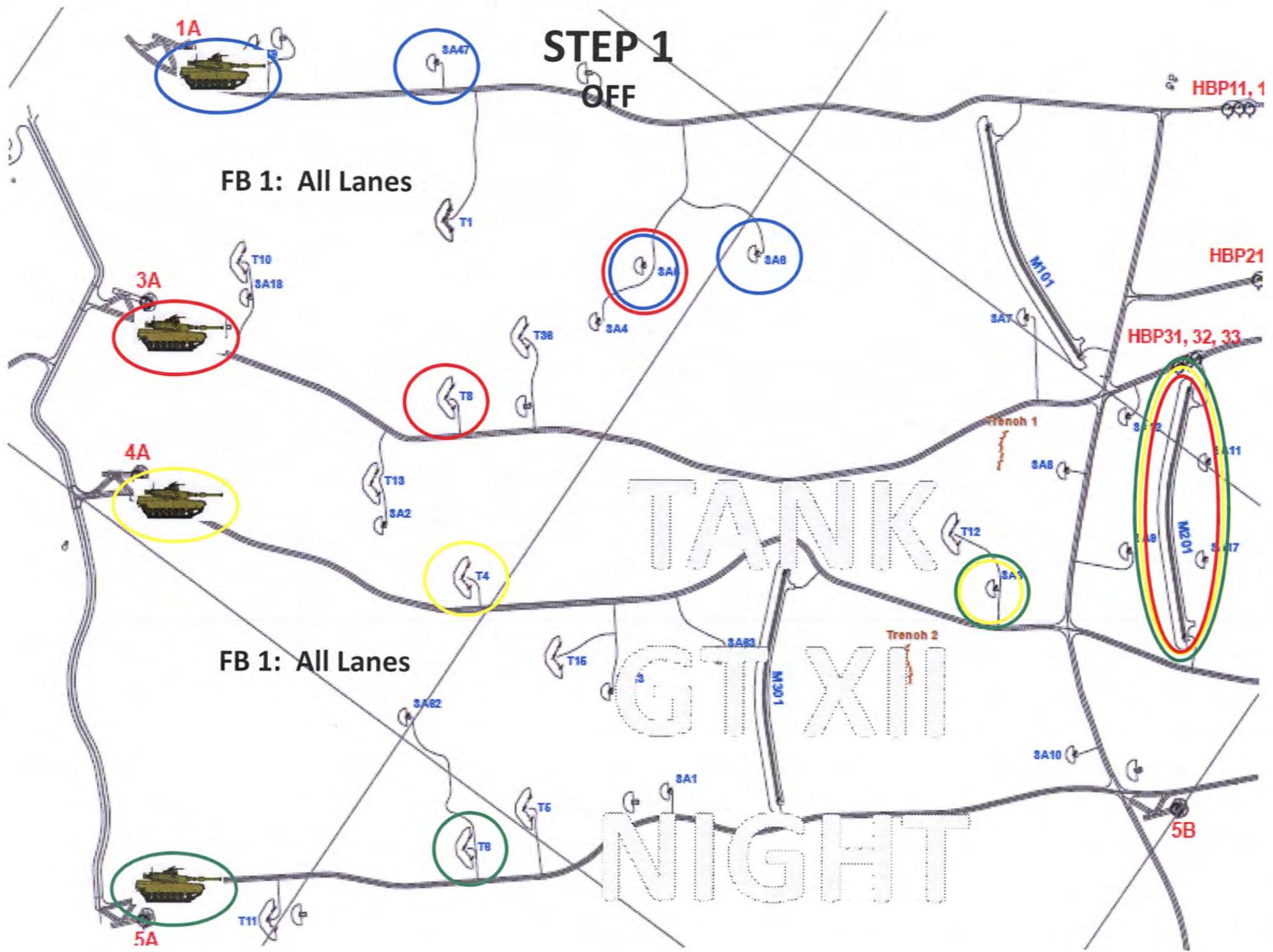
STEP 5 DEF

BP2B, BP3B,
BP5C, BP6C



BP2B, BP3B,
BP5C, BP6C

TANK
GT XII
DAY

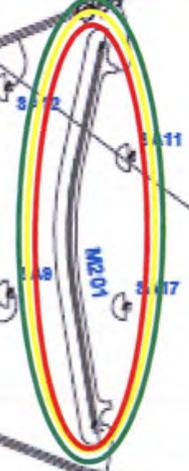


STEP 1
OFF

FB 1: All Lanes

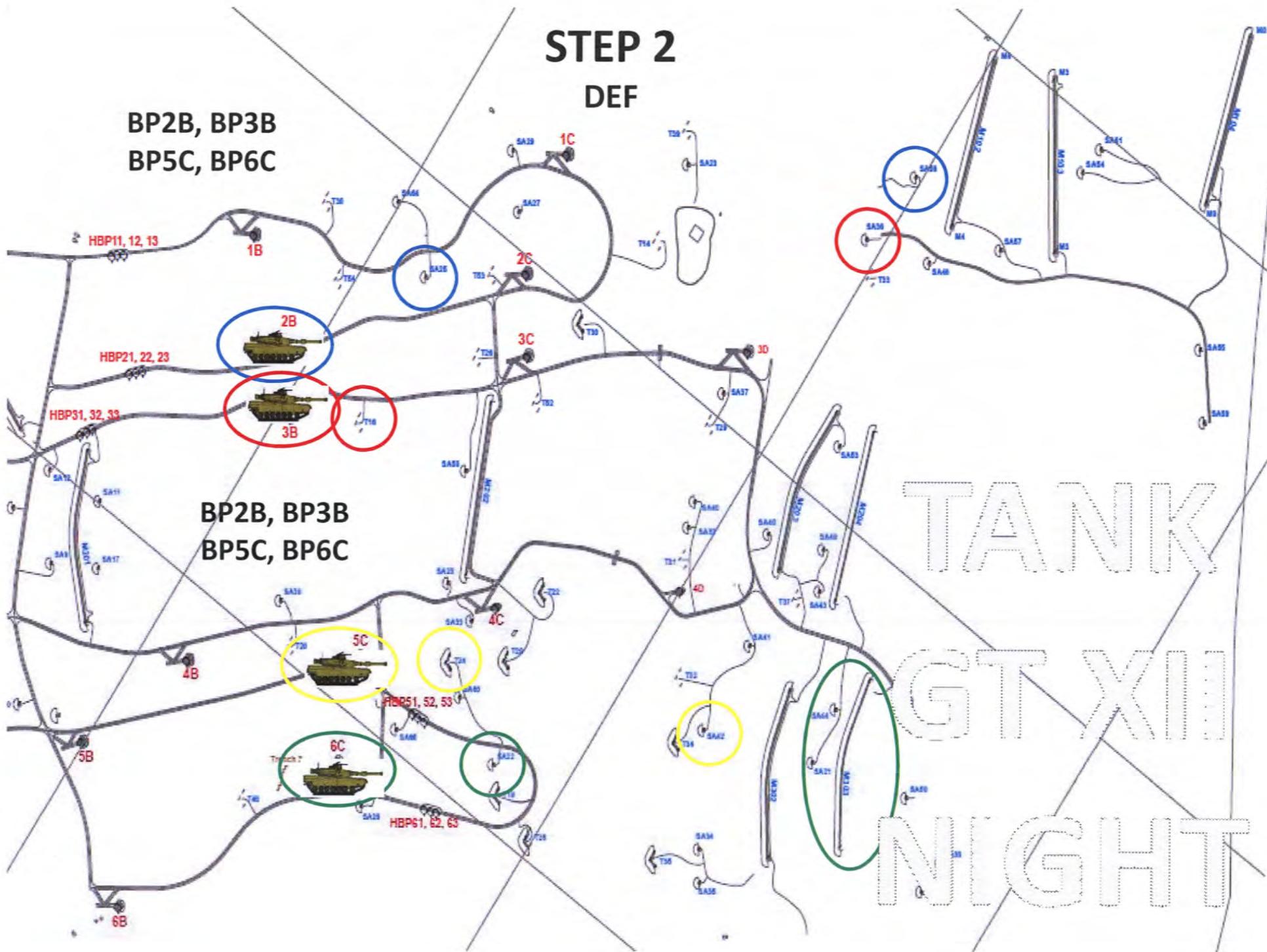
FB 1: All Lanes

TANK
GT XII
NIGHT



STEP 2 DEF

BP2B, BP3B
BP5C, BP6C

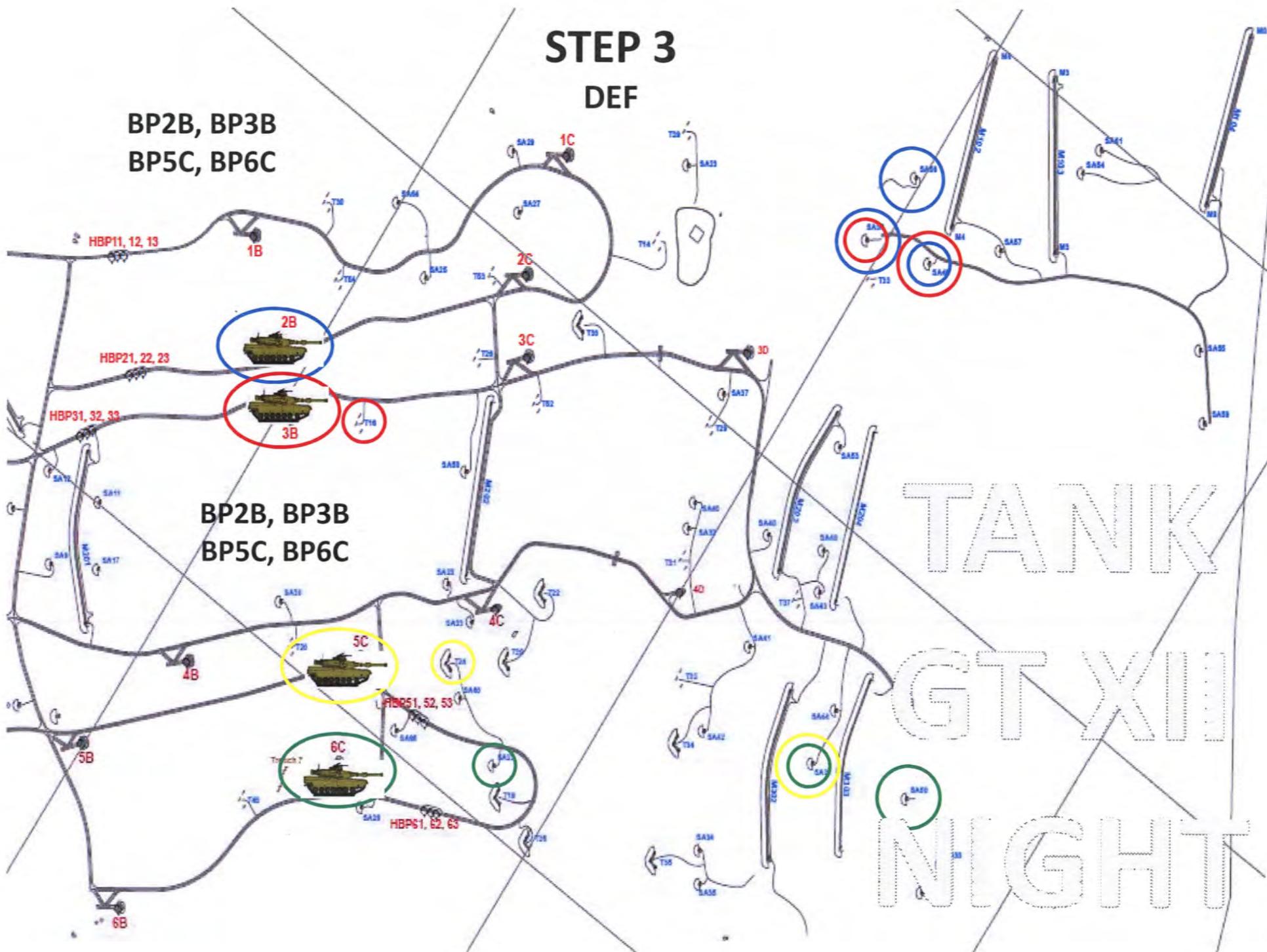


BP2B, BP3B
BP5C, BP6C

TANK
GT XII
NIGHT

STEP 3 DEF

BP2B, BP3B
BP5C, BP6C

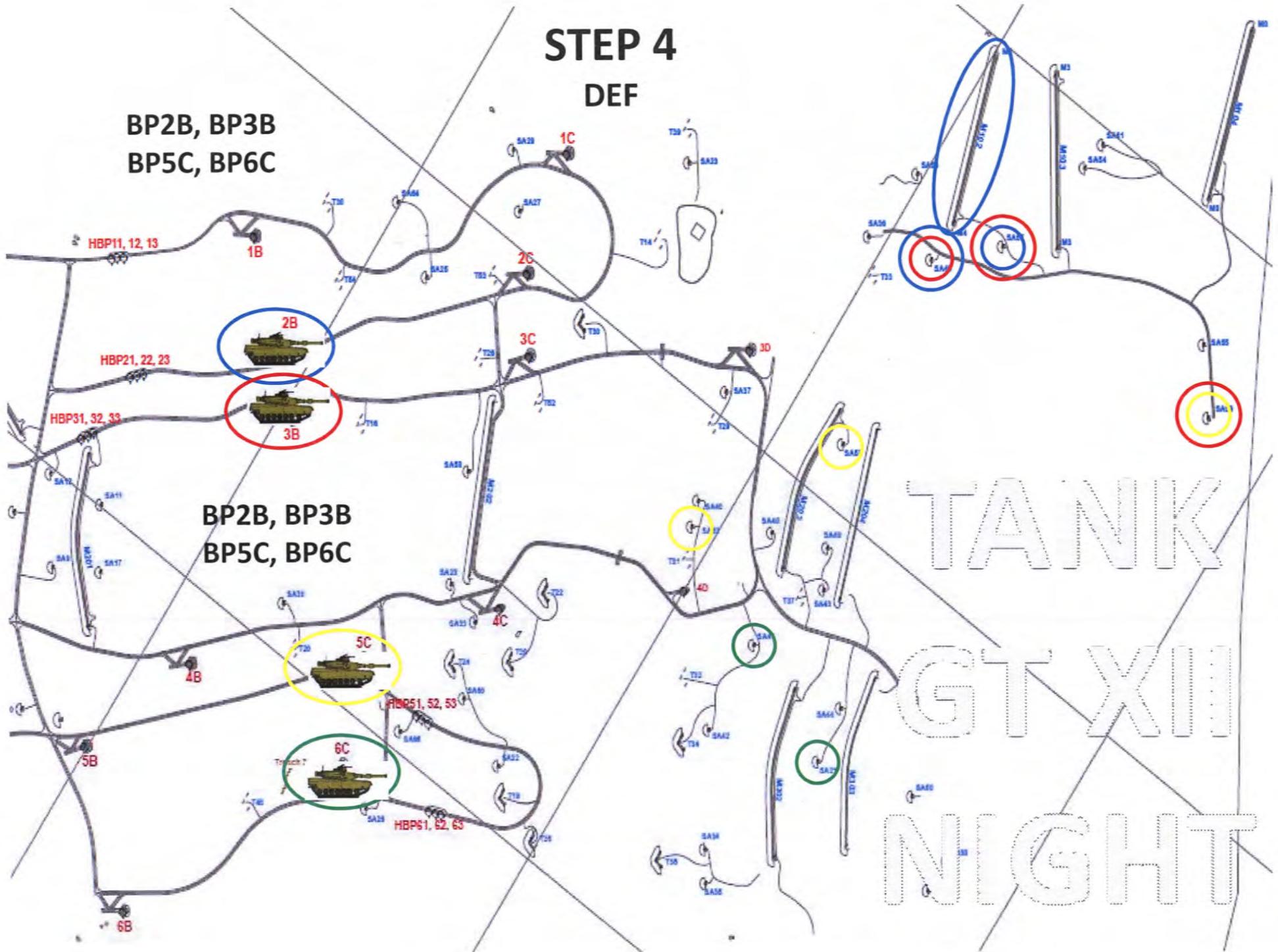


BP2B, BP3B
BP5C, BP6C

TANK
GT XII
NIGHT

STEP 4 DEF

BP2B, BP3B
BP5C, BP6C

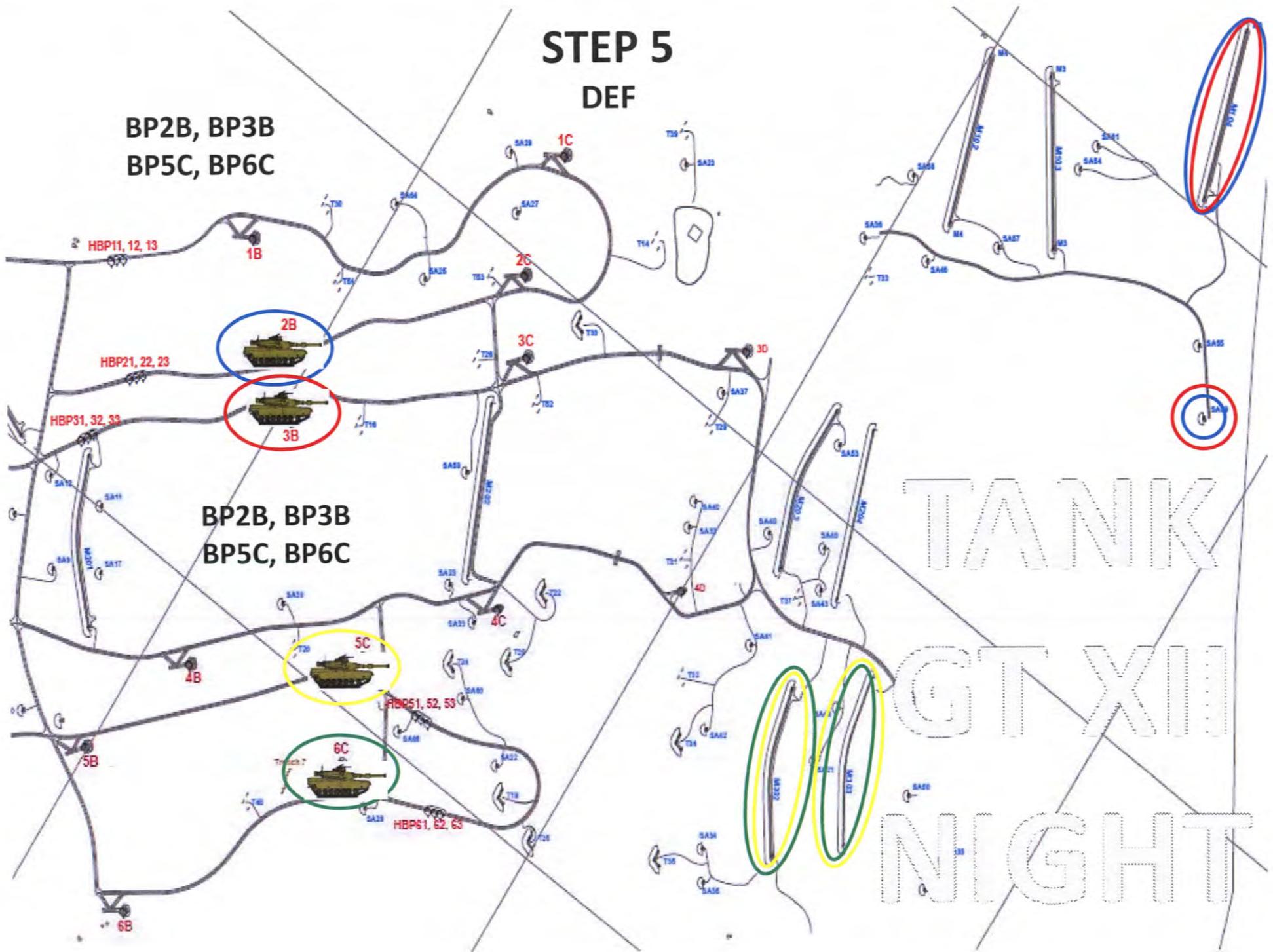


BP2B, BP3B
BP5C, BP6C

TANK
GT XII
NIGHT

STEP 5 DEF

BP2B, BP3B
BP5C, BP6C



BP2B, BP3B
BP5C, BP6C

TANK
GT XII
NIGHT

GT XII INFANTRY PLT QUALIFICATION (DAY)

Ver# 1

OPERATION	COLLECTIVE TASK	VEH LOC	COND	SITUATION	Target Information					TASK STANDARD
					TYPE	TARGET	RANGE	EXPOSURE	AMMO	
OFF	OCCUPY AN ASSEMBLY AREA	AA	MOPP2	PLT receives order from CO to occupy the AA.						
OFF	PREPARE FOR COMBAT	AA	MOPP2	While in AA platoon preps for combat, continues to conduct TLPs.						
OFF	CONDUCT TACTICAL ROAD MARCH	AA to LD	MOPP2	PLT conducts movement towards LD.						
OFF	CONDUCT KEY LEADERS ENGAGEMENT	VIC LD	MOPP2	PLT conducts key leaders engagement with Sheik IOT to gain Intel on OBJ Henry and OBJ Adams						
OFF	CONDUCT A TACTICAL ROAD MARCH	LD to PL AEROSMITH	MOPP2	PL receives LD time. PLT moves out on order.						

GT XII INFANTRY PLT QUALIFICATION (DAY)

Ver# 1

OPERATION	COLLECTIVE TASK	VEH LOC	COND	SITUATION	Target Information					TASK STAND ARD
					TYPE	TARGET	RANGE	EXPOSURE	AMMO	
OFF	CONDUCT MOVEMENT TO CONTACT	PL AEROSMITH	MOPP2	As PLT moves to Vic PL Aerosmith raise step 1. (OFFENSIVE ENGAGEMENT)	TRPS TRPS TRPS TRPS PC PC PC	SA47 T8 T4 T6 SA3 M201 SA5 SA6	380M 467M 498M 475M 1329M 1540M 760M 885M	50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC	COAX COAX COAX COAX TPDS-T TPDS-T TPDS-T TPDS-T	
OFF	CONDUCT TACTICAL MOVEMENTED (DISMOUNTED)	VIC PL BEATLES	MOPP2	As vehicle reach PL Beatles, PLT will drop ramp and dismount the Infantry Squads. Squads will move to OBJ Henry - BFVs will stay online with dismounts.						
OFF	React to contact (DISMOUNTED)	VIC PL CLASH	MOPP2	When dismounts are 400m from OBJ Henry raise step 2. Oc's will ensure all safety measures for dismounts	SQUAD SQUAD SQUAD SQUAD	P1 P2 P3 P4	400M 400M 400M 400M	BOB BOB BOB BOB	5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM	
OFF	React to contact (DISMOUNTED)	VIC PL CLASH	MOPP2	Once dismounts have cleared OBJ Henry raise step 3.	SQUAD SQUAD SQUAD	P5 P6 P7	200M 200M 200M	BOB BOB BOB	5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM	
OFF	React to contact (DISMOUNTED)	VIC PL CLASH	MOPP2	When dismounts are 200m from OBJ Adams raise step 4.	SQUAD SQUAD SQUAD SQUAD SQUAD	P8 P9 P10 P11 P12	300M 300M 300M 300M 300M	BOB BOB BOB BOB BOB	5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM	

GT XII INFANTRY PLT QUALIFICATION (DAY)

Ver# 1

OPERATION	COLLECTIVE TASK	VEH LOC	COND	SITUATION	Target Information					TASK STANDARD
					TYPE	TARGET	RANGE	EXPOSURE	AMMO	
OFF	CONDUCT SUPPORT BY FIRE	BP 2B, 3B, 5C, 6C	MOPP2	As dismounts start to clear OBJ Adams raise step 5. Vehicle's will be given detailed sectors of fire from PL.	TRPS TRPS TRPS TRPS TRUCK TRUCK TRUCK PC	SA25 T16 T24 SA22 SA56 SA36 SA41 SA21	330M 150M 330M 365M 1520M 1425M 940M 1130M	50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC	COAX COAX COAX COAX TP-T TP-T TP-T TPDS-T	
OFF	CONDUCT SUPPORT BY FIRE	BP 2B, 3B, 5C, 6C	MOPP2	Once step 5 is complete raise step 6.	TRUCK TRUCK PC PC PC PC PC PC	SA50 SA57 M102 M104 SA303 SA302 SA32 SA46	1340M 1700M 1665M 2200M 1190M 1055M 970M 1560M	50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC	TP-T TP-T TPDS-T TPDS-T TPDS-T TPDS-T TPDS-T TPDS-T	
OFF	CONDUCT CONSOLIDATIO / REORGANIZATION	PL STONES	MOPP2	Once dismounts are loaded on vehicles PLT moves to PL Stones. Once they reach PL Stones raise step 7.	PC PC PC PC TRPS PC PC PC TRUCK	SA46 M102 SA59 M104 T14 SA42 SA21 SA56	1200M 1330M 1970M 2100M 470M 630M 870M 1150M	50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC	TPDS-T TPDS-T TPDS-T TPDS-T TPDS-T TP-T TPDS-T TP-T	
OFF	CONDUCT PASSAGE OF LINES	BP 2B, 3B, 5C, 6C	MOPP2 TO MOPP4	As vehicles set into BPs "Gas, Gas, Gas" Raise step 8.	PC PC TRUCK TRUCK TRUCK PC PC	SA46 M102 SA36 SA56 SA41 SA42 M303	1535M 1655M 1415M 1565M 930M 830M 1295M	50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC	TPDS-T TPDS-T TP-T TP-T TP-T TPDS-T TPDS-T	

GT XII INFANTRY PLT QUALIFICATION (DAY)

Ver# 1

OPERATION	COLLECTIVE TASK	VEH LOC	COND	SITUATION	Target Information					TASK STANDARD
					TYPE	TARGET	RANGE	EXPOSURE	AMMO	
OFF	CONDUCT A TACTICAL MOVEMENT	PL CLASH TO RTE CUBA	MOPP4 TO MOPP2	All clear is given and PLT locks and clears all weapons, (vehicles and dismounts) PLT moves back to RTE Cuba to conduct follow on missions. PLT will use Course Road one keeping weapons up and down range at all times. Once off the range the PLT will conduct follow on missions.						

GT XII INFANTRY PLT QUALIFICATION (NIGHT)

Ver# 1

OPERATION	COLLECTIVE TASK	VEH LOC	COND	SITUATION	Target Information					TASK STANDARD
					TYPE	TARGET	RANGE	EXPOSURE	AMMO	
DEF	OCCUPY AN ASSEMBLY AREA	AA	MOPP2	PLT receives order from CO to occupy the AA.						
DEF	PREPARE FOR COMBAT	AA	MOPP2	While in AA platoon preps for combat, continues to conduct TLPs.						
DEF	CONDUCT TACTICAL ROAD MARCH	AA to LD	MOPP2	PLT conducts movement towards LD.						
DEF	CONDUCT KEY LEADERS ENGAGEMENT	VIC LD	MOPP2	PLT conducts key leaders engagement with Sheik IOT to gain Intel on OBJ Henry and OBJ Adams						
DEF	CONDUCT A TACTICAL ROAD MARCH	LD to PL AEROSMITH	MOPP2	PL receives LD time. PLT moves out on order.						

GT XII INFANTRY PLT QUALIFICATION (NIGHT)

Ver# 1

OPERATION	COLLECTIVE TASK	VEH LOC	COND	SITUATION	Target Information					TASK STAND ARD
					TYPE	TARGET	RANGE	EXPOSURE	AMMO	
DEF	Conduct Movement to Contact	LD to PL	MOPP@	As PLT moves to Vic PL Aerosmith, Raise Step 1 (OFF ENGAGEMENT)	TRPS TRPS TRPS TRPS PC PC PC PC	SA47 T8 T4 T6 SA3 M201 SA5 SA6	380M 467M 498M 475M 1329M 1540M 760M 885M	50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC	COAX COAX COAX COAX TPDS-T TPDS-T TPDS-T TPDS-T	
DEF	React to contact (DISMOUNTED)	VIC PL CLASH	MOPP2	When dismounts are 400m from OBJ Henry raise step 2.	SQUAD SQUAD SQUAD SQUAD	P1 P2 P3 P4	400M 400M 400M 400M	BOB BOB BOB BOB	5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM	
DEF	React to contact (DISMOUNTED)	VIC PL CLASH	MOPP2	Once dismounts have cleared OBJ Henry raise step 3.	SQUAD SQUAD SQUAD	P5 P6 P7	200M 200M 200M	BOB BOB BOB	5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM	
DEF	React to contact (DISMOUNTED)	VIC PL CLASH	MOPP2	When dismounts are 200m from OBJ Adams raise step 4.	SQUAD SQUAD SQUAD SQUAD	P8 P9 P10 P11 P12	300M 300M 300M 300M 300M	BOB BOB BOB BOB BOB	5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM	
DEF	Conduct Over watch and Support by fire	PL (BP 2B, 3B, 5C, 6C)	MOPP2	As dismounts move to OBJ Adams, Vehicles will move to SBF positions, Once vehicles set into position raise step 5.	TRPS TRPS TRPS TRPS PC PC TRUCK TRUCK	SA25 T16 T24 SA22 SA42 M303 SA56 SA36	330M 150M 330M 365M 830M 1195M 1520M 1425M	50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC	COAX COAX COAX COAX TPDS-T TPDS-T TP-T TP-T	

GT XII INFANTRY PLT QUALIFICATION (NIGHT)

Ver# 1

OPERATION	COLLECTIVE TASK	VEH LOC	COND	SITUATION	Target Information					TASK STANDARD
					TYPE	TARGET	RANGE	EXPOSURE	AMMO	
DEF	Conduct a Defense	BP 2B, 3B, 5C, 6C)	MOPP2 TO MOPP4	."GAS,GAS,GAS" Once step 5 is complete raise step 6. (NBC DEFENSIVE ENGAGEMENT)	TRPS TRPS TRPS TRUCK TRUCK TRUCK PC PC	T24 T16 SA22 SA36 SA56 SA50 SA46 SA21	200M 140M 370M 1385M 1530M 1375M 1570M 1100M	50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC	COAX COAX COAX TP-T TP-T TPDS-T TPDS-T TPDS-T	
DEF	Conduct a Defense	BP 2B, 3B, 5C,6C.	MOPP4 TO MOPP2	All clear is given. Once step 6 is complete raise step 7.	PC PC PC PC PC PC TRUCK	M102 SA46 SA57 SA59 SA32 SA41 SA21 SA53	1645M 1535M 1710M 2175M 825M 930M 1130M 1360M	50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC	TPDS-T TPDS-T TPDS-T TPDS-T TPDS-T TPDS-T TPDS-T TP-T	
DEF	Conduct a Defense	BP 2B, 3B, 5C,6C.	MOPP2	Once step 7 is complete, Raise step 8	TRUCK TRUCK TRUCK TRUCK	SA36 SA56 M104 SA50 SA53	1390M 1535M 2290M 1335M 1360M	50 SEC 50 SEC 50 SEC 50 SEC 50 SEC	TP-T TP-T TP-T TP-T TP-T	
OFF	CONDUCT A TACTICAL MOVEMENT	PL CLASH TO RTE CUBA	MOPP4 TO MOPP2	Once all step is complete. PLT locks and clears all weapons, moves back to RTE Cuba to conduct follow on missions.						

GT XII INFANTRY PLT QUALIFICATION (NIGHT)

Ver# 1

OPERATION	COLLECTIVE TASK	VEH LOC	COND	SITUATION	Target Information					TASK STANDARD
					TYPE	TARGET	RANGE	EXPOSURE	AMMO	
DEF	CONDUCT A MEDIA ENGAGEMENT	RTE CUBA	MOPP2	PLT conducts media engagement.						

GT-XII

INFANTRY PLT QUALIFICATION- Day

Ver# 2

Operati on	Collective Task	Veh Loc	Cond	Situation	Target Information					Task Standard
					Type	Tgt	Rng	Exp	Ammo	
OFF	OCCUPY AA	AA	MOPP2	Platoon receives order from CO to occupy the AA. Platoon Occupies AA.						
	CONDUCT TLPs	AA	MOPP2	While in AA platoon prepares for combat. Ensure Key Leaders provide direction and purpose to subordinates.						
	CONDUCT A TACTICAL MOVEMENT	AA TO LD	MOPP2	PLT conducts movement towards LD.						
	CONDUCT A DEFENSE	LD (BP1A, BP3A, BP4A, BP5A)	MOPP2	PLT will occupy BP 1A, 3A, 4A & 5A. Vehicles will cycle their ghost rounds the PL and/ or PSG reports Redcon 1 and prepares for movement after receiving Intel from higher HQs.						

GT-XII

Platoon Qualification- Day

Ver# 2

Operat ion	Collective Task	Veh Loc	Cond	Situation	Target Information					Task Standard
					Type	Tgt	Rng	Exp	Ammo	
OFF	CONDUCT A MOVEMENT TO CONTACT	LD TO PL 1	MOPP2	PL and/ or PSG will report FLT and gives the command to start movement towards PL Pearl Jam. Once PLT begins their movemet towards PL Pearl Jam Raise Step 1.	TRPS TRPS TRPS TRPS PC PC PC PC	SA47 T8 T4 T6 SA3 M201 SA5 SA6	380M 467M 498M 475M 1329M 1540M 760M 885M	50SEC 50SEC 50SEC 50SEC 50SEC 50SEC 50SEC 50SEC	COAX COAX COAX COAX TPDS-T TPDS-T TPDS-T TPDS-T	
	CONDUCT TACTICAL MOVEMENT (DISMOUNTED)	VIC PL 1	MOPP2	Once PLT crosses PL Pearl Jam . Dismount will exit vehicles and link up with key personnel on the ground before they begin movement. Once link up is made and dismounts begins movement towards PL 1, Raise Step 2.	SQUAD SQUAD SQUAD SQUAD	I1 I2 I3 I4	250M 250M 250M 250M	50SEC 50 SEC 50SEC 50SEC	5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM	
	CONDUCT OVER-WATCH and SUPPORT BY FIRE	PL 1 TO PL 2	MOPP2	Vehicles will provide Overwatch and SBF for dismounts during their movement towards the IV Line, OBJ 1 and OBJ 2.						

GT-XII

Platoon Qualification- Day

Ver# 2

Operation	Collective Task	Veh Loc	Cond	Situation	Target Information					Task Standard
					Type	Tgt	Rng	Exp	Ammo	
OFF	CONDUCT ACTIONS ON CONTACT	PL 2	MOPP2	Dismounts will begin their movement to enter and clear OBJ 1. Once dismounts are approximately 400M from OBJ 1, Raise Step 3. OC's and Safety personnel will ensure that the various elements are being constantly monitored.	SQUAD SQUAD SQUAD SQUAD	P1 P2 P3 P4	400M 400M 400M 400M	BOB BOB BOB BOB	5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM	
	CONDUCT OVERWATCH AND SUPPORT BY FIRE	PL 3	MOPP2	Once the PSG and/or PL reports to higher that OBJ 1 has been cleared, BFV's will move online with dismounts Vic PL 2 and provide support by fire. Once Vehicles are set in their SBF positions, Raise Step 4.	SQUAD SQUAD SQUAD TRUCK TRUCK PC PC	P5 P6 P7 SA56 SA36 M102 SA32	200M 200M 200M 1520M 1425M 1665M 970M	BOB BOB BOB 50SEC 50SEC 50SEC 50SEC	5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM TP-T TP-T TPDS-T TPDS-T	
	CONDUCT ACTIONS ON CONTACT	PL 3 TO PL 4	MOPP2	After targets from Step 4 has been destroyed, dismounts will re-group and continue their movement unto OBJ 2 (Guidance from Higher). Once dismounts begin their movement and are approximately 200M from OBJ 2, Raise Step 5.	SQUAD SQUAD SQUAD SQUAD SQUAD	P8 P9 P10 P11 P12	300M 300M 300M 300M 300M	BOB BOB BOB BOB BOB	5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM	
	CONDUCT OVERWATCH AND SUPPORT BY FIRE	PL 4 (BP2B, 3B, 5B & 6B)	MOPP2	Once the PSG and/or PL reports to higher that OBJ 2 has been cleared, BFV's will move online with dismounts Vic PL 3 and provide Overwatch and Support by fire. Once BFV's are set in their SBF positions, Raise Step 6. (Vehicles will be given detailed sectors of fire from PL)	TRPS TRPS TRPS TRPS TRUCK TRUCK TRUCK PC	SA25 T16 T24 SA22 SA56 SA36 SA41 SA21	330M 150M 330M 365M 1520M 1425M 940M 1130M	50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC	COAX COAX COAX COAX TP-T TP-T TP-T TPDS-T	

GT-XII Platoon Qualification- Day

Ver# 2

Operat ion	Collective Task	Veh Loc	Cond	Situation	Target Information					Task Standard
					Type	Tgt	Rng	Exp	Ammo	
OFF	CONDUCT A DEFENSE	PL 4 (BP2B, 3B, 5B & 6B)	MOPP2	Once targets from Step 6 has been destroyed, Raise Step 7.	TRUCK TRUCK PC PC PC PC PC PC PC	SA50 SA57 M102 M104 SA303 SA302 SA32 SA46	1340M 1700M 1665M 2200M 1190M 1055M 970M 1560M	50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC	TP-T TP-T TPDS-T TPDS-T TPDS-T TPDS-T TPDS-T TPDS-T	
	CONSOLIDATE AND REORGANIZE	PL 4	MOPP2 TO MOPP4	Dismounts will move to and remount their appointed vehicles. (Leaders will report their MWE status* to the PSG and/or PL). After all vehicles have raised their ramps, "GAS, GAS, GAS". 2 Minutes after reporting CBRN, Raise Step 8.	PC PC PC PC TRPS PC PC TRUCK	SA46 M102 SA59 M104 T14 SA42 SA21 SA56	1200M 1330M 1970M 2100M 470M 630M 870M 1150M	50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC	TPDS-T TPDS-T TPDS-T TPDS-T TPDS-T TP-T TPDS-T TP-T	
	CONDUCT A MOVEMENT TO CONTACT	PL 4 TO LOA	MOPP4	Vehicles will move along their current route from PL 3 to LOA. Once at the LOA Raise Step 9.	PC PC TRUCK TRUCK TRUCK PC PC	SA46 M102 SA36 SA56 SA41 SA42 M303	1535M 1655M 1415M 1565M 930M 830M 1295M	50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC	TPDS-T TPDS-T TP-T TP-T TP-T TPDS-T TPDS-T	
	INTEGRATE IDF SUPPORT	LOA to PL 2	MOPP4 TO MOPP2	Once targets for Step 9 has been destroyed and/or complete, "ALL CLEAR, ALL CLEAR, ALL CLEAR". 2 Minutes after the all clear has been given, Raise Step 10.	TANKS TANKS TANKS TANKS					

GT-XII

INFANTRY PLT QUALIFICATION- Night

Ver# 2

Operati on	Collective Task	Veh Loc	Cond	Situation	Target Information					Task Standard
					Type	Tgt	Rng	Exp	Ammo	
DEF	OCCUPY AA	AA	MOPP2	Platoon receives order from CO to occupy the AA. Platoon Occupies AA.						
	CONDUCT TLPs	AA	MOPP2	While in AA platoon prepares for combat. Ensure Key Leaders provide direction and purpose to subordinates.						
	CONDUCT A TACTICAL MOVEMENT	AA TO LD	MOPP2	PLT conducts movement towards LD.						
	CONDUCT A DEFENSE	LD (BP1A, BP3A, BP4A, BP5A)	MOPP2	PLT will occupy BP 1A, 3A, 4A & 5A. Vehicles will cycle their ghost rounds the PL and/ or PSG reports Redcon 1 and prepares for movement after receiving Intel from higher HQs.						

GT-XII

Platoon Qualification- Night

Ver# 2

Operat ion	Collective Task	Veh Loc	Cond	Situation	Target Information					Task Standard
					Type	Tgt	Rng	Exp	Ammo	
DEF	CONDUCT A MOVEMENT TO CONTACT	LD TO PL 1	MOPP2	PL and/ or PSG will report FLT and gives the command to start movement towards PL Pearl Jam. Once PLT begins their movemet towards PL Pearl Jam Raise Step 1.	TRPS TRPS TRPS TRPS PC PC PC PC	SA47 T8 T4 T6 SA3 M201 SA5 SA6	380M 467M 498M 475M 1329M 1540M 760M 885M	50SEC 50SEC 50SEC 50SEC 50SEC 50SEC 50SEC 50SEC	COAX COAX COAX COAX TPDS-T TPDS-T TPDS-T TPDS-T	
	CONDUCT TACTICAL MOVEMENT (DISMOUNTED)	VIC PL 1	MOPP2	Once PLT crosses PL Pearl Jam . Dismount will exit vehicles and link up with key personnel on the ground before they begin movement. Once link up is made and dismounts begins movement towards PL 1, Raise Step 2.	SQUAD SQUAD SQUAD SQUAD	I1 I2 I3 I4	250M 250M 250M 250M	50SEC 50 SEC 50SEC 50SEC	5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM 5.56MM/7.62MM	
	CONDUCT OVER-WATCH and SUPPORT BY FIRE	PL 1 TO PL 2	MOPP2	Vehicles will provide Overwatch and SBF for dismounts during their movement towards the IV Line, OBJ 1 and OBJ 2.						

GT-XII

Platoon Qualification- Night

Ver# 2

Operation	Collective Task	Veh Loc	Cond	Situation	Target Information					Task Standard
					Type	Tgt	Rng	Exp	Ammo	
DEF	CONDUCT ACTIONS ON CONTACT	PL 2	MOPP2	Dismounts will begin their movement to enter and clear OBJ 1. Once dismounts are approximately 400M from OBJ 1, Raise Step 3. OC's and Safety personnel will ensure that the various elements are being constantly monitored.	SQUAD	P1	400M	BOB	5.56MM/7.62MM	
					SQUAD	P2	400M	BOB	5.56MM/7.62MM	
					SQUAD	P3	400M	BOB	5.56MM/7.62MM	
					SQUAD	P4	400M	BOB	5.56MM/7.62MM	
	CONDUCT OVERWATCH AND SUPPORT BY FIRE	PL 3	MOPP2	Once the PSG and/or PL reports to higher that OBJ 1 has been cleared, BFV's will move online with dismounts Vic PL 2 and provide support by fire. Once Vehicles are set in their SBF positions, Raise Step 4.	SQUAD	P5	200M	BOB	5.56MM/7.62MM	
					SQUAD	P6	200M	BOB	5.56MM/7.62MM	
					SQUAD	P7	200M	BOB	5.56MM/7.62MM	
					TRUCK	SA56	1520M	50SEC	TP-T	
					TRUCK	SA36	1425M	50SEC	TP-T	
					PC	M102	1665M	50SEC	TPDS-T	
PC	SA32	970M	50SEC	TPDS-T						
	CONDUCT ACTIONS ON CONTACT	PL 3 TO PL 4	MOPP2	After targets from Step 4 has been destroyed, dismounts will re-group and continue their movement unto OBJ 2 (Guidance from Higher). Once dismounts begin their movement and are approximately 200M from OBJ 2, Raise Step 5.	SQUAD	P8	300M	BOB	5.56MM/7.62MM	
					SQUAD	P9	300M	BOB	5.56MM/7.62MM	
					SQUAD	P10	300M	BOB	5.56MM/7.62MM	
					SQUAD	P11	300M	BOB	5.56MM/7.62MM	
					SQUAD	P12	300M	BOB	5.56MM/7.62MM	
	CONDUCT OVERWATCH AND SUPPORT BY FIRE	PL 4 (BP2B, 3B, 5B & 6B)	MOPP2	Once the PSG and/or PL reports to higher that OBJ 2 has been cleared, BFV's will move online with dismounts Vic PL 3 and provide Overwatch and Support by fire. Once BFV's are set in their SBF positions, Raise Step 6. (Vehicles will be given detailed sectors of fire from PL)	TRPS	SA25	330M	50 SEC	COAX	
					TRPS	T16	150M	50 SEC	COAX	
					TRPS	T24	330M	50 SEC	COAX	
					TRPS	SA22	365M	50 SEC	COAX	
					PC	SA42	830M	50 SEC	TPDS-T	
					PC	M303	1195M	50 SEC	TPDS-T	
					TRUCK	SA56	1520M	50 SEC	TP-T	
					TRUCK	SA36	1426M	50 SEC	TP-T	

GT-XII Platoon Qualification- Night

Ver# 2

Operation	Collective Task	Veh Loc	Cond	Situation	Target Information					Task Standard
					Type	Tgt	Rng	Exp	Ammo	
DEF	CONDUCT A DEFENSE	PL 4 (BP2B, 3B, 5B & 6B)	MOPP2	Once targets from Step 6 has been destroyed, Raise Step 7.	TRPS TRPS TRPS TRUCK TRUCK TRUCK PC PC	T24 T16 SA22 SA36 SA56 SA50 SA46 SA21	200M 140M 370M 1385M 1530M 1375M 1570M 1100M	50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC	COAX COAX COAX TP-T TP-T TPDS-T TPDS-T TPDS-T	
	CONSOLIDATE AND REORGANIZE	PL 4	MOPP2 TO MOPP4	Dismounts will move to and remount their appointed vehicles. (Leaders will report their MWE status' to the PSG and/or PL). After all vehicles have raised their ramps, "GAS, GAS, GAS". 2 Minutes after reporting CBRN, Raise Step 8.	PC PC PC PC PC PC PC TRUCK	M102 SA46 SA57 SA59 SA32 SA41 SA21 SA53	1645M 1535M 1710M 2175M 825M 930M 1130M 1360M	50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC	TPDS-T TPDS-T TPDS-T TPDS-T TPDS-T TPDS-T TPDS-T TP-T	
	CONDUCT A MOVEMENT TO CONTACT	PL 4 TO LOA	MOPP4	Vehicles will move along their current route from PL 3 to LOA. Once at the LOA Raise Step 9.	TRUCK TRUCK TRUCK TRUCK TRUCK	SA36 SA56 M104 SA50 SA53	1390M 1535M 2290M 1335M 1360M	50 SEC 50 SEC 50 SEC 50 SEC 50 SEC	TP-T TP-T TP-T TP-T TP-T	
	INTEGRATE IDF SUPPORT	LOA to PL 2	MOPP4 TO MOPP2	Once targets for Step 9 has been destroyed and/or complete, "ALL CLEAR, ALL CLEAR, ALL CLEAR". 2 Minutes after the all clear has been given, Raise Step 10.	TANKS TANKS TANKS TANKS					

GT XII TANK PLT QUALIFICATION (DAY)

OPERATION	COLLECTIVE TASK	VEH LOC	COND	SITUATION	Target Information					TASK STANDARD
					TYPE	TARGET	RANGE	EXPOSURE	AMMO	
OFF	OCCUPY AN ASSEMBLY AREA	AA	MOPP2	Platoon receives order from CO to occupy AA						
OFF	PREPARE FOR COMBAT	AA	MOPP2	While in AA Platoon preps for combat watch key leaders to ensures they provide direction and purpose to subordinates						
OFF	CONDUCT TACTICAL ROAD MARCH	AA to LD	MOPP2	PLT move to LD.						
OFF	CONDUCT KEY LEADERS ENGAGEMENT	VIC LD	MOPP2	PLT conducts Key Leader Engagement with Sheik vic LD IOT Gain Intel on OBJ Henry/OBJ Adams						
OFF	CONDUCT TACTICAL ROAD MARCH	LD to PL 1	MOPP2	PL will receive LD time from CO. PLT starts movement to OBJ 1.						

GT XII TANK PLT QUALIFICATION (DAY)

OPERATION	COLLECTIVE TASK	VEH LOC	COND	SITUATION	Target Information					TASK STANDARD
					TYPE	TARGET	RANGE	EXPOSURE	AMMO	
OFF	CONDUCT A DEFENSE	BP 2B, 3B, 5C, 6C	MOPP 2 TO MOPP4	As PLT sets into position "GAS, GAS, GAS" Raise step(SHORT HALT) 5.	PC TANK TANK PC TRUCK PC TANK	SA46 M102 SA36 SA56 SA41 SA42 M303	1535M 1655M 1415M 1565M 930M 830M 1295M	50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC 50 SEC	HEAT HEAT HEAT HEAT 50 CAL HEAT HEAT	
OFF	CONDUCT A TACTICAL MOVEMENT	BP 2B, 3B, 5C, 6C TO RTE CUBA	MOPP4 TO MOPP2	All clear is given and PLT locks and clears all weapons, moves back to RTE Cuba to conduct follow on missions.						

GT XII TANK PLT QUALIFICATION (NIGHT)

OPERATION	COLLECTIVE TASK	VEH LOC	COND	SITUATION	Target Information					TASK STANDARD
					TYPE	TARGET	RANGE	EXPOSURE	AMMO	
DEF	OCCUPY AN ASSEMBLY AREA	AA	MOPP2	Platoon receives order from CO to occupy AA						
DEF	PREPARE FOR COMBAT	AA	MOPP2	While in AA Platoon preps for combat watch key leaders to ensure they provide direction and purpose to subordinates						
DEF	CONDUCT TACTICAL ROAD MARCH	AA to LD	MOPP2	PLT move to LD.						
DEF	CONDUCT KEY LEADERS ENGAGEMENT	VIC LD	MOPP2	PLT conducts Key Leader Engagement with Sheik vic LD IOT Gain Intel on OBJ Henry/OBJ Adams						
DEF	CONDUCT TACTICAL ROAD MARCH	LD to PL 1	MOPP2	PL will receive LD time from CO. PLT starts movement to OBJ 1.						

GT XII TANK PLT QUALIFICATION (NIGHT)

OPERATION	COLLECTIVE TASK	VEH LOC	COND	SITUATION	Target Information					TASK STANDARD
					TYPE	TARGET	RANGE	EXPOSURE	AMMO	
DEF	CONDUCT MOVEMENT TO CONTACT	LD to PL 1	MOPP2	As PLT moves to Vic PL Aerosmith, Raise Step 1 (OFFENSIVE ENGAGEMENT)	TRPS	SA47	380M	50 SEC	COAX	
					TRPS	T8	467M	50 SEC	COAX	
					TRPS	T4	498M	50 SEC	COAX	
					TRPS	T6	475M	50 SEC	COAX	
					PC	SA3	1329M	50 SEC	HEAT	
					PC	M201	1540M	50 SEC	HEAT	
					PC	SA5	760M	50 SEC	HEAT	
					PC	SA6	885M	50 SEC	HEAT	
DEF	CONDUCT DEFENSE	PL (BP2B, 3B, 5C, 6C)	MOPP2	After PLT gets set in position, Raise Step 2. (DEFENSIVE ENGAGEMENT)	TRPS	SA25	330M	50 SEC	COAX	
					TRPS	T16	150M	50 SEC	COAX	
					TRPS	T24	330M	50 SEC	COAX	
					TRPS	SA22	365M	50 SEC	COAX	
					PC	SA42	830M	50 SEC	HEAT	
					TANK	M303	1195M	50 SEC	HEAT	
					TRUCK	SA56	1520M	50 SEC	CAL 50	
					TRUCK	SA36	1425M	50 SEC	CAL50	
DEF	CONDUCT DEFENSE	BP 2B, 3B, 5C, 6C.	MOPP2 TO MOPP4	After PLT gets set into BP, "GAS, GAS, GAS" Raise Step 3. (DEFENSIVE ENGAGEMENT)	TRPS	T24	200M	50 SEC	COAX	
					TRPS	T16	140M	50 SEC	COAX	
					TRPS	SA22	370M	50 SEC	COAX	
					TRUCK	SA36	1385M	50 SEC	CAL 50	
					TRUCK	SA56	1530M	50 SEC	CAL 50	
					TANK	SA50	1375M	50 SEC	HEAT	
					TANK	SA46	1570M	50 SEC	HEAT	
					TANK	SA21	1100M	50 SEC	HEAT	

GT XII TANK PLT QUALIFICATION (NIGHT)

OPERATION	COLLECTIVE TASK	VEH LOC	COND	SITUATION	Target Information					TASK STANDARD
					TYPE	TARGET	RANGE	EXPOSURE	AMMO	
DEF	CONDUCT DEFENSE	BP 2B, 3B, 5C, 6C.	MOPP4 TO MOPP2	ALL CLEAR! Once step 3 is complete raise step 4	TANK	M102	1645M	50 SEC	HEAT	
					TANK	SA46	1535M	50 SEC	HEAT	
					TANK	SA57	1710M	50 SEC	HEAT	
					TANK	SA59	2175M	50 SEC	HEAT	
					TANK	SA32	825M	50 SEC	HEAT	
					TANK	SA41	930M	50 SEC	HEAT	
					TANK	SA21	1130M	50 SEC	HEAT	
					TANK	SA53	1360M	50 SEC	HEAT	
DEF	CONDUCT DEFENSE	BP 2B, 3B, 5C, 6C.	MOPP2	Once step 4 is complete, Raise step 5	TANK	M104	1390M	50 SEC	HEAT	
					TANK	SA59	1535M	50 SEC	HEAT	
					TANK	M303	2290M	50 SEC	HEAT	
					TANK	M302	1335M	50 SEC	HEAT	

