FIRING/NONFIRING DATA

LOG# 2-10-10

For use of this form see USAIC Regulation 210-4; the proponent agency is DOT

TO: Chief, Range Division Directorate of Operations and Training Fort Benning, GA 31905	**DATE:** 27 Jan 10
THRU: Chief, Range Operations	**FROM:** Survey, Range Operations

SECTION I

Problem Number:	**Range:** Roosevelt	**Title:** Zero, Alt-C Qualification, AMT/CQM, Stress, Alt firing positions (Standing, Kneeling, and Squatting). Stationary Barricade Fire.
Type Training: a. Live Fire XXX b. Non-live Fire	**CP/Controller Coordinates:** Tower 9107 8030	

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 Mils	Right Limit Mils
Zero/Alt-C Qualification Lt Side FP's 1-29 9120 8041 to 9114 8034 Rt Side FP's 30-59 9110 8030 to 9107 8022	M16/M4 M68/AN-PEM1/PAQ4/PEQ2A/PAQ15/ANPVS14	5.56mm Ball/Blank Laser Aiming Devices	Lt Side 2265 mils Rt Side 1945 mils	Lt Side 2340 mils Rt Side 2020 mils
CQM Lt Side FP's 1-29 9120 8041 to 9114 8034 Rt Side FP's 30-59 9110 8030 to 9107 8022	M16/M4 M68/AN-PEM1/PAQ4/PEQ2A/PAQ15/ANPVS14	5.56mm Ball/Blank Laser Aiming Devices	Lt Side 2115 mils Rt Side 1800 mils	Lt Side 2485 mils Rt Side 2170 mils
Barricade Lt Side FP's 1-29 9120 8041 to 9114 8034 Rt Side FP's 30-59 9110 8030 to 9107 8022	M16/M4 M68/AN-PEM1/PAQ4/PEQ2A/PAQ15/ANPVS14	5.56mm Ball/Blank Laser Aiming Devices	Lt Side 2365 mils Rt Side 2040 mils	Lt Side 2240 mils Rt Side 1925 mils

SECTION IV, LIVE FIRE EXERCISES Attach the *following:*	SECTION V, NON-LIVE FIRE TRAINING
a. Scenario of training to be conducted: See Encl	a. Training area(s) to be occupied:
b. Sketch of area : See Encl	b. Scenario of training to be conducted:
c. Risk Assessment : See Encl	c. Sketch of area(s) to be occupied:
d. FB Form 210-4-2-R if Mortar or artillery is being fired: N/A	d.
Name/rank/signature of requesting officer: Benjamin T. Bolding Benjamin T. Bolding, GS08, Chief, Survey Technician	Name/rank/signature of Major Unit S3/Commander: Brad S. Tesch Brad S. Tesch, YA02, Chief of Range Operations

SECTION VI, FOR RANGE DIVISION USE

TO: Range Operations Fort Benning, GA. 31905	FROM: Range Division, Directorate of Operations & Training Fort Benning, GA 31905	DATE: 16 FEB 10

a. Roadblocks to be closed: A2, 4, 7.

b. Road(s) to be closed/road barrier locations:

c. This approval expires: INDEF

d. REMARKS: Laser Warning Signs will be in place prior to use of the lasers, PEM-1A is not a tactical laser and must be used with-in 25 meters. Class 3 lasers are not eye safe on dual low mode with -in 25 meters.

Chief, Range Division Directorate of Operations and Training	Signature: Brad S. Tesch

DEPARTMENT OF THE ARMY
HEADQUARTERS, MANEUVER CENTER
FORT BENNING, GEORGIA 31905

REPLY TO
ATTENTION OF

IMSE-BEN-PL

12 February, 2010

MEMORANDUM FOR Director, Directorate of Operations and Training, ATTN: Mr. Fred Weekley, Fort Benning, Georgia 31905

SUBJECT: Zero, Alt-C Qualification, Combat Familiarization Fire, Advanced Marksmanship Training (AMT), Close Quarters Marksmanship (CQM), NBC Fire, Night Fire, Alt Firing Positions (Standing, Kneeling, and Prone with Barricades), Stress Fire on Roosevelt.

1. **Purpose:**

The purpose of this memorandum is to outline the training concept and scenario for Firing on Roosevelt using live ammunition. The training will familiarize Soldier's on firing techniques relative to combat conditions in the contemporary operating environment, firing realistic training scenarios from existing firing points and targets arrays with live munitions. During the execution of training at Roosevelt, Soldiers will train on the following task.

- Combat Familiarization Fire (CFF).
- Fire from the standing, kneeling and prone.
- Fire over and around Barricades (4'x 8' plywood wall).
- Stress Fire, NBC Fire, Night Fire.
- Zero and Alt-C Qualification
- AMT/CQM

2. **Concept:**

a. **(CFF)**: Fire from existing firing point at the 25 meter targets with M16/M4 rifle. Barricades will be placed centered on the firing point (See Sketch). Firing orders will move to their firing points at the low ready. Soldiers will start the engagement in the Kneeling position and will adjust positions and shoot around barricades as directed throughout the scenario.

b. **Fire Standing, Kneeling and Prone**: Will be executed IAW FM 3-22-9 chapter 7. Soldiers will fire from firing points at existing 25 meter targets in their firing lane. Soldiers will determine the firing position that offers the best chance of killing the target. Soldiers will conduct load fire reduce stoppage, magazine changes, and target engagement during this iteration.

c. **Fire over and around Barricade**: Will be executed IAW FM 3-22-9 chapter 7. This firing technique trains the soldiers on the firing positions used in an urban environment. Soldiers will fire from firing points at existing 25 meter targets in their firing lane. Soldiers will determine the firing position behind a barricade wall that offers the best

chance of killing the target without exposing the soldier to killing fire. Soldiers will conduct load fire reduce stoppage, magazine changes, and target engagement during this iteration.

d. **Stress Fire:** Soldiers will fire from fixed platform firing positions at the ready line in the prone supported, unsupported and kneeling firing positions. Soldiers will move from an unspecified distance to the actual range being fired on. Soldiers will carry a simulated casualty as a squad over a mile course ending at the range. Soldiers will immediately proceed to the ammunition point and be issued rounds. Soldiers will proceed to the firing line and fire the standard qualification scenario.

e. **ARM 3 (Day), ARM 3N (Night)** : Soldiers will train and fire under controlled conditions at all times. Soldiers will familiarize with the Close Combat Optic (CCO), Infrared Laser Device (PAQ 2, 4, 15), and NVG's (ANPVS14), to engage targets during the day and night. During the day portion of the training, a tower official gives all firing commands. During the night portion, a firing point official gives firing commands with the tower official acting as overall safety. Soldiers will fire from fixed firing points in the prone supported, prone unsupported and kneeling firing positions. The Soldiers are instructed when to load their weapons, and when to engage targets. At the conclusion of the exercise, the Soldiers will lock and clear their weapons, move to the clearing barrels, and exit the firing line. All downrange feedback will be given from the tower.

f. **AMT/CQM Familiarization:** Familiarization training will be conducted in the following manner. All Soldiers will be assigned a lane and a target. All Soldiers will receive a complete dry/blank instructions briefing before the live fire exercise. Soldiers will conduct reflexive fire and controlled pair shooting from the 5, 7, 10, 15, and 25 meter line. Soldiers will move online. Soldiers will shoot controlled pairs at targets from a firing line (example 5m) for a specific amount of rounds (example 10 rounds) and repeat the process. Controlled pairs will be fired from all firing lanes. Soldiers will conduct target discrimination training from the 5, 7, 10, 15, and 25 meter line. Targets will consist of a e-type with 3 different colored objects stapled to the target. Soldiers will be given the command to shoot controlled pairs into the colored targets. This will continue for a specified amount of rounds from a specified firing line (i.e. 5m line). Once completed, Soldiers will continue the process from a different line (i.e. 7m line).

g. **CQM:** All training will be conducted in accordance with FM 3-22.9. Soldiers will be given a specific amount of ammunition and told when to lock and load, and take all commands from the safety. Soldiers will shoot controlled pairs into targets from 5, 7, 10, 15, and 25 meter line from the stationary position, straight ahead from walking, walk-stop-shoot, walk laterally to the left and right. **Soldiers will not be turning left and right. Soldiers will not be turning with live ammo.** Weapons will be carried at the Low-carry technique. The butt stock of the weapon will be placed in the pocket of the shoulder. The barrel of the weapon will be pointed down at the ground. Blanks will be used to train Soldiers on the turning left and right. All weapons will be pointed down range. Each firer will be watched by an observer/controller throughout the entire familiarization and qualification tables (AMT/CQM). The firer will be issued ammunition at the ASP prior to occupying the first firing line. **All Soldiers will remain on line with the specific firing line (i.e. all Soldiers in a line across the 5m firing line front) when engaging targets.** All Soldiers will move between the various firing line. Soldiers will keep their weapons on safe unless engaging targets. Targets will consist of e-type placed in the target stands at Roosevelt. **Soldiers will only fire at the target in**

their lane and there will be no cross lane fires. The observer/controller will ensure that all Soldiers stay on line during any movement and that the Soldier stops his movement in front of his target before engaging the target. Soldiers will lock and clear all weapons, and be rodded off the range at the completion of each shooting iteration. Upon completion of the live fire range a brass and ammo check will be conducted, before leaving the range.

h. **Zero/Alt-C Qualification:** The Zero/Alt-C Qualification will be conducted in accordance with lane firing on assigned points. All firers will only fire at their specific target.

3. **Scenario:**

a. **Pre-Live fire:**

1. User unit detail arrives prior to main body.
2. Detail conducts range set up in preparation of the arrival of the main body to include positioning of barricades IAW Barricade positioning Diagram (See Sketch).
3. Main body arrives and organizes in staging area.
4. Soldiers are given a range orientation/safety brief.
5. Soldiers are instructed on proper firing techniques from the standing, kneeling and prone positions to include barricades.

b. **Sequence of Training:**

1. Units will break soldiers down into firing orders.
2. Soldiers will file to the ammunition point and draw ammunition.
3. Soldiers will move to the base of the tower to enter the range and move to there assigned firing point.
4. Soldiers will take all commands from the tower when to Lock and Load and when to clear weapons.
5. After firing Soldiers will be prompted to move to the center of the range to be rodded off the range or use the clearing barrels.

c. **Post live fire training:**

1. Soldiers will receive feedback/score and retraining as necessary.
2. Soldiers receive a brass and ammo check by their chain of command.
3. All Soldiers, weapons, ammunition and dunnage will be accounted for prior to the departure from the training area.

4. **Safety Measures**

1. All Soldiers will have the appropriate safety equipment on (eye/ear protection, body armor, and helmets as designated by Commander) prior to firing on the range.
2. All live ammo will be kept separate from all other ammunition at all times to prevent mixing with Live and Blank.
3. All Soldiers will receive a safety briefing/orientation on the scenario and demonstration on the proper engagement techniques using barricades.
4. Prior to firing cadre will conduct weapon and ammo inspection to ensure no unauthorized munitions are being used.
5. Cadre will conduct a brass and ammo check prior to Soldiers entering and

leaving the range.

6. A Combat Lifesaver with a designated covered vehicle will be on site at all times.

7. The OIC will monitor Range Control net at all times during execution of training and will request opening/closing codes.

8. Soldiers will be briefed on cease-fire procedures during the range in-brief. Additionally cadre will relay any/all cease fire signals applicable if they witness an unsafe act.

9. RSO will have his RSO card present and only perform duties as the Range Safety Officer.

10. In the event of a serious accident or injury the RSO will immediately call a cease fire until the problem is resolved. The RSO will render reports to Range Control as required. In the event the injury that could result in the loss of life, limb or eyesight he will call E911 and request air/ground evacuation.

11. Laser warning signs will be posted on the range prior to the use of Lasers.

12. **See attached sketch for proper positioning of Barricades and authorized firing positions.**

13. After all rounds are fired; Soldiers will be directed to ensure their weapons are on SAFE, prior to getting up and moving at the low ready. They will then move to the clearing barrel at the base of the tower and conduct clearing barrel procedures. A one piece brass clearing rod will be used to clear muzzle obstructions and if a clearing barrel is not on the range will rod all weapons prior to Soldiers leaving the firing line.

14. RSO will suspend all firing if a malfunction causes damage to a weapon or injury to personnel and will notify QASAS at 544-7490/7489.

15. All soldiers will be briefed on the procedure when finding unexploded munitions (duds) on the range.

16. Laser hazards will be included in safety briefing.

17. No one moves downrange of the 25 meter line at any time.

18. **This scenario does not support the concept of staggered barricade events or separation of lanes in order to run multiple events or firing orders. Units are responsible for developing and submitting a separate range packet if requested training deviates from this standard range packet.**

19. **FP's 1-29 (Left of the Wall) and FP's 30-59 (Right of the Wall) can run independently of each other. For CQM FP's 1-29 (Left of the Wall) and FP's 30-59 (Right of the Wall).**

POC for this exercise is the undersigned at 544-6267.

KENNETH L. WHITEHEAD
GS07, Survey Technician
Range Division

RECORD OF ENVIRONMENTAL CONSIDERATION (REC)

EMD Number: 922205 **Project#:** Unknown **Project Title:** M-4/M-16 Grouping/Zeroing/Advanced Rifle Marksmanship

Description of proposed action:

The range will be used to conduct M-4/M-16 grouping/zeroing/advanced rifle marksmanship tables.

Project Location:

Roosevelt Range

Amount, Description, Location of Disturbance/Digging:

None

Number/Types of Vehicles: N/A

Number of Personnel: N/A

Type of Ammunition: 5.56MM Ball Live Live

Number/Types of Trees: None

Size of Project Area:

Duration of Action: Start: 9/30/2009 Stop: 9/30/2010

Proponent: stacey.ballesteros 706-545-5677

Organization/Unit: Range Division

****

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."

****

APPROVED THROUGH 30 SEPTEMBER, 2010

Hazardous Materials/Waste **Conditions:** **Ted Williams (706 545 7579), 8/11/2009**

1. Ensure personnel know the correct procedure for handling misfires at the range:

2. Closed containers (ammunition can marked 'MISFIRES") will be used for the collection of misfires at each firing range.

-The MISFIRE container will stay closed except to add or remove misfires.

-Misfires SHALL NOT BE COLLECTED in any open container or cardboard box.

3. Ensure that all containers for collection of patches and swaps are kept closed unless weapons cleaning products are being added. Contact EPMB for detailed information on the proper disposal of waste products resulting from the training.

4. Contact POC for questions or additional guidance.

Natural Resources - RCW **None** **Michael Barron (706 544 7080), 8/10/2009**

Noise **Conditions:** **Ellis Leeder ((706) 545 1857), 8/12/2009**

This is normal training that must be conducted annually. If there are any complaints received, the Environmental Management Division will investigate by determining if the noise was detected by noise detection monitors, and then recommending noise mitigation actions to the appropriate personnel. If any assistance is needed please feel free to contact Ellis Leeder at 706.545.1857 or email ellis.leeder@us.army.mil

EMD Number: 922205 **IJO#** Unknown **Project Title:** M-4/M-16 Grouping/Zeroing/Advanced Rifle

****

CWA - Training **Conditions:** **Jesse Taylor (706 545 0276), 8/12/2009**

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 (Figure 6.9.1) to be used during training exercise to comply with SPCC plan requirements. Ensure all wastewater from field mess equipment/operations particularly those involving oil/grease are collected and dispose properly. Do not discharge any wastewater into storm drains or dispose of oil/grease waste directly into land.

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

Signature John E Brown

John E Brown
NEPA Program Manager
Date 19 AUG 09

Signature Todd. Miller

Christopher E. Hamilton, PhD
Acting EPMB Chief
Date 8-19-09

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 filed 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 EVALUTING AND REPORTING SPILLS:

IMMEDIATELY REPORT ALL SPILLS TO YOUR SUPERVISOR AND CALL 911

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

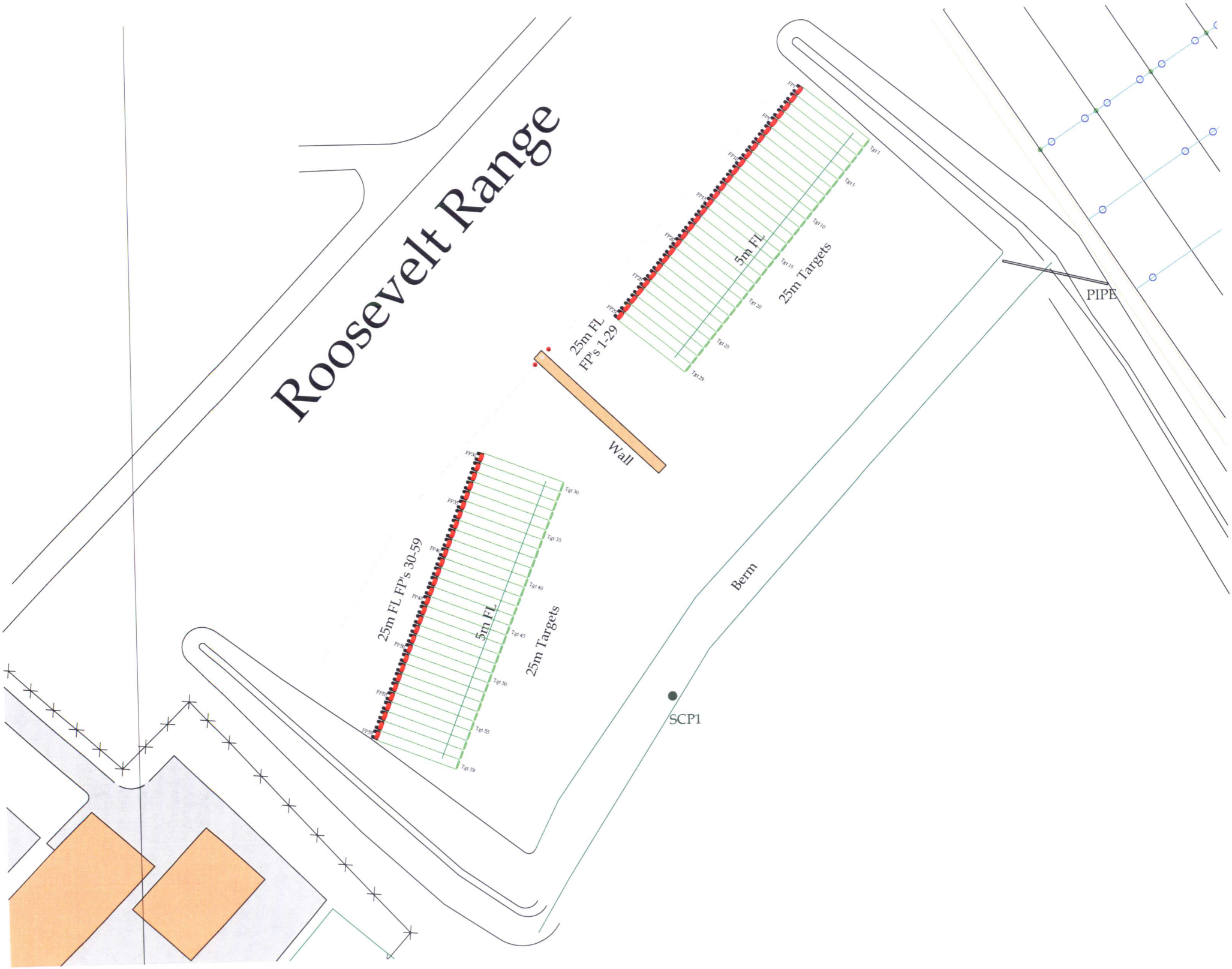
During Duty Hours also Call Mr. Felix Seda, EPMB Spill Manager at 545-9879

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: _____


Roosevelt Range
25m FL
FP's 1-29
5m FL
25m Targets
Wall
25m FL FP's 30-59
5m FL
25m Targets
Berm
SCP1
PIPE

RANGE CONTROL ROADBLOCK LIST (As of: 01 May 09)

BLOCK	GRID	LOCATION	TYPE
A-1	911 792	Across firebreak 200m down Fiske Range at right end of KD berm. Permanently closed.	Cable
A-2	910 783	Off Sightseeing Rd on unnamed trail opposite of entrance to LRC.	Gate
A-4	925 766	Off Sunshine Rd 1,200 m W. of entrance to Grandstaff range.	Gate
A-5	936 762	Across entrance road to Grandstaff Range. 10m N. of Sunshine Rd.	Gate
A-6	939 763	Off Sunshine Rd 100m W. of Oswichee Creek. Permanently closed.	Cable/ Berm
A-8	968 740	Across unnamed trail 30m N. of Sunshine Rd and 800m N.W. of entrance to Griswold Range.	Gate
A-10	018 730	Across entrance road to Flint Range. 50m N. of Sunshine Rd.	Gate
A-11	019 731	Across Lumpkin Trail 30m N. of its intersection with Sunshine Rd.	Gate
A-11A	032 729	Road Guard position #2 for Garnsey Range objective E. Intersection of Jamestown and Sunshine Rd.	Rd Guard #2
A-12	033 742	Across Garnsey Rd 50m W. of its intersection with Jamestown Rd.	Gate
A-12A	029 744	Across Garnsey Rd 400m W. of A-12 Roadblock.	Gate
A-12B	028 741	Across trail 150m SW of A-12A Roadblock. 50m W. of Range Bldg.	Gate
A-12C	036 746	Road Guard position #3 for Garnsey Range objective E (on Jamestown at Lightning)	Rd Guard #3
A-13	936 762	Across Sunshine Rd 10m E. of the entrance to Grandstaff Range. (Road guard location)	Gate
A-14	974 733	Across Sunshine Rd 10m W. of the entrance to Griswold Range. (Road guard location)	Gate
A-15	021 799	Across entrance road to Buchanan Range.	Gate
A-15A	021 798	Gate Across Good Luck Rd	Gate
A-15B	022 796	Road Guard position #1 for Garsey Range objective E (on Jamestown at S-W corner of Engineer building)	Rd Guard #1
A-18	993 828	Across Buckeye Rd 225m S. of its intersection with 1st Div Rd. and 50m E. of entrance to Duke Range	Gate
A-19	973 825	Across entrance road to Patton Range 400m S. of its intersection with 1st Div Rd.	Gate
A-20	974 827	Across entrance road to Dianda Range. 300m S. its intersection with 1st Div Rd.	Gate
A-22	015 817	Across unnamed trail 50m N. of Brinson Range and 10m off Jamestown Rd.	Gate
A-23	024 744	On unnamed trail N. of road entering Garnsey Range. 100m W. of ammo point on range.	Cable
A-23A	983 756	Across Lumpkin Trail 200m E. of Griswold Range.	Gate
A-24	015 811	10m inside the entrance gate of Brinson Range on the south side of the entrance road.	Gate
A-25	016 789	Across fire break 10m W. of its intersection with Good Luck Rd.	Gate
A-26	013 798	On L/S of Buchanan Range 50 meters W. of chow area across entrance to fire break.	Cable
A-27	018 805	Across unnamed trail 175m N. of the intersection of Hourglass and Jamestown Rds.	Gate
A-30	026 758	Across fire break leading to Garnsey Range. 140m SW of Brann Flat Range.	Gate
A-30A	027 758	Across trail leading to Garnsey Range 50m E. of A-30 Roadblock	Gate
A-31	020 745	Across fire break leading to Brann Range. 450m W. of A-23 Roadblock.	Cable

BLOCK	GRID	LOCATION	TYPE
A-32	989 724	Across entrance road to Kunzig Range.	Gate
A-33	974 734	Across entrance to Griswold Range.	Gate
A-34	947 760	Across entrance to Minter Hill 700m E. of Oswichee Creek.	Gate
A-38	952 816	Across fire break 300m down range of firing line on Red Cloud Range on L. side of range.	Cable
A-39	956 822	Across unnamed trail 100m S. of buildings on Buckner Range on L. side of range.	Cable
A-40	967 823	Across fire break 50m down range on the left side of Pierce Range.	Gate
A-41	972 820	Across fire break located on the right side of the firing line on Patton Range.	Cable
A-42	978 820	Across fire break located on the left side of the firing line on Patton Range.	Cable
A-43	983 823	Across fire break located on the right side	Cable
A-44	986 823	Across fire break 100m E. of the 25 Meter Flat range on Booker Range.	Gate
A-45	990 827	Across fire break located on the right side of the firing line on Duke Range.	Gate
A-46	984 832	Across unnamed trail 100m W. of the intersection of 1st Div Rd and Ivy Rd.	Gate
A-47	990 833	Across unnamed trail 500m W. of the its intersection with 1st Div Rd and Buckeye Rd.	Gate
A-48	995 827	Across fire break located on the right side of the firing line on Porter Range.	Cable
A-49	998 827	Across fire break located on the left side of the firing line on Porter Range.	Cable
A-50	000 830	Across unnamed trail 200m W. of entrance to Maertens Range.	Gate
A-51	031 791	Barrier on Furman Rd	Barrier 1
A-52	034 776	Barrier on Yankee Rd	Barrier 2
A-53	035 776	Gate to Cole Range	Barrier 3
A-54	046 749	Barrier off Lightning Rd on unnamed trail	Barrier 5
A-55	057 759	Barrier off Lightning Rd on unnamed trail	Barrier 4

BLOCK	GRID	LOCATION	TYPE
B-1	076 715	Across Liberty Rd 30m N. of its intersection with River Bend Rd.	Gate
B-2	066 711	Across Blue Ridge Trail 30m N. of its intersection with River Bend Rd.	Gate
B-3	048 697	Across Jamestown Rd 30m N. of its intersection with River Bend Rd.	Gate
B-4	042 695	Across unnamed Trail 30m N. of its intersection with River Bend Rd.	Gate
B-5	020 690	Across unnamed Trail 30m N. of its intersection with River Bend Rd.	Gate
B-6	016 691	Across unnamed Trail 30m N. of its intersection with River Bend Rd.	Gate
B-7	998 707	Across Sedan Trail at reservation boundary. Permanently closed. (must coordinate with NSA to access)	Berm

BLOCK	GRID	LOCATION	TYPE
X-1	923 739	Across unnamed rd leading to Fryar DZ 300m S. of its intersection with 101st Abn. Div. Rd.	Gate
X-2	916 726	Across Bon Acre Rd 100m from the reservation boundary.	Gate
X-3	919 714	Across unnamed trail at SW corner of Fryar DZ.	Gate
X-4	920 736	Across unnamed road leading into the N end of Fryar DZ, 380m S-E of Hite Bowl.	Gate

RANGE CONTROL ROADBLOCK LIST (As of: 01 May 09)

BLOCK	GRID	LOCATION	TYPE
K-2	163 883	Across Box Springs Rd 125m N. of its intersection with Buena Vista Rd.	Gate
K-3	153 894	Across entrance road leading to Concord OP 250m N. of its intersection with Buena Vista Rd.	Gate
K-4	144 901	Across entrance road leading to Hartell Bunkers 50m N. its of intersection with Buena Vista Rd.	Gate
K-5	117 920	Across Shamanski Rd 25m N. of its intersection with Buena Vista Rd.	Gate
K-7	095 935	Across Audernarde Trail 10m E of its intersection with Lorraine Road.	Gate
K8	099 947	Across Bulls Eye Rd 50m E of its intersection with Lorraine Road.	Gate
K9	105 927	Across Audernarde Trail 30m W of Moore Rd, 575m N of Buena Vista Rd & Moore Rd intersection.	Gate
K-10	118 920	Across Buena Vista Rd at K-5 road block. (Road guard location).	Gate
K-11	103 922	Across Moore Rd 50m N. of its intersection with Buena Vista Rd. Entrance to Terry Demo Rng. (Road guard location)	Gate
K-12	104 988	Across Old Lorraine Rd 900m S. of its intersection with Lorraine Rd.	Cable
K-13	109 937	Across Moore Rd 10m N. of its intersection with Bullseye Rd.	Gate
K-14	113 998	Across Moore Rd 10m S. of its intersection with Lorraine Rd.	Gate
K-15	114 999	Across course road leading out of Ruth Range 50m E. of its intersection with Moore Rd.	Gate
K-16	190 003	Across Rinehart Rd 100m W. of its intersection with Box Springs Rd.	Gate
K-17	116 013	Across unnamed trail 15m E. of Moore Rd and 130m N. of Ruth Range tower.	Cable
K-18	122 033	Across Moore Rd. at the northern reservation boundary. Permanenty closed.	Berm
K-19	121 023	Across unnamed trail 1400m N. of Ruth Range and 150m E of Moore Rd.	Cable
K-20	141 026	Across unnamed trail off northern boundary trail along railroad tracks 400m E. of Cox Creek ford.	Cable
K-24	219 968	Across Turrentine Rd at reservation boundary. Permanently closed.	Barrier/ Berm
K-25	180 923	Across unnamed trail leading to Shiloh Trail 10m W. of Box Springs Rd. Permanently closed.	Cable
K-26	201 968	Across Turrentine Rd 20m W. of its intersection with Boundary Rd.	Gate
K-28	191 885	Across Whitson Rd 15m W. of its intersection with Cactus Rd.	Cable
K-30	193 916	Across Cactus Rd 150m N. of Pine Knot Creek. Permanently closed.	Gate
K-32	192 915	Across Shamanski Rd 35m W. of its intersection with Cactus Rd.	Gate
K-34	134 932	Across Buzancy Trail at its intersection with Rinehart Rd. Permanently closed.	Berm
K-36	162 882	Across Buena Vista Rd 50m W. of its intersection with Box Springs Rd. (Road guard location).	Gate
K-38	201 941	Across unnamed trail 35m W. of its intersection with the east boundary road. Permanently closed.	Cable
K-39	202 949	Across unnamed trail 15m W. of its intersection with the east boundary road. Permanently closed.	Cable

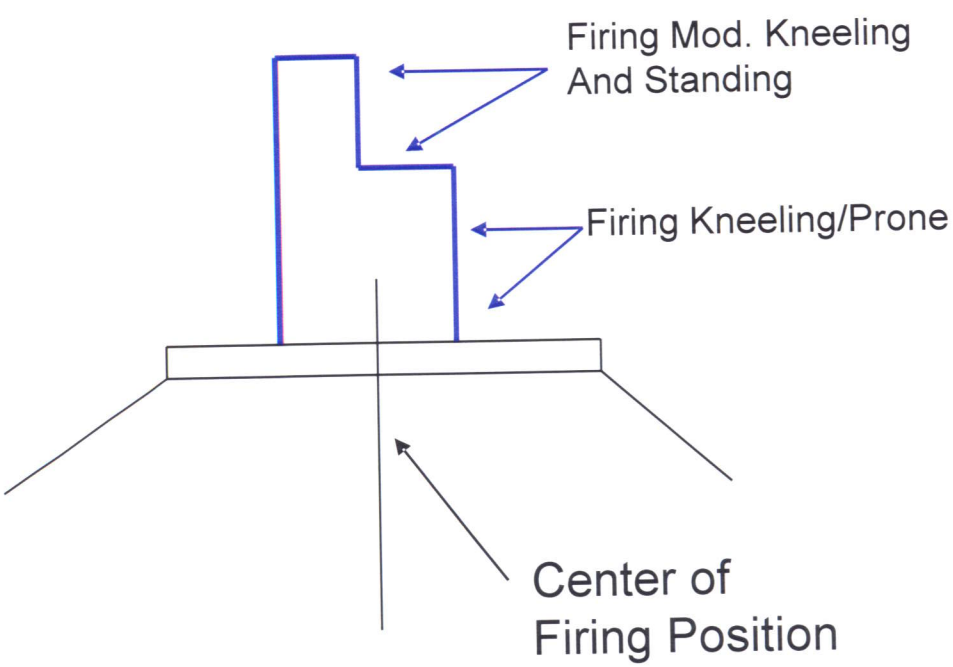
BLOCK	GRID	LOCATION	TYPE
K-40	174 908	Across Box Springs Rd 30m S. of Pine Knot Creek.	Gate
K-41	192 944	Across Kennesaw Trail 30m W. of its intersection with Box Springs Rd.	Cable
K-42	194 956	Across Box Springs Rd 1200m N. of its intersection with Cactus Rd.	Gate
K-43	197 984	Across Box Springs Rd. approx 450m N. of its intersection with the Hastings Range baseline road.	Cable
K-44	113 955	Across Moore Rd on the N. side of Carmouche Range maneuver box.	Gate
K-45	116 964	Across Moore Rd 30m S. of its intersection with the old Ware Range course road.	Gate
K-46	119 979	Across Moore Rd 725m S. of its intersection with Americo Trail.	Gate

BLOCK	GRID	LOCATION	TYPE
M-1	009 910	Across Steam Mill Rd 10m E of its intersection with Wildcat Rd.	Gate
M-2	019 938	Across Massey Rd 10 meters S. of its intersection with Buena Vista Rd.	Gate
M-3	046 892	Across Stenay Rd 30m N. of its intersection with 2nd Armored Division Rd.	Gate
M-4	046 935	Across Red Arrow Rd 30m S. of its intersection with Buena Vista Rd.	Gate
M-5	045 933	Across unnamed trail 220m SW of its intersection with Red Arrow Rd.	Gate
M-6	058 927	Across Red Arrow Rd 30m W. of its intersection with Midwest Rd.	Gate
M-7	052 923	Across Steam Mill Rd 400m S. of its intersection with Red Arrow Rd.	Gate
M-8	021 891	Across unnamed trail on S side of 2nd Armored Div Rd 110m E of entrance to Malone 2.	Gate
M-9	032 937	Across unnamed trail on S side of Buena Vista Rd 200m E. of entrance to Young Range.	Gate
M-10	059 926	Entrance to Borrow Pit on Red Arrow Rd. 50m SE of M-6 Roadblock	Gate

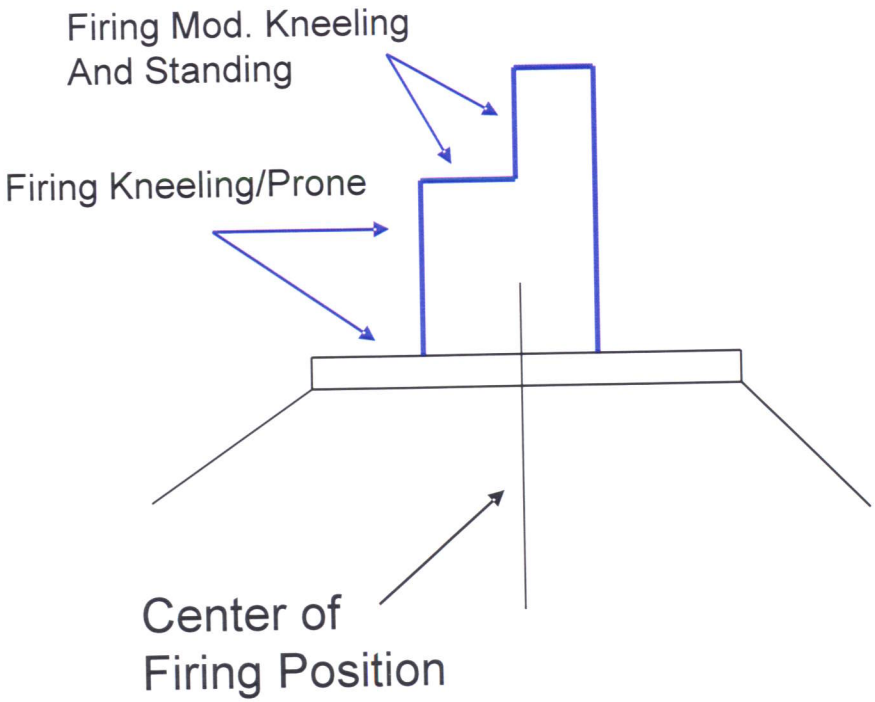
BLOCK	GRID	LOCATION	TYPE
O-1	063 979	Across unnamed trail 10m NE of its intersection with Midwest Rd.	Gate
O-2	058 988	Across Engineer Trail 20m N of its intersection with Midwest Rd.	Gate
O-3	056 998	Across unnamed trail 700m NE of its intersection with Midwest Rd.	Gate
O-4	078 009	Across unnamed trail 50m N. of Gorday DZ.	Gate
O-5	095 995	Across Engineer Trail 100m W of its intersection with Lorraine Rd.	Gate
O-6	092 980	Across unnamed trail 10m W of its intersection with Lorraine Rd.	Gate

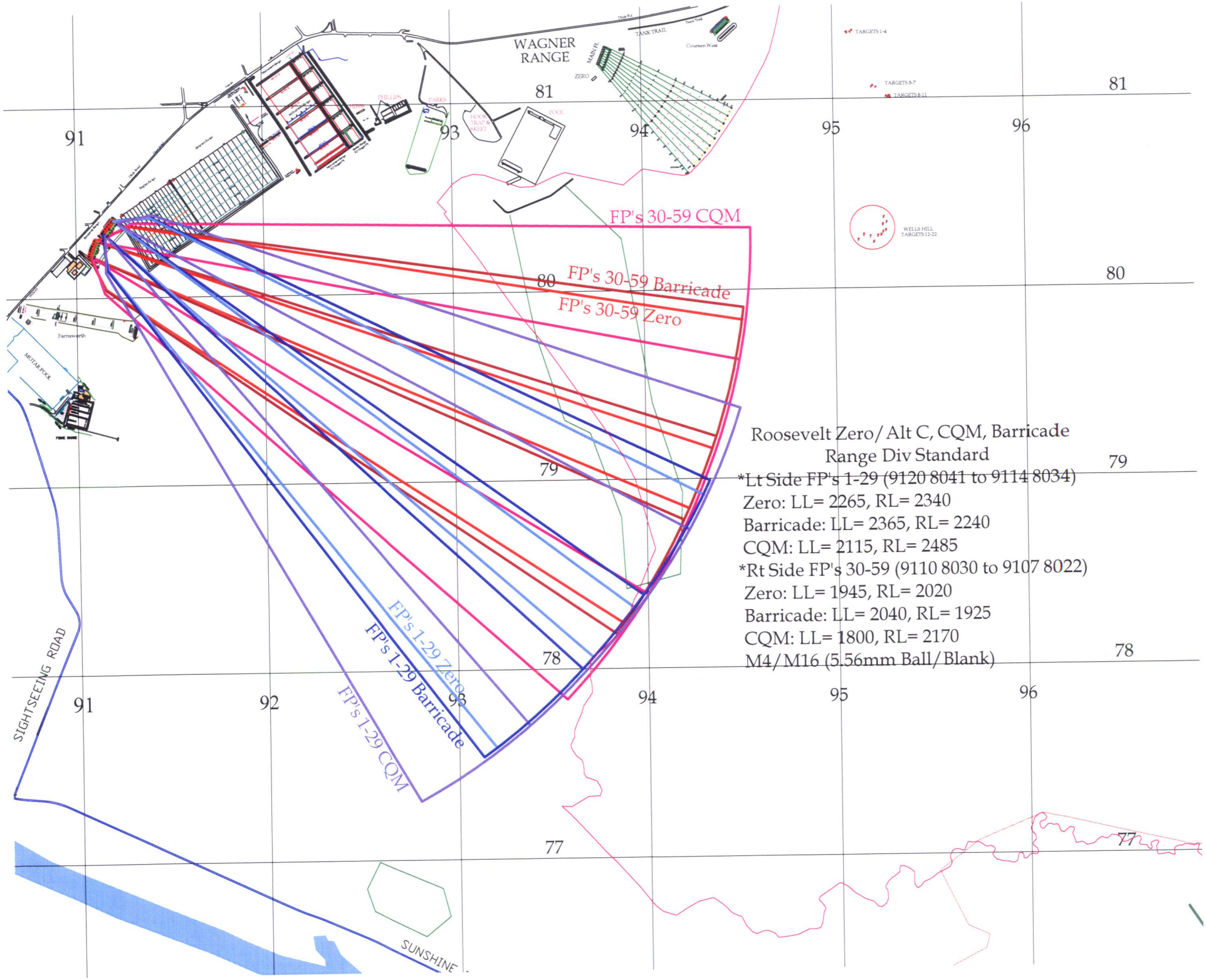
Placement of Barricades on Roosevelt Firing Positions

Position of Barricade
for a right-hand firer



Position of Barricade
for a left-hand firer




WAGNER RANGE
TANK TRAIL
Coursen West
MAIN FL
ZERO
PHILLIPS
PARKS
HOOK TRAP & SKEET
POOL
TARGETS 1-4
TARGETS 5-7
TARGETS 8-11
WELLS HILL TARGETS 12-22
Farnsworth
MOTAR POOL
SIGHTSEEING ROAD
SUNSHINE
FP's 30-59 CQM
FP's 30-59 Barricade
FP's 30-59 Zero
FP's 1-29 Zero
FP's 1-29 Barricade
FP's 1-29 CQM
81
80
79
78
77
91
92
93
94
95
96
Roosevelt Zero/ Alt C, CQM, Barricade
Range Div Standard
*Lt Side FP's 1-29 (9120 8041 to 9114 8034)
Zero: LL= 2265, RL= 2340
Barricade: LL= 2365, RL= 2240
CQM: LL= 2115, RL= 2485
*Rt Side FP's 30-59 (9110 8030 to 9107 8022)
Zero: LL= 1945, RL= 2020
Barricade: LL= 2040, RL= 1925
CQM: LL= 1800, RL= 2170
M4/M16 (5.56mm Ball/Blank)