

Special Instructions

ALL TARGETS SHALL BE PLACED ON BULLET TRAPS

Range: R-116D	Lateral Limits: Left Contained within structure Right Contained within structure	Min/max Engagement Distance: Min 1 meter Max Scenario dependent	Range Facilities: Shooting house with multiple room adjustments, Explosive Breaching Façade, Mechanical Breaching Façade, Shotgun Breaching Façade.
Location: 6369 8895	See below Special Instructions for Sniper FFP		
Type: 360 Degree Shooting House	Boundaries: Grids Contained within structure	Allowable Wpns: Rifles, 7.62 and below (Sniper Engagements Only);	Assigned to: CO, MCB Date Revised: 20 August, 2008
Range Phone Number(s): (760) 725-0103 DSN 577-3556	Impact Area: Contained within structure Sniper: X-Ray	Rifles M4 with Frangible Ammo only; pistols, .45 cal. and below; Shotguns; demolitions, not to exceed ¼ lb. NEW; SESAMS, Lasers	

Scheduling

1. All scheduling requests for R-116A shall be submitted via the Naval Special Warfare Command. The POC is the Scheduling OIC at (619) 437-4561.
2. Once approved, unit will utilize RFMSS to schedule range.
3. All personnel conducting live fire must have completed the required live fire qualification (NLT than 48 hours) prior to shooting on this range.
4. When conducting Force-on-Force no shooting member shall have conducted live fire within 24 hours of this event.
5. Lasers fired from Sniper Hide will require scheduling FL R116 & LTA X-Ray.

Scheduling Conflicts	R116D	Conflict Notes
Alison Canyon	1	Note (1) – Sniper FFP Closes any Movement/Use.
R116B/C	2	Note (2) – Sniper FFP Closes use of Range

GENERAL INSTRUCTIONS

1. A safety Brief will be conducted prior to each live fire event to all participants.
2. RSO shall brief and conduct at least two emergency evacuation rehearsals prior to conducting any training.
3. All personnel shall wear required PPE during all training events.
4. OIC & RSO Requirements -
 - a. Live Fire, SESAMS, Flash Bangs & BFX
 - i. OIC Requirement – GySgt or Above
 - ii. RSO Requirement - SSgt or Above
 - b. Blanks
 - i. OIC Requirement – SSgt or Above
 - ii. RSO Requirement - Sgt or Above
 - c. No Munitions
 - i. OIC Requirement – None
 - ii. RSO Requirement - Sgt or Above
 - iii. LASER (If Used) LSSO Requirement - Sgt or Above
5. IOT occupy this range unit must have the following personnel/equipment:
 - a. RSO
 - b. Corpsman & Safety Vehicle
 - c. Positive Communication with LONGRIFLE
 - d. An ORM reviewed and signed by the Command, RSO and OIC.
6. IOT go into a hot status on range unit must have the following personnel/equipment:
 - a. OIC
 - b. RSO
 - c. LSSO – If using Laser
 - d. Corpsman & Safety Vehicle
 - e. Positive Communication with LONGRIFLE
7. POVs are authorized to park in parking lot area without a POV pass.
8. The RSO & OIC will personally observe each event.
9. A non-participating Corpsman will be stationed with safety vehicle.
10. Ammunition will only be issued per event and accounted for on NAVMC 11381.
11. After each event, unit leaders will conduct a line out.
12. Each RSO/PSO will certify to the OIC that all weapons are in Condition 4 prior to exiting the range/facility and all ammunition is accounted for.

All weapon malfunctions shall be corrected per the appropriate TM/FM, and unit SOP.

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1. **OIC and RSO must have completed a training event "shadowing" a qualified OIC/RSO prior to acting in that capacity on this range.**
 - a. **Completion of this requirement shall be indicated on the unit ORM.**
2. **Qualifications -**
 - a. All personnel conducting live fire must have completed the required live fire qualification prior to shooting on this range.
 - b. All Marine Corps Personnel must hold a current qualification as outlined (Min Qual is 75 out of 100):
 - i. Table 3A & 4A Service Long Gun (M16/M4 or Subgun).
 - ii. Table 3A & 4A Service Handgun.
 - c. "Current" qualifications must meet the following criteria:
 - i. Qualification must be completed within 48 hours of conducting training.
 - d. **Units other than USMC may submit an alternate course of fire to the RCO for approval.**
3. **Inside House**
 - a. **NO Rifle Ball AMMO ALLOWED)**
 - b. **Frangible Ammo Rifles M4 only**
 - c. Pistols, .45 cal Ball and Below
 - d. While conducting rehearsals and live fire with small arms, the RSO will ensure:
 - i. No one will engaged a target that is individual lateral limits establish by the RCO.
 - ii. **All targets will be placed below the red line.**
 - iii. **No targets will be placed on a seam.**
 - iv. At no time will any targets be placed on any wall that is part of the dividing structure.
 - v. **Small arms muzzles shall be kept below the red line.**
 - e. All personnel shall wear a flak jacket, helmet, hearing protection, and ballistic eye protection inside the house or on the catwalks above.
4. **ALL TARGETS SHALL BE PLACED ON BULLET TRAPS**
5. **NO BURST FIRE/M249s ARE ALLOWED**
6. **No shots will be taken from outside to inside, a room to a room, hallway to a room or room to the hallway.**
7. **All personnel shall conduct a non live-fire rehearsal prior to conducting live-fire scenarios.**
8. The RSO will accompany personnel as they execute both the rehearsal and the live -fire scenario.
9. While conducting rehearsals and live fire with flash bangs, the RSO will ensure:
 - a. The RSO will directly supervise and control the throwing of flash bangs.
 - b. Flash Bangs will be carried in accordance with unit SOPs.
 - c. **Only one flash bang will be thrown at a time.**
 - d. **Thrower will step out into the door way and identify the target area.**
 - e. **Flash bang will be thrown with outboard hand only.**
 - f. **Once a pin is pulled on a flash bang, it will not be reinserted into the grenade.**
 - g. **Once a flash bang is thrown, all personnel executing the scenario and the RSO shall have no portion of their bodies exposed to the room into which the flash bang was thrown.**
10. **CS & HC Smoke Operations**
 - a. **CS & HC Smoke is not authorized.**
11. **Rappelling & Grappling Hooks - Rappelling & Grappling Hooks are not authorized.**
12. **Sniper Hide:**
 - a. FFP – 63723 89013
 - b. LLL – 187 deg mag
 - c. RLL – 212 deg mag
 - d. FFP Alt – 485' MSL
 - e. **All targets out side of the building will be below the FFP altitude**
 - f. **The only target to be engaged inside or on the building will be the third deck door with 7.62mm bullet trap**
 - g. RSO must post range guards or close gate.
 - h. **All members of the assault element/entry team must remain outside the MSL during sniper-supported attacks until all sniper weapons at the FFP are in condition 4 and verified by RSO.**
13. **Range Guards Position - 63956 89031**
14. Helicopters may over fly the area at 1,000' AGL and above. When firing from the sniper hide an air sentry shall be designated to observe for aircraft entering into the range surface danger zone. In the event an aircraft enters the range surface danger zone, an immediate cease-fire shall be conducted and LONGRIFLE notified. Firing shall not continue until cleared by LONGRIFLE

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Breaching Operations

1. **During breaching operations – Co-Use is Not Authorized:**
 - a. **All breaches will be set on doors supplied by the using unit that are mounted to approved framing to reduce any hazards to the building.**
 - b. **Mechanical Breaching**
 - i. All mechanical breaching will be conducted utilizing tools from issued breaching kits.
 - c. **Ballistics Breaching**
 - i. All Ballistic Breaching will be directed on the east side of buildings only.
 - ii. Ammunition will only be issued per event.
 - d. **Explosive Breaching**
 - i. The breach will consist of a field expedient urban breaches (duel primed) at no more than .25 lbs NEW (**Any Requests for annual waivers for this requirement shall not be approved**).
 - ii. Max Ord is 207 feet AGL for vertical or fragmentation hazard at ¼ lbs NEW.
 - iii. A maximum K – Factor of 18 (3.5 PSI) will be utilized and all personnel are to follow the below unshielded safety standoffs.
 - iv. **If shielded, RSO may reduce standoff by 50%.**
 - v. Double hearing protection required for all PSIs at or above 1.68.
 - vi. All personnel will be set in position prior to initiating the breach.
 - vii. All exposed building material must be covered/framed IOT prevent any damage to the structure.
 - viii. A safety Brief will conducted prior to each live fire event to all participants.
 - ix. The RSO & OIC will personally observe each live fire event.
 - x. Each breach will be inspected and approved by the RSO.
 - xi. Time fuse will be cut and tested by RSO (**30 Sec. Max. Time**).
 - xii. Any Electrical Systems will be tested by RSO.
 - e. There will be additional safety personnel assigned as follows:
 - i. **A PSO will travel with each breaching team.**
 - ii. **Each PSO will have positive communication with the RSO.**
 - f. **Range guards and signs will be posted to advise personnel of the training being conducted and to prevent any personnel not involved in the training from entering the Fragmentation Safety Arc**
 - g. **The RSO is responsible for all charges, and ensuring all misfire procedures are in compliance with current directives.**

K FACTOR

	40	30	24	18	11	9	6
NEW OF CHARGE (TNT EQUIVALENT)	1.2 -9 PSI	1.7 PSI	2.3 PSI	3.5 PSI	8 PSI	12 PSI	27 PSI

Distance in Feet From Detonation

0.25	25.198421	18.89881575	15.1190526	11.33928945	6.929565774	5.669644725	3.77976315
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Blank Ammunition

1. The following precautions will be observed during the use of blank ammunition:
 - Blank Firing Attachment (BFA) shall be used on all weapons.
 - **5 meter safe separation distance (SSD)** will not be reduced.
 - i. This distance includes a dispersion angle of 10 degrees left and right of the GTL.
 - Hearing protection (ear plugs) should be worn while firing blank ammunition.
 - **Encapsulating Eye Protection shall** be worn by all personnel.
2. A violation of the SSD could result in serious injury. If the SSD is decreased to within .9m, fatal injuries may occur.

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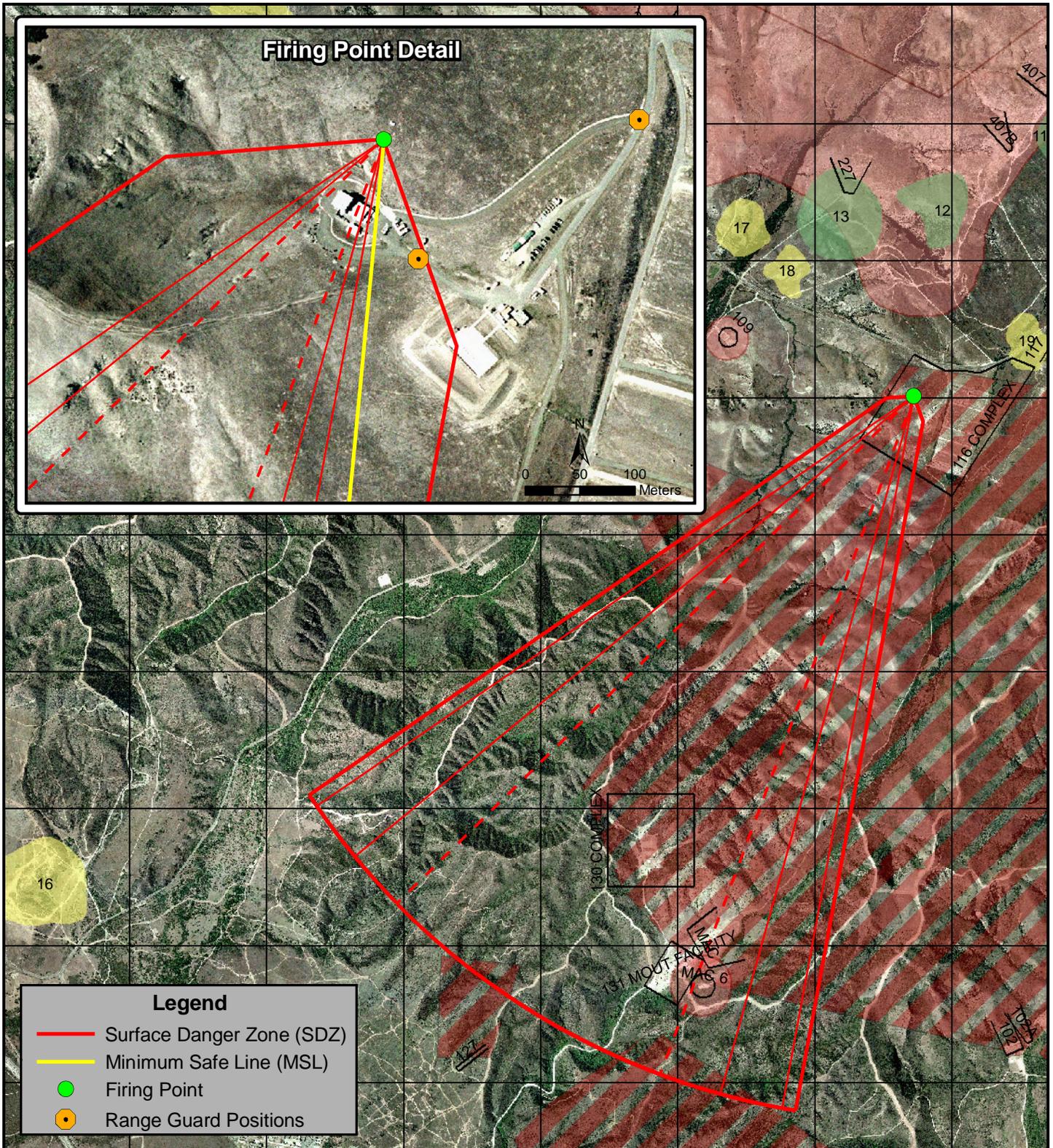
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LASER

1. A **“LASER training In Progress” Sign shall be posted at each of the entrances outside the building by the unit.**
3. Precautions associated with direct-fire weapons shall be applied to all lasers operated on military ranges. **No personnel shall be allowed “down range” during calibration.**
4. **Appropriate Laser Eye Protection (LEP) will be worn by all personnel during calibration.**
5. LSSOs shall establish boundaries for laser range operations and strictly control laser use in training to conform to the provisions of this brief and applicable TMs.
6. A laser safety orientation will be given to all personnel before they commence laser operations.
7. **Personnel suspected of experiencing potentially damaging eye exposure from laser radiation will be evacuated immediately to the nearest medical facility and undergo an eye examination.**
8. Intrabeam viewing of either direct or reflected beams from a flat mirror-like (specular) surface from lasers can expose the unprotected eye to a potential hazard and must be prevented. Flat specular surfaces shall be removed from prior to calibration.
9. If is not feasible to remove all specular surfaces from the target, these surfaces must be covered with a diffuse material prior to use as a target.
10. Personnel will not deliberately view direct laser radiation with optical instruments within NOHD-O and NOHD-M unless optical devices are considered “laser safe” for the type of laser being used. The resulting amplification of laser energy significantly increases the probability of eye injury.
11. Night vision devices will not be used for laser eye protection. These devices are not “cover-all” goggles. Laser energy may enter the eye from reflections or from around the tubes.

SESAMS

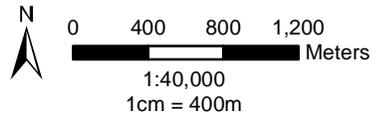
1. A **“SESAMS training In Progress” Sign shall be posted at each the entrance outside the building by the unit.**
1. All participating Marines will be required to wear flak, Kevlar, throat/groin protector, contact gloves, utilities, hearing protection, and approved masks.
2. All personnel will wear the specified gear when inside the safety perimeter.
3. You shall have a minimum of two NCOs or higher act as safety controllers.
 - a. These Marines will ensure that there are no intentional headshots and no engagements closer than **5 feet.**
4. All Marines will be lined out before any SESAMS rounds are distributed.
5. All SESAMS magazines will be clearly marked, as will the barrels.
6. Following the completion of the training, all Marines will be lined out again
7. **Ensure all training is conducted IAW SOUM 1-02.**



Legend

- Surface Danger Zone (SDZ)
- Minimum Safe Line (MSL)
- Firing Point
- Range Guard Positions

Weapon: 7.62 mm Rifle
 Ammo: Spec Ball M118 Long Range
 Media: Earth & Steel
 Firing Point: 63723 89013; 485' AMSL
 Distance X: 5,288 Meters
 Vertical Hazard: 752 Meters
 Left Lateral Limit: 187° Mag
 Right Lateral Limit 212° Mag



RANGE 116D

Table 3A

Stages	Yard line	Drill	Rounds per Iteration	Time(sec)	Position	Iteration	Rounds	Possible Score
Stage 1	25	Controlled Pair	2	4	Standing	2	4	8
Stage 2	25-15	Fwd Mvt (Controlled Pair)	2	NA	Standing	1	2	4
	15	Pivot right (Hammer Pair)	2	4	Standing	1	2	4
	15	Pivot Left (Hammer Pair)	2	4	Standing	1	2	4
Stage 3	15-10	Fwd Mvt (Hammer Pair)	2	NA	Standing	1	2	4
	10	Pivot right (Hammer Pair)	2	3.5	Standing	1	2	4
	10	Pivot left (Hammer Pair)	2	3.5	Standing	1	2	4
Stage 4	10-5	Fwd Mvt (Failure to Stop)	3	NA	Standing	1	3	6
	5	Pivot right (Failure to Stop)	3	3	Standing	1	3	6
	5	Pivot left (Failure to Stop)	3	3	Standing	1	3	6
Stage 5	25	Controlled Pair	2	4	Standing	2	4	8
Stage 6	25-15	Fwd Mvt (Controlled Pair)	2	NA	Standing	1	2	4
	15	Pivot right (Hammer Pair)	2	4	Standing	1	2	4
	15	Pivot Left (Hammer Pair)	2	4	Standing	1	2	4
Stage 7	15-10	Fwd Mvt (Hammer Pair)	2	NA	Standing	1	2	4
	10	Pivot right (Hammer Pair)	2	3.5	Standing	1	2	4
	10	Pivot left (Hammer Pair)	2	3.5	Standing	1	2	4
Stage 8	10-5	Fwd Mvt (Failure to Stop)	3	NA	Standing	1	3	6
	5	Pivot right (Failure to Stop)	3	3	Standing	1	3	6
	5	Pivot left (Failure to Stop)	3	3	Standing	1	3	6
						Total	50	100

Table 4A

Stages	Yard Line	Drill	Rounds per Iteration	Time (sec)	Position	Iterations	Rounds	Possible Score
	50	Controlled Pairs	4	8	Standing to Kneeling	1	4	8
	25	Box Drill	6	12	Standing/Kneeling	1	6	12
	25-15	Controlled Pairs	4	NA	Forward Mvmt	1	4	8
	15	90° Pivot Right, Box Drill	6	5	Standing	1	6	12
	15	90° Pivot Left, Box Drill	3	4	Standing	1	6	12
	15-10	180° Pivot Left, Box Drill	6	NA	Forward Mvmt	1	6	12
	10	90° Pivot Right, Box Drill	6	4	Standing	1	6	12
	10	90° Pivot Left, Box Drill	6	4	Standing	1	6	12
	10-5	180° Pivot Right, Box Drill	6	NA	Forward Mvmt	1	6	12
						Total	50	100

Echo Hard Card Target
NSN:6920-00-795-1806

