

RANGE AND TRAINING REGULATIONS

All Personnel Shooting in this Facility Must have current Qualification

ALL TARGETS SHALL BE PLACED ON BULLET TRAPS

Range: R-130B	Lateral Limits: Contained within structure	Min/max Engagement Distance: CMP/CQB: Min 1 meter (weapon dependent) Max Scenario dependent	Range Facilities: Shooting house with multiple room adjustments,
Location: 617 855	Boundaries: As Depicted		
Type: CQB Shoot House			
Impact Area: X-Ray	Range Phone: 760-763-3172	Allowable Wpns: No Hollow Point Allowed Rifles, 5.56mm (Frangible Ammo Only); pistols, .45 cal. and below (Ball Only); shotguns (Breaching Only); Flash Bangs; (FX Marking) SESAMS 9mm Only	Assigned to: CO, MCB Date Revised: 24 September, 2008

Scheduling

1. 1st MSOB & SOTG Sponsored Units Must Submit Requests through and must be approved by RCB Range Manager.
2. LEA submit requests through O&T operations and must be approved by RCB Range Manager.
3. Final approval & scheduling of this range must be submitted to Range Scheduling.
4. All personnel conducting live fire must have completed the required live fire qualification (NLT than 48 hours) prior to shooting on this range.
5. When conducting Force-on-Force no shooting member shall have conducted live fire within 24 hours of this event.

Scheduling Conflicts	R130B	Conflict Notes
	CQB Trainer	
Sniper Hides	1	Note (1) – Sniper Hides will use 15-degree rule for flanking fires IOT establish the MSL.
Aerial Platforms	2	Note (2) – R130B must not be occupied.
LZ	3	Note (3) – Range must be in cold status.

GENERAL INSTRUCTIONS

1. A safety Brief will be conducted prior to each live fire event to all participants.
 2. All personnel shall wear required PPE during all training events.
 3. 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
 4. 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.
 5. 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
 6. POVs are authorized to park in parking lot area without a POV pass.
 7. The RSO & OIC will personally observe each event.
 8. A non-participating Corpsman will be stationed with safety vehicle.
 9. Ammunition will only be issued per event and accounted for on NAVMC 11381.
 10. After each event, unit leaders will conduct a line out.
 11. 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.

RANGE AND TRAINING REGULATIONS

All Personnel Shooting in this Facility Must have current Qualification
ALL TARGETS SHALL BE PLACED ON BULLET TRAPS

SPECIAL INSTRUCTIONS

1. All vehicles shall be parked in the designated parking area.
 2. 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.
 3. **NO BURST FIRE/M249s ARE ALLOWED**
 4. No shots will be taken from outside to inside, a room to a room, hallway to a room or room to the hallway.
 5. No shots will be taken outside the authorized lateral limits of each room.
 - a. Square Room Center Door
 - i. #1 Man – Primary Sector:
 1. Corner to corner to Center wall – 1 meter overlap
 - ii. #1 Man – Secondary Sector:
 1. Corner to Center wall
 - iii. #2 Man - Corner to corner to Center wall – 1 meter overlap
 - iv. # 3 Man – Center wall to center wall
 - v. # 4 Man – Center wall to center wall
 - vi. # 5 Man – Center wall to corner
 - b. Square Room Corner Door
 - i. #1 Man – Primary Sector:
 1. Corner to corner – 1 meter overlap
 - ii. #1 Man – Secondary Sector:
 1. Corner to Center wall
 - iii. #2 Man - Corner to center wall
 - iv. # 3 Man – Center wall to center wall
 - v. # 4 Man – Center wall to center wall
 - vi. # 5 Man - Center wall to center wall
6. **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.**
7. **All personnel shall conduct a non live-fire rehearsal prior to conducting live-fire scenarios.**
8. The OIC and RSO will accompany personnel as they execute both the rehearsal and the live -fire scenario.
9. Inside House (**NO M855 BALL/TRACER AMMO NO BURST FIRE/M249s ARE ALLOWED**):
 - a. While conducting rehearsals and live fire with small arms, the RSO will ensure:
 - i. **All personnel on the catwalk are behind the safety glass.**
 1. **RSO will ensure that minimum personnel required are on catwalks.**
 - ii. No one will engaged a target that is closer than 1 meter from any muzzle.
 - iii. **All targets will be placed below the red line.**
 - iv. **No targets will be placed on a seam.**
 - v. At no time will any targets be placed on any wall that is part of the dividing structure.
 - vi. **Small arms muzzles shall be kept below the red line.**
 - b. **All personnel shall wear a flak jacket, helmet, hearing protection, and ballistic eye protection inside the house or on the catwalks above.**
10. **No shots will be taken from outside to inside, a room to a room, hallway to a room or room to the hallway.**
11. **All personnel shall conduct a non live-fire rehearsal prior to conducting live-fire scenarios.**
12. The RSO will accompany personnel as they execute both the rehearsal and the live -fire scenario.
13. 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 pouches.
 - c. **No flash bang will be thrown if there is any standing water or mud.**
 - d. Only one flash bang will be thrown at a time.
 - e. Thrower will step out into the door wall and identify the target area.

RANGE AND TRAINING REGULATIONS

All Personnel Shooting in this Facility Must have current Qualification

ALL TARGETS SHALL BE PLACED ON BULLET TRAPS

- f. Flash bang will be thrown with outboard hand only.
- g. Once a pin is pulled on a flash bang, it will not be reinserted into the flash bang.
- h. 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.

14. CS & Smoke Operations

- a. CS & HC Smoke is not authorized.
- b. Regular smoke is authorized after cessation of live fire – for extraction only.

15. Rappelling & Grappling Hooks

- a. Rappelling & Grappling Hooks are not authorized.

16. During Less Lethal:

- a. RSO must be a SSgt (E-6).
- b. All effects must be contained within the structure.
- c. All participating personnel shall wear flak, Kevlar/Approved helmet, throat/groin protector, contact gloves, utilities, and approved masks.
- d. All personnel will wear the specified gear when inside the maneuver boundaries.
- e. The RSO shall assign a minimum of two NCOs or higher act as PSOs.

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/Approved Helmet, 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.

Breaching Operations

1. Breaching operations

- 2. 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.
 - a. **Mechanical Breaching**
 - i. All mechanical breaching will be conducted utilizing tools from issued breaching kits.
 - b. **Ballistics Breaching**
 - i. Ammunition will only be issued per event.
 - ii. All ballistic breaching will directed 45° down into the room.
 - c. **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 185 feet AGL for vertical or fragmentation hazard at .25 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.
 - d. 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.

RANGE AND TRAINING REGULATIONS

All Personnel Shooting in this Facility Must have current Qualification

ALL TARGETS SHALL BE PLACED ON BULLET TRAPS

- e. Live Fire signs will be posted all times when the SACON House is hot as depicted in the graphics.
 f. The RSO is responsible for all charges, and ensuring all misfire procedures are in compliance with current directives.

K FACTOR

	40 1.2 -.9 PSI	30 1.7 PSI	24 2.3 PSI	18 3.5 PSI	11 8 PSI	9 12 PSI	6 27 PSI
--	-------------------	---------------	---------------	---------------	-------------	-------------	-------------

Distance in Feet From Detonation

0.005	6.839903787	5.12992784	4.103942272	3.077956704	1.880973541	1.538978352	1.025985568
0.01	8.61773876	6.46330407	5.170643256	3.877982442	2.369878159	1.938991221	1.292660814
0.015	9.864848297	7.398636223	5.918908978	4.439181734	2.712833282	2.219590867	1.479727245
0.02	10.85767047	8.14325285	6.51460228	4.88595171	2.985859378	2.442975855	1.62865057
0.025	11.69607095	8.772053215	7.017642572	5.263231929	3.216419512	2.631615964	1.754410643
0.03	12.42893002	9.321697518	7.457358014	5.593018511	3.417955757	2.796509255	1.864339504
0.035	13.08426524	9.813198931	7.850559144	5.887919358	3.598172941	2.943959679	1.962639786
0.04	13.67980757	10.25985568	8.207884544	6.155913408	3.761947083	3.077956704	2.051971136
0.045	14.22757322	10.67067991	8.536543931	6.402407948	3.912582635	3.201203974	2.134135983
0.05	14.73612599	11.0520945	8.841675597	6.631256698	4.052434649	3.315628349	2.210418899
0.055	15.21180984	11.40885738	9.127085906	6.845314429	4.183247707	3.422657215	2.281771476
0.06	15.65947056	11.74460292	9.395682339	7.046761754	4.306354405	3.523380877	2.348920585
0.065	16.08290303	12.06217728	9.649741821	7.237306365	4.422798334	3.618653183	2.412435455
0.07	16.4851412	12.3638559	9.89108472	7.41831354	4.53341383	3.70915677	2.47277118
0.075	16.86865331	12.65148998	10.12119198	7.590893988	4.638879659	3.795446994	2.530297996
0.08	17.23547752	12.92660814	10.34128651	7.755964884	4.739756318	3.877982442	2.585321628
0.085	17.58731869	13.19048902	10.55239121	7.91429341	4.836512639	3.957146705	2.638097803
0.09	17.92561899	13.44421424	10.75537139	8.066528544	4.929545221	4.033264272	2.688842848
0.095	18.25161054	13.68870791	10.95096632	8.213224744	5.019192899	4.106612372	2.737741581
0.1	18.56635533	13.9247665	11.1398132	8.354859901	5.105747717	4.17742995	2.7849533
0.105	18.87077592	14.15308194	11.32246555	8.491849165	5.189463378	4.245924582	2.830616388
0.11	19.16567943	14.37425957	11.49940766	8.624555743	5.270561843	4.312277871	2.874851914
0.115	19.45177652	14.58883239	11.67106591	8.753299436	5.349238544	4.376649718	2.917766479
0.12	19.72969659	14.79727245	11.83781796	8.878363468	5.425666564	4.439181734	2.959454489
0.125	20	15	12	9	5.5	4.5	3
0.13	20.26318808	15.19739106	12.15791285	9.118434634	5.572376721	4.559217317	3.039478211
0.135	20.51971136	15.38978352	12.31182682	9.233870112	5.642920624	4.616935056	3.077956704
0.14	20.76997641	15.57748231	12.46198584	9.346489383	5.711743512	4.673244692	3.115496461
0.145	21.01435149	15.76076362	12.60861089	9.45645817	5.77894666	4.728229085	3.152152723
0.15	21.25317138	15.93987854	12.75190283	9.563927123	5.844622131	4.781963561	3.187975708
0.155	21.48674142	16.11505606	12.89204485	9.669033639	5.90885389	4.834516819	3.223011213
0.16	21.71534093	16.2865057	13.02920456	9.77190342	5.971718757	4.88595171	3.25730114
0.165	21.93922621	16.45441966	13.16353573	9.872651794	6.033287208	4.936325897	3.290883931
0.17	22.15863303	16.61897477	13.29517982	9.971384862	6.093624082	4.985692431	3.323794954
0.175	22.37377884	16.78033413	13.4242673	10.06820048	6.152789181	5.034100239	3.356066826

RANGE AND TRAINING REGULATIONS

All Personnel Shooting in this Facility Must have current Qualification

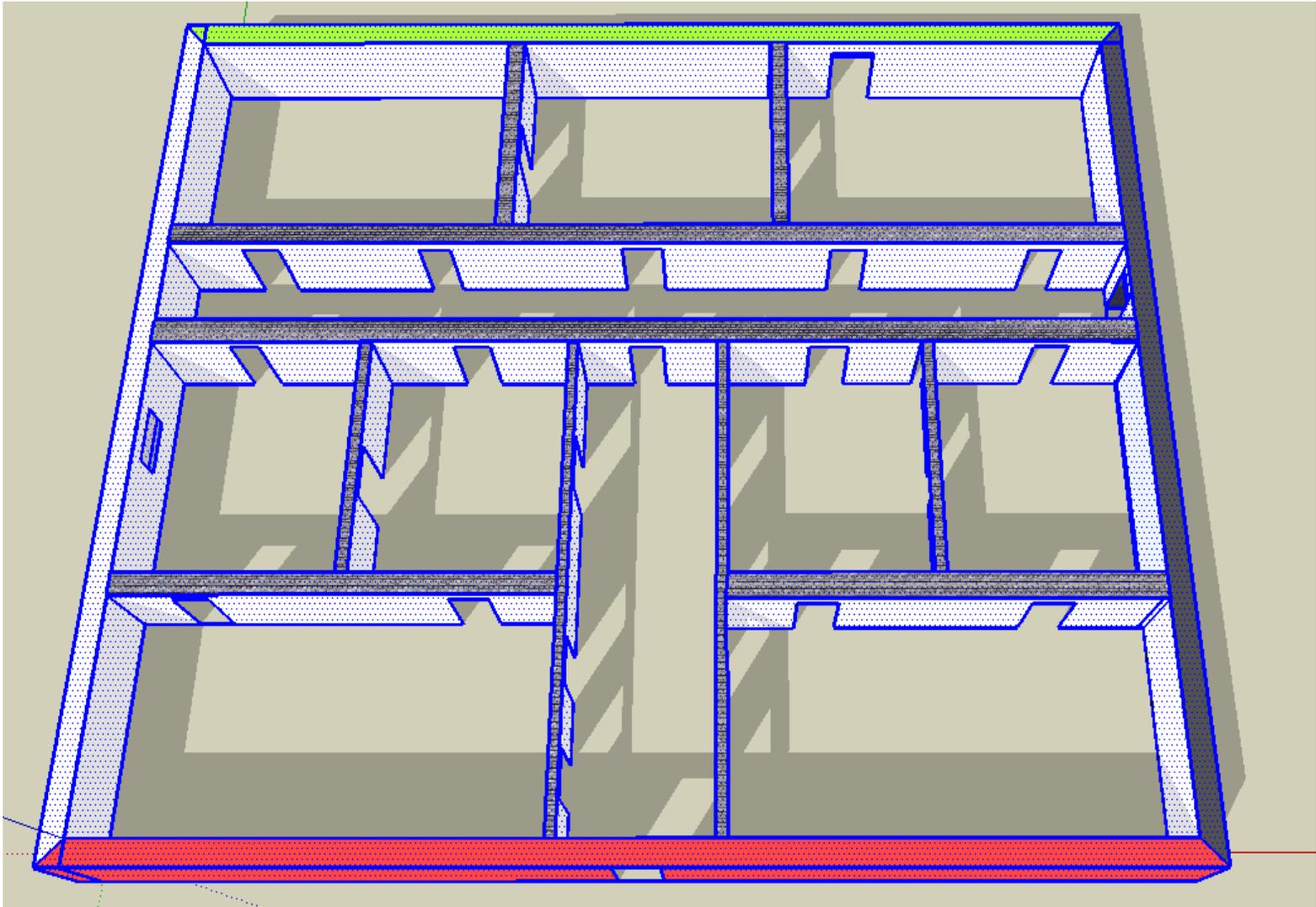
ALL TARGETS SHALL BE PLACED ON BULLET TRAPS

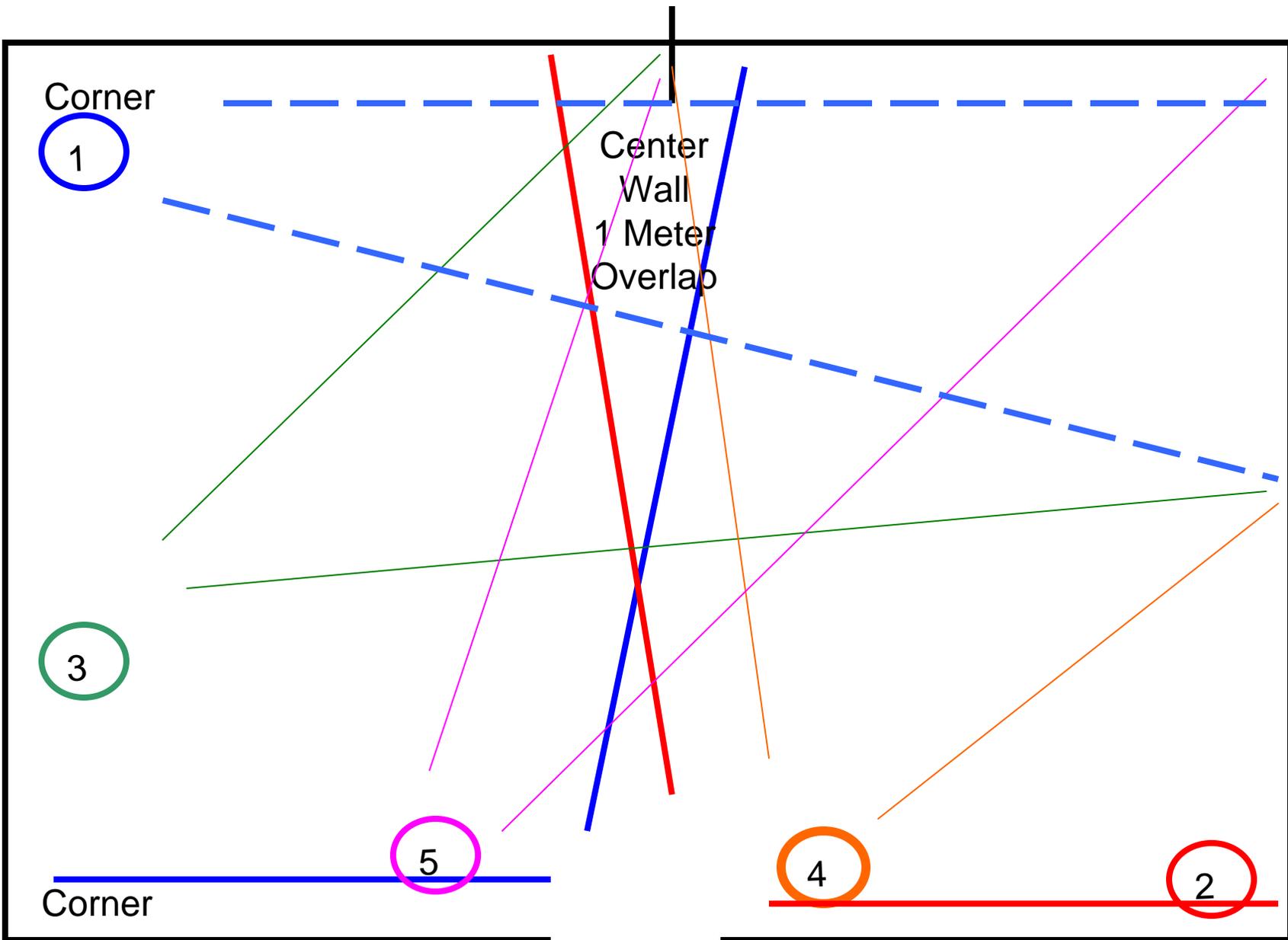
K FACTOR

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

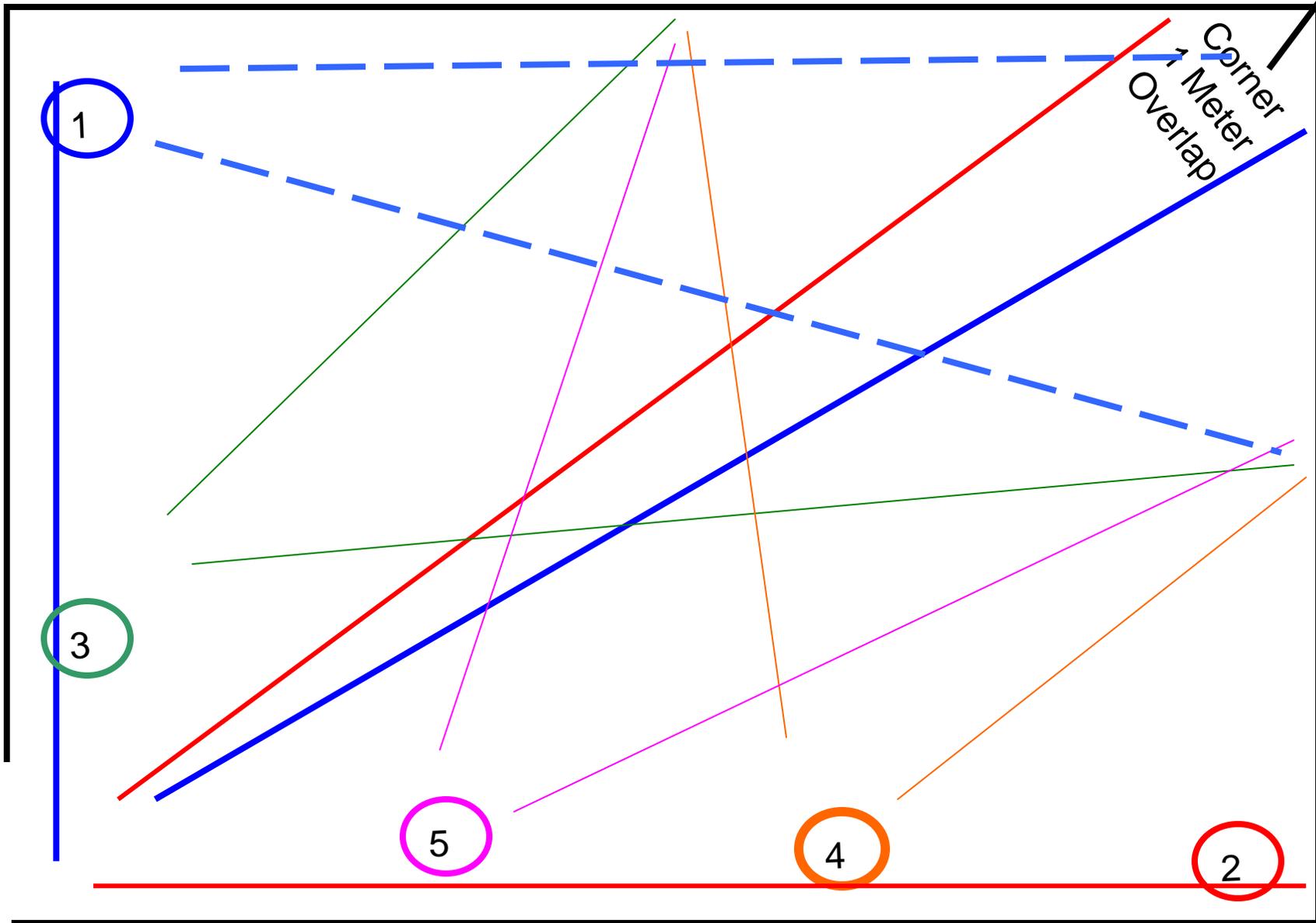
Distance in Feet From Detonation

0.18	22.58486469	16.93864852	13.55091882	10.16318911	6.210837791	5.081594556	3.387729704
0.185	22.79207686	17.09405765	13.67524612	10.25643459	6.267821137	5.128217294	3.418811529
0.19	22.99558832	17.24669124	13.79735299	10.34801474	6.323786787	5.174007371	3.449338247
0.195	23.19555999	17.39666999	13.91733599	10.438002	6.378778997	5.219000998	3.479333999
0.2	23.39214191	17.54410643	14.03528514	10.52646386	6.432839024	5.263231929	3.508821286
0.205	23.58547416	17.68910562	14.1512845	10.61346337	6.486005394	5.306731686	3.537821124
0.21	23.77568781	17.83176586	14.26541269	10.69905951	6.538314148	5.349529757	3.566353172
0.215	23.96290566	17.97217924	14.3777434	10.78330755	6.589799056	5.391653773	3.594435849
0.22	24.14724295	18.11043221	14.48834577	10.86625933	6.64049181	5.433129663	3.622086442
0.225	24.32880798	18.24660599	14.59728479	10.94796359	6.690422195	5.473981796	3.649321197
0.23	24.5077027	18.38077703	14.70462162	11.02846622	6.739618243	5.514233108	3.676155405
0.235	24.68402317	18.51301738	14.8104139	11.10781043	6.788106372	5.553905213	3.702603476
0.24	24.85786005	18.64339504	14.91471603	11.18603702	6.835911513	5.593018511	3.728679007
0.245	25.02929898	18.77197424	15.01757939	11.26318454	6.88305722	5.631592271	3.754394847
0.25	25.198421	18.89881575	15.1190526	11.33928945	6.929565774	5.669644725	3.77976315





Corner



Corner

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

