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U.S. Army Garrison-West Point DPTMS – Range Operations Policy & Procedures

Standard Operating Procedure Range 17 Fire and Movement Range



Department of the Army
U.S. Army Garrison West Point
United States Military Academy
West Point, New York 10996-5000

Document History

Document Location

All hard copies will be located at Building 1403 Range Operations Fire Desk. Also, electronic copies may be retrieved via DPTMS website (Training Link), or upon request.

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Approvals

This document requires the following approvals:

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Distribution Formula

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1. General Information

1.1 Purpose

This Standard Operating Procedure (SOP) provides standard instructions and checklists for unit and individuals using Range 17: Fire and Movement Range (FMR). It defines standardized steps and procedures to be followed for its safe and efficient use.

This SOP is directive based and complies with applicable United States Military Academy and Department of the Army Regulations, current doctrine, policy and guidance.

1.2 Applicability

This SOP is designed to provide units with safe range operating procedures and guidelines. It applies to all units of the U. S. Armed Forces, civilian organizations, and individuals who are authorized to use this range or training facility at West Point, and by all applicable users IAW West Point Regulation 350-11 and DA Pam 385-63, dated 12 May 2009.

1.3 Responsibility

Use this SOP in conjunction with AR 385-63, DA Pam 385-63 and West Point Reg. 350-11 which provide specific and detailed range firing responsibilities for using units. These directed and required actions are necessary for the safe conduct of all range firing and training. Full compliance IAW the afore-mentioned regulations as well as steps and procedures of this SOP, is the responsibility of the commanders, as well as the personnel of using organizations or units. Personnel of any non-DoD civilian agency or activity, using West Point ranges and training facilities must also comply with the provisions and requirements outlined in West Point Reg. 350-11.

1.4 References

All required and related publications are those covering the training conducted and those listed in the applicable chapters and Appendix A of West Point Reg. 350-11 or other respective regulations, policies and procedures. Additional references are also listed at Appendix A, of AR 385-63 and DA Pam 385-63.

1.5 Suggested Improvements

The proponent of this Standard Operating Procedure (SOP) is the Director of Plans, Training, Mobilization and Security, U.S. Army Garrison West Point, ATTN: DPTMS, Building 621 Wilson Road, United States Military Academy, West Point, New York 10996-5000. Users are encouraged to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms).

2. Range Description & Characteristics

2.1 Range Description & Definitions



2.1.1 Range Description

Range 17: Fire and Movement Range (FMR) is used to train individual soldiers and buddy/teams on basic fire and movement techniques against stationary targets. Soldiers show their ability to select covered and concealed positions, move while under simulated fire, apply principles of teamwork, and use suppressive fire to defeat enemy soldier stationary targets. The maneuver area of the range is approximately 50-75 meters in width, and approximately 300 meters in depth. There are various firing positions (log walls, berms, depressions) as the team maneuvers down the range.

2.2 Range Location

The FMR is located in Training Area Z1, on Range Road 1, vicinity grid WL84408020. It is accessible off of Hwy 9W, south of the 9W and 293 intersections. A key is needed to access this range.

2.3 Standard Supported Courses of Fire

The FMR is a two-man fire and maneuver range that supports individual movement techniques in a live fire environment. The maximum number of personnel is four (4) live shooters. A Live-Fire standardization package (LFSP) IS REQUIRED when using this range. Reference West Point Reg 350-11.

NOTE:

Use of Range 17 for SLFX supporting CST (USCC Personnel Only) is approved under the following conditions: Approved by DMI 6; Deliberate Risk Assessment is prepared with DMI 6 signature; CONOP approved by Range Operations; SRTA ammunition only. A signed Deliberate Risk Assessment and LSP is necessary. Use of pyrotechnics or digging outside range boundaries is strictly prohibited. Other specific conditions will be addressed in SLFX LSP.

2.4 Authorized Weapons & Ammunition

WEAPON CALIBER	AMMUNITION DODIC
M16/M4 Rifle	A059, AA33, AB Series 5.56mm EPR, SRTA
* M18A1 Claymore Mine	K143 (Only authorized for DMI CST)

2.5 Range Specific Safety Measures

2.5.1 Danger Areas

WEAPON SYSTEMS FIRING	DANGER TRAINING AREAS
M16/M4 Rifle	D1, D3, D4, D5, D6 and E2

2.5.2 Range Gate Guard Requirements

A range gate guard will be posted at the northern entrance to the parking lot on Range 1.

2.5.3 Range and Gate Closures

The FMR range requires the closure of the following:

GATES	RANGES
Gate # 5 on Range Road 1, will be closed and locked.	NA
Gate # 6 on Range Road 2 will be closed and locked.	
Gate # 15 on Range Road 2, will be closed and locked.	

2.6 Range Targetry

The FMR range supports the following targetry:

TARGET DESCRIPTION	TARGET NSN
Stationary Infantry Targets (9 Permanent Locations)	
Target, Silhouette, Plastic E-Type	
NOTE: Targets will not be moved from permanent locations without prior approval by Range Operations. Any new target location requires extensive coordinated and validation by Range Operations to ensure targets are not damaged by live fire.	

2.7 Range Support Facilities

The FMR has two ammunition issuing points and bleachers to support operations.

Authorized Parking

Military Vehicles – Limited to range support vehicles at the rear of the range complex.

Civilian Privately Owned Vehicles (POVs) – At the northern entrance of Range 1, parking lot.

2.8 Communications

All live fire ranges must maintain two separate means of communication with Range Operations at all times. Primary means of communication with Range Operations will be by Motorola Handheld “LIVEFIRE” Channel. ~~Alternate means of communication will be by FM radio.~~

There is a commercial phone located in the range tower on Range 1, the number is (845) 938-2464.

A quick reference phone index is located at the front of this SOP binder.

3. Range Safety & Security Procedures

3.1 Individual Hearing Hazard Zone

DA Pam 40-501 specifies that hearing protection is required for any exposure noise decibel greater than 140 dBP. All personnel within the 140 dBP hearing hazard zone will wear approved single point hearing protection. The size varies based upon the weapons system being used. Multi-use ranges will establish the zone based on the loudest weapon used. The following list of distances to the hazard contours for common military weapons is conservative (m = meters):

- a. 5.56mm: 24 m to the side, 6 m to the rear.

3.2 Individual Personal Protection Equipment (PPE)

- a. Ballistic (Kevlar or Army Combat Helmet (ACH) **WILL** be worn for safety and protection by all military personnel. This requirement applies to firer's and non-firer's (coaches, range personnel) alike.
- b. Individual Body Armor (IBA) or Flak Jackets use is recommended. This reinforces appropriate combat conditions and proper training environment of any weapon marksmanship training program.
- c. Eye Protection. All personnel engaged in any live fire activity **WILL** wear individual approved eye protection.
- d. Hearing Protection. All personnel engaged **WILL** wear approved single point hearing protection. This requirement applies to firer's and non-firer's (coaches, range personnel) alike.

3.3 Weapons Handling

- a. Weapons will be carried in such a manner that the muzzle of the weapon is always pointed up and down range.
- b. Weapons will only be live (loaded) while inside the designated firing box. Authorization to maneuver with live weapons outside of the firing box will require a Deviation and will be specifically addressed in the Deliberate Risk Assessment.
- c. All weapons will be inspected by the OIC or RSO before firing and upon completion of firing prior to leaving the range to include when using blank ammunition. ALL weapons will be cleared by use of the weapons clearing barrels at the rear of the range and visually verified by the Range OIC or RSO upon entering or exiting the firing line.
- d. Blank and live ammunition will **NOT** be used on the FMR at the same time. Additionally, blank and live ammunition will utilize different ammunition issuing points.
- e. Under **NO** circumstances will any weapon be removed from the firing line while loaded or when suspected of having a round in the chamber or receiver.
- f. Weapons will NOT be left unattended.
- g. Weapons will not be stored in a building or connex overnight on any range or training area.

3.4 Ammunition Handling & Storage

All training ammunition, pyrotechnic items or explosive material will be handled and stored IAW Chapter 2, FM 9-13 and DA Pam 385-64. Issuing and accounting for all training ammunition and explosive items will be IAW Chapter 11, DA Pam 710-2-1 (Supply Update). Contact the West Point Ammunition Supply Office for specific procedures for requesting, drawing and turning in ammunition and any residue.

Using units are responsible for the physical security, safeguarding, storing, and handling and will ensure the ammunition or explosive items are protected from the weather.

3.5 Army Range Safety Memorandums/Messages (ARSMMs)

Interim changes may be published to AR or DA Pam 385-63 as Army Range Safety Memorandums/Messages (ARSMMs). A file of all current ARSMMs is maintained at Range Operations. Range OIC/RSO personnel will be familiar with ARSMMs associated with specific training being conducted prior to conducting operation on the range.

3.6 Unexploded Ordnance (UXO) and Reporting of Duds

Do NOT touch or disturb any Unexploded Ordnance (UXO) encountered. Leave any UXO discovered in place, including all rounds observed as falling into or within the designated range impact area but which fail to function (detonate). All rounds that fall into the common impact area, but fail to detonate will be reported to Range Operations at the conclusion of the range firing.

If a round, a suspicious item or ordnance, or a UXO item is found outside a designated range firing impact area do NOT disturb the item. Conspicuously mark the item, route traffic a safe distance around. Report the UXO immediately to Range Operations and initiate a dud report.

NOTE: Due to the area surrounding Range 17 being classified as Impact Area (Historical), use of pyrotechnics or digging is strictly prohibited.

3.7 Ammunition Amnesty Program

The Ammunition Amnesty Program is designed to ensure maximum recovery of ammunition and explosives. This program is not intended to circumvent normal turn-in procedures. Small arms ammunition (up to and including 7.62mm) may be placed in the amnesty barrel next to Building 1403. Other munitions and ammunition above 7.62mm will be retrieved only by EOD, ASP or Range Operations personnel. Documentation is not required for turn-in under the Ammunition Amnesty Program. Contact West Point ASP Office at commercial telephone 938-3216 for further information.

4. Range Operational Requirements/Responsibilities

4.1 Range Officer in Charge (OIC) / Range Safety Officer (RSO) Appointment Requirements

WEAPON SYSTEM	OFFICER IN CHARGE (OIC)			RANGE SAFETY OFFICER (RSO)		
	OFF	CADET	NCO	OFF	CADET	NCO
Practice hand grenade simunitions training devices; simulators, and small arms (5.56mm and below)	X	N/A	E6(P)	X	X (Wpns Qualified)	E5(P)
Chemical Agents (CS) and smoke	X	N/A	E6 (MOS Qualified)	X	N/A	E5
Aerial gunnery, live grenades, grenade launchers, grenade machine guns; Live mines, and demolitions.	X	N/A	E7	X	N/A	E6
Field Artillery and LASER ranges	X (0-3)	N/A	N/A	Battery XO X	N/A	N/A
Fire and Movement Range (FMR) or LFX using organic weapons, team through squad.	X	N/A	N/A	X	N/A	E7
Mortars	X	N/A	N/A	X	N/A	E6
Direct fire antitank rockets	X	N/A	E7	X	N/A	E6
Specialty Non-LFX Courses	X	N/A	E6	X	X	X
Specialty Non-LFX Courses (Rappel) * Rappel Master Certified	X*	N/A	E7*	X	N/A	E6

Table 4-1, OIC / RSO Appointment Requirements

4.2 Range Officer in Charge (OIC)

The Range OIC holds the responsibility and accountability for the conduct of the activity and the adherence to governing regulations and guidance.

4.2.1 OIC Qualifications

A commissioned or warrant may serve as a Range OIC. Range OICs will be qualified on the weapon(s) systems being fired, and will have satisfactorily completed a range safety certification program in the weapon system(s) for which they are responsible conducted by their Battalion/Unit (O5 & above Command) to which they are assigned.

4.2.2 OIC Actions & Procedures before Range Occupation

STEP	ACTION	TAKEN
1	Thoroughly plan the range operation and/or training activity and determine the personnel and equipment support requirements.	
2	Be weapons system(s) qualified, and that his/her command safety certification and appointment is completed, and on file at Range Operations.	
3	Receive the mandatory Range Operations briefing within ONE DAY prior to use.	
4	Ensure a qualified RSO is command safety certified and appointed, and briefed by Range Operations. OIC briefs the RSO on his/her duties to be performed.	
5	Verify that all personnel in a direct supervisory role or safety position are familiar with the provisions of this SOP, West Point Reg. 350-11, AR/DA Pam 385-63, and the FM/TMs governing the weapon(s) system and ammunition to be fired.	
6	Ensures that the required and appropriate medical support personnel are qualified. All appropriate equipment and supplies are available to support the range operation(s) and/or training activity.	
7	Check in at Range Operations upon arrival to the installation to receive an updated briefing and sign for the range and necessary support equipment.	
8	Assign an Ammo NCO to be responsible for, and to ensure that ammunition and explosives are properly drawn, transported, handled, stored, and accounted for, from time of receipt, to the time of expenditure or turn in.	
9	Develops a composite risk management worksheet for all phases of the range operation(s) and/or training activity, and mitigate initial high and extremely high hazards through appropriate control measures, using DA Fm 2977.	

4.2.3 OIC Actions & Procedures before Operations

STEP	ACTION	TAKEN
1	Ensures the correct range/firing position and or training facility is occupied, and conducts a joint inventory with a Range Operations representative to verify the presence and condition of the range facilities and equipment.	
2	Conducts a Range OIC brief to the RSO, Range Safety Assistants, Medical NCO, Assistant Instructors, Ammunition detail, and Range Gate Guards reinforcing their duties and responsibilities on the conduct of the range operation.	
3	Directs and supervises that the required designated areas of the range are established and set up as required/planned.	
4	Establishes primary radio and secondary telephone communications with Range Operations, and notifies Range Operations upon initial occupation.	
5	Ensures that the red range flag is displayed during daylight operations, and that the red flashing light on the flag pole is displayed during periods of limited visibility.	
6	Verify that the down range portion of the range and impact area are clear of unauthorized personnel and that the appropriate range specific safety measures for range gates, barriers, gate guards and danger areas directed by Range Operations have been taken (Refer to paragraph 2.5 of this SOP).	
7	Verify that the required medical personnel and equipment support is on site, with strip maps to local medical treatment facilities is present, prior to requesting a HOT status.	
8	Verify the continuous safety and security of ammunition on the range. Under NO circumstances will ammunition or explosives be unguarded or unattended. Ammunition must be stored in the designated area and NO smoking is allowed within 50 feet of the ammunition or the firing line.	
9	Verify that all weapons are mechanically safe to fire.	

10	Verify that all personnel wear the required personal protection equipment.	
11	Ensures that ONLY authorized courses of fire are conducted per the weapon system.	
12	Ensure all applicable references and regulations are physically present and on hand:	
13	Notifies Range Operations and requests permission to place the range in a HOT status (Refer to paragraph 7.1).	
14	Implements risk management actions and applicable control measures identified for this phase of the range operations and/or training event.	

4.2.4 OIC Actions & Procedures during Operations

STEP	ACTION	TAKEN
1	Be present at all times on the range while the range is in a HOT status, and maintain a constant observation of the firing line at all times during range firing.. Be prepared to meet and brief all range visitors/VIPs, and Range Operations personnel.	
2	Verify that all personnel prior to firing receive a range safety briefing, and that only authorized weapons and ammunition are about to be used.	
3	Ensures that the left and right range limits are marked and identified by red blinking lights or chem-lights during periods of reduced visibility.	
4	Verify that the quantity of ammunition unpacked at the designated ammunition storage site is kept to the minimum number of rounds needed for efficient firing for the exercise/course of fire being conducted.	
5	Notifies Range Operations when first round is fired down range (Refer to paragraph 7.2).	
6	Ensures that primary and secondary means of communication with Range Operations are maintained, and that hourly radio checks are performed (Refer to paragraph 7.8)	
7	Ensures that communications are maintained with all road/gate guards.	
8	Verify that personnel and/or weapons do NOT move to or leave the firing line without being cleared, and only on permission by the Range Safety Officer.	
9	Maintains a constant observation of the firing line at all times, and that the down range safety danger areas remain clear.	
10	Immediately calls or announces a self-imposed "Cease Fire" and notifies Range Operations when (Refer to paragraph 7.5):	
10a	Any unsafe action is observed or reported by ANY individual observing an unsafe act.	
10b	When communications are lost with Range Operations and/or Gate Guards.	
10c	When any personal injury, major weapon or ammunition malfunction occurs.	
10d	When any personnel, vehicle, animal or aircraft is observed down range, or in the safety zone danger areas.	
10e	When a range or woodland fire is observed.	
10f	Whenever the OIC, RSO, or medical support leaves the range	
11	Verify that all weapon malfunctions are handled IAW applicable FM/TM.	
12	Ensures that all misfires or cook-offs are handled IAW appropriate FM/TM.	
13	Notifies Range Operations when a change in OIC/RSO is needed (refer to paragraph 7.7).	
14	Notifies Range Operations when last round is fired down range (refer to paragraph 7.3).	
15	Implements risk management actions and applicable control measures identified for this phase of the range operations and/or training event.	

4.2.5 OIC Actions & Procedures after Operations

STEP	ACTION	TAKEN
1	Notify Range Operations upon completion of firing/training and request permission to go COLD (reference procedure 7.4). Be prepared to report:	
1a	Number of personnel trained.	
1b	Number of rounds expended by type and DODAC.	
2	Verify 100% accountability for all weapons and ammunition.	
3	Verify that ALL personnel are searched for ammunition and brass prior to their departure from the range.	
4	Contact Range Operations for range clearance/inspection after performing the following:	
4a	Range flag is lowered and red blinking lights are recovered (if applicable).	
4b	Police range for all brass. All brass, prescribed CL V recoverable items, packing material and unexpended ammunition are returned to the ASP.	
4c	Police range for all trash and place in local dumpster. NO MREs, kitchen waste or CL V ammunition dunnage will be placed in the dumpsters.	
4d	Check overall condition of the range to include all range support facilities and repair any range targets if applicable.	
4e	Road barriers, gates are re-opened and gate guards are recovered.	
4f	Hand receipted range equipment and supplies are recovered, cleaned and prepared for turn-in.	
5	Conduct a joint inventory IAW range clearance agreement with a Range Operations representative for clearance of range/training area.	
6	Return all hand-receipted range equipment, along with any applicable reports/forms to Range Operations.	

4.3 Range Safety Officer (RSO)

A direct representative of the Range OIC and responsible to the OIC for insuring the adequacy of safety of firing, training operations, and ensuring compliance to governing regulations and guidance.

4.3.1 RSO Qualifications

A commissioned, warrant, or noncommissioned officer may serve as the RSO. NCO grade requirements will be in accordance with Table, 4-1 above, at a minimum. Personnel assigned as RSO will have NO other duties during that period of training. RSOs will be qualified on the weapon(s) systems being fired, and will have satisfactorily completed a range safety certification program in the weapon system(s) for which they are responsible conducted by their Battalion/Unit (O5 & above Command) to which they are assigned.

4.3.2 RSO Actions & Procedures before Operations

STEP	ACTION	TAKEN
1	Assist the Range OIC in the planning of the range operation and/or training activity when needed or as applicable to ensure its safe and efficient operation.	
2	Be weapons system(s) qualified, and that his/her command safety certification and appointment is completed, and on file at Range Operations.	
3	Receive the mandatory Range Operations briefing prior to use of range/training facility.	
4	Ensure that all personnel appointed to assistant range safety positions are qualified and familiar with the provisions of this SOP, West Point Reg. 350-11, AR/DA Pam 385-63, and the FM/TMs governing the weapon(s) system and ammunition to be fired.	

5	Ensure that all personnel appointed to assistant range safety officer (ARSO) roles are briefed. Recommended ratio of ARSO's to shooters is 1:5.	
6	Ensures that the down range portion of the range and visible portion of the impact area are clear of unauthorized personnel prior to range OIC requesting the range be placed in a HOT status.	
7	Ensures that the required medical personnel and equipment support is on site and remains on site at all times while the range is in a HOT status.	
8	Ensures the continuous safety and security of ammunition on the range.	
9	Assist the Range OIC when needed or as applicable to ensure that the requirements for procedures 4.2.2 and 4.2.3 above are met.	

4.3.3 RSO Actions & Procedures during Operations

STEP	ACTION	TAKEN
1	Be present at all times on the range firing line while the range is in a HOT status, and perform NO other duties except that of the RSO. Ensure safety is paramount.	
2	Receive and organize firing orders, and conduct the following:	
2a	Ensure that all personnel prior to firing receive a range safety briefing, and that only authorized weapons and ammunition are about to be used.	
2b	Ensures that all weapons are mechanically safe to fire.	
2c	Ensures that all personnel wear the required personal protection equipment, and that left handed firers have brass deflectors installed on their weapon.	
2d	Verifies the proper type and quantity of ammunition issued to each firer, and ensures that ammunition unpacked is kept to a minimum to ensure efficient firing of the course of fire being conducted.	
3	Ensures that all personnel and/or weapons do NOT move to or from the firing line without being cleared, and only on the permission of the RSO.	
4	Maintain a constant observation of the firing line at all times, and that the visible down range safety area remains clear.	
5	Ensures that all weapons engage targets ONLY within their prescribed lane markers, and that all rounds fired down range remain within the prescribed range limits.	
6	Immediately announces and calls for a self-imposed "CEASE FIRE" and notifies the Range OIC when any of the following is heard or observed:	
6a	Any unsafe action is observed or reported by ANY individual observing an unsafe act.	
6b	When any personal injury, major weapon or ammunition malfunction occurs.	
6c	When any personnel, vehicle, animal or aircraft is visually observed down range.	
6d	When a range or woodland fire is observed.	
6e	Whenever the medical support leaves the range.	
7	Ensure that the range ammo issue point maintains accurate and proper accountability of all CL V items during operations on DA Fm 3020-R.	
8	Ensure that all weapon malfunctions are handled IAW appropriate FM/TM.	
9	Ensures that all misfires or cook-offs are handled IAW applicable FM/TM.	
10	Notifies Range OIC when a change in RSO is needed (refer to paragraph 7.7).	

4.3.4 RSO Actions & Procedures after Operations

STEP	ACTION	TAKEN
1	Ensure 100% accountability for all weapons and ammunition.	
2	Ensure that ALL personnel are searched for ammunition and brass prior to their departure from the range.	

3	Report to the Range OIC upon completion of firing/training the following:	
3a	The number of rounds expended by type and DODAC that was issued and tracked by the ammo issue point NCOIC.	
3b	The police of brass on the firing line, and that all brass, prescribed CL V recoverable items, packing material and unexpended ammunition has been accounted for and is prepared for turn-in to the ASP.	
3c	The police of the range overall for all trash, and that the designated areas of the range that were established are recovered back to the original condition.	
3d	That all range targetry repair has been completed if applicable, and that the overall condition of the range and support facilities are in the original condition if applicable.	
3e	All hand receipted range equipment and supplies are recovered, cleaned and prepared for turn-in to the Range OIC and/or Range Operations.	
4	Assist the Range OIC when needed or as applicable to ensure that the requirements for procedures 4.2.5 above are met.	

4.4 Range Gate Guards

The Range OIC will ensure gate guards are posted and gates are locked as required for the range being utilized as outlined in paragraph 2.5. Gate guards will be briefed on their duties, the training that is being conducted and perform their duties IAW West Point Reg. 350-11. Personnel acting as gate guards will:

STEP	ACTION	TAKEN
1	Greet all visitors, provide a short explanation of the training being conducted, identify the Range OICs name and location on the range, and warn of live firing as appropriate. They will direct authorized visitors to a specific location where the visitors will be met by the Range OIC. When entrance to the range is not authorized, the gate guard will advise visitors to wait or to use another route.	
2	Maintain <u>continuous</u> radio communications with Range Operations or with the Range OIC accordingly. The arrival of visitors will be reported immediately to the Range OIC. If the gate guard is unsure whether a visitor is authorized on the range, the gate guard will contact the Range OIC for clarification before granting entrance.	
3	Remain at the gate shack or the gate if no shack is present. Maintain the assigned gate while the range is occupied.	
4	POV's will NOT be used to assist in barrier control or gate guard duty.	
5	Permit Range Operations personnel and vehicles full and un-restricted access to all ranges and training areas while performing their assigned duties.	

NOTE: The Range 17 FMR OIC will allow Range Inspectors to inspect the Range during live fire training. Inspections will be accomplished by the Range Inspector and Unit Representative following the trailing element at a distance of 25m. The Range Inspector is not required to be in PPE.

5. Range Medical Requirements & Evacuation

5.1 Unit Medical Support Requirements

Units will comply with the following range medical support requirements:

- a. Using units will provide the following medical support:
 - (1) A MOS certified medic or EMT equivalent. This individual will be equipped with a litter, radio communication, and a Combat Lifesaver (CLS) aid-bag, containing all required CL VIII items that have a valid expiration date.
 - (2) A dedicated medical evacuation vehicle, capable of transporting a litter, and properly equipped, and with a current PMCS. CLS personnel assigned to these ranges, along with the supporting medical vehicle, will not be used for any other duty.

5.1.1 Execution

- a. Using unit medical personnel will review and familiarize themselves with the strip map route(s) to KACH ER and the local community hospital prior to live fire range operations are conducted.
- b. Whenever the dedicated medical aid person or vehicle must leave the area for any reason the range must Cease Fire and remain in a "COLD" status until a replacement is provided, or until the assigned vehicle and medical personnel have returned to the range. Range Operations will then grant the unit permission to re-open the range and place the range in a "HOT" status.
- c. Medical support personnel at the range will provide treatment for minor injuries and basic first-aid for life-threatening injury or illness.
- d. Medical evacuation vehicles will display all frequencies and telephone numbers in case of immediate use:
 - a. Range Operations Frequency is Motorola Handheld on "LIVEFIRE" Channel.
 - b. West Point Fire & Emergency Services Division – 845.938.5197
 - c. Range Operations VHF 126.20.
 - d. KACH ER – 845.938.4004 / 5169.

5.2 Keller Army Community Hospital (KACH)

Injuries and/or illness requiring immediate emergency support will be immediately reported to the KACH ER, with the location of the range site for patient evacuation by KACH.

5.3 Serious Incident Report (SIR) Requirements

Full and immediate medical attention directed at the patient is the first and foremost priority. As soon as possible, the Range OIC or RSO will contact Range Operations and report the medical injury/accident. Be prepared to provide at a minimum "the Five W's" (Who, What, When, Where and Why).

5.4 Emergency MEDEVAC Flight Requests

West Point does NOT have organic MEDEVAC capability to support training complex operations, therefore using units and organizations will plan medical evacuation with their own organic assets. Stat Flights are for the emergency evacuation of injured personnel by air ambulance. Only the emergency first responder on site, DES dispatcher or KACH medical personnel are authorized to request or terminate a MEDEVAC mission. To obtain a Stat Flight, contact Range Operations by Motorola Handheld "LIVEFIRE" or by telephone at (845)938-3930. After Hours the Military Police Dispatch at (845)938-3333. Air Frequency is VHF 126.20.

9-LINE MEDEVAC		
ANNOUNCED		LINE INFO DESCRIPTION
LINE	LINE INFO	
1		Location of the Pick-Up site by 6-digit grid and any prominent terrain features nearby.
2		Unit Identification
3	A= B=	Number of Patients by evacuation category/precedence A=Urgent (requires immediate evacuation to prevent loss of life B=Priority (serious injury, but <u>NOT</u> life threatening
4	A= B= C= D=	Special equipment needed: A=none B=hoist C=extraction equipment D=ventilator
5	A= B=	Number of patients A=litter B=ambulatory
6		Number and types of wounds, injuries and illnesses
7		Method of marking landing zone/pick-up site A=panels B=pyrotechnic signal C=smoke signal D=none E=other
8		Patient nationality and status A=US military B=US civilian C=other (describe)
9		Terrain description of pick-up site, any site hazards; if none=so state

5.5 Hospital Strip Maps & Directions

5.5.1 Keller Army Community Hospital

Reference Tab 11A, Local Strip Map to Keller Army Community Hospital

5.5.2 St. Lukes Community Cornwall Campus Hospital, Cornwall, NY

Reference Tab 11B, Local Strip Map to Saint Lukes Community Hospital.

6. Range Concept of Operations

- a. No alterations to the FMR configuration are authorized. No additional firing positions or target emplacements may be built by using units unless approved by Range Operations.
- b. NO overhead fire is authorized on this range. When conducting fire and movement techniques with two or more, ensure that a 15-degree lateral separation is maintained between fires (i.e. personnel CANNOT occupy the area to the front of another firer within a 15-degree angle from the weapon-target line).
- c. A Live-Fire Standardization Package (LFSP) is required on this range if conducting team fire and movement live fire exercises. The LFSP is required 14-days in advance and includes:
 - 1) A Deliberate Risk Assessment (DRA) Worksheet identifying the operational hazards, controls measures and implementation procedures to mitigate all identified risks and hazards.
 - 2) A concept sketch or storyboard that illustrates firing positions, target locations and movement of personnel.
 - 3) FMR scenario that includes step-by-step listing of engagements by weapon and ammunition.
 - 4) Required resources for type and amount of automated and stationary targets, firing position emplacements (facades, knee-highs, half-walls), and any service orders for consideration of tree and/or shrub removal.
- d. The first scheduled day on the FMR is a **“SET UP”** day and **is a Non-firing day** dedicated to maintenance and setting up the range. Units should NOT plan to live fire, but may plan for a final proofing of the range on the set up day. Range Operations must observe final validation prior to any live-fire training being conducted.

6.1 Fire & Movement Tactical Procedures

- a. When a unit makes contact with the enemy, it normally starts firing at and moving toward the enemy. This technique is called fire and movement – one element maneuvers (or moves) while another provides a base of fire. It is conducted to close with and destroy the enemy.
- b. The firing and moving takes place at the same time. There is a fire element and a movement element. These elements may be two-man buddy teams, or a maximum of a four man team. Regardless of the size of the elements, the action is still fire and movement.
- c. The fire element covers firing at and suppressing the enemy. This helps keep the enemy from firing back at the movement element.
- d. The movement element moves either to close with the enemy or to reach a better position from which to fire at him. The movement element should not move until the fire element is firing.
- e. Depending on the distance to the enemy position and on the available cover, the fire element and the movement element switch roles as needed to keep moving. Before the movement element moves beyond the supporting range of the fire element (the distance in which the weapons of the fire element can fire and support the movement element), it should take a position from which it can fire at the enemy. The movement element then becomes the next fire element and the fire element becomes the next movement element.

6.1.1 Individual Movement Techniques

- a. Your leaders base their selection of a particular movement technique by traveling, traveling over watch, or bounding over watch on the likelihood of enemy contact and the requirement for speed. However, your team's ability to move depends on your movement skills and those of your fellow Soldiers.
- b. Use the following techniques to avoid being seen or heard:
 - 1) Stop, look, listen, and smell (SLLS) before moving. Look for your next position before leaving a position.

- 2) Look for covered and concealed routes on which to move.
 - 3) Change direction slightly from time-to-time when moving through tall grass.
 - 4) Stop, look, and listen when birds or animals are alarmed (the enemy may be nearby).
 - 5) Cross roads and trails at places that have the most cover and concealment (large culverts, low spots, curves, or bridges).
 - 6) Avoid steep slopes and places with loose dirt or stones.
 - 7) Avoid cleared, open areas and tops of hills and ridges, which will skyline movement.
- c. In addition to walking, you may move in one of three other methods known as individual movement techniques (IMT) — low crawl, high crawl, or rush.
- 1) **Low Crawl.** The low crawl gives you the lowest silhouette. Use it to cross places where the cover and/or concealment are very low and enemy fire or observation prevents you from getting up.
 - 2) **High Crawl.** The high crawl lets you move faster than the low crawl and still gives you a low silhouette. Use this crawl when there is good cover and concealment but enemy fire prevents you from getting up. If you have been firing from one position for some time, the enemy may have spotted you and may be waiting for you to come up from behind cover. So, before rushing forward, roll or crawl a short distance from your position. By coming up from another spot, you may fool an enemy who is aiming at one spot and waiting for you to rise. When the route to your next position is through an open area, use the 3 to 5 second rush. When necessary, hit the ground, roll right or left, and then rush again.
 - 3) **Rush.** The rush is the fastest way to move from one position to another. Each rush should last from 3 to 5 seconds. Rushes are kept short to prevent enemy machine gunners or riflemen from tracking you. However, do not stop and hit the ground in the open just because 5 seconds have passed. Always try to hit the ground behind some cover. Before moving, pick out your next covered and concealed position and the best route to it.

7. Radio Procedures

7.1 Requesting a Hot Status

RANGE: RANGE OPERATIONS, THIS IS RANGE 17, OVER

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS. GO AHEAD, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 17. REQUEST A HOT TIME, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS, DO YOU PHYSICALLY HAVE ON SITE REQUIRED MEDICAL SUPPORT WITH EQUIPMENT, RANGE SAFETY SOP BINDER, RED RANGE FLAG FLYING AND GATE GUARD WITH COMMO, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 17, YES, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS. I GIVE YOU A HOT TIME OF _____ HOURS. MY INITIALS ARE _____. CONFIRM HOT TIME AND SEND YOUR RANGE OIC INITIALS, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 17. I CONFIRM HOT TIME OF _____. RANGE OIC INITIALS ARE _____, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS. NOTIFY RANGE OPERATIONS WHEN FIRST ROUND IS FIRED DOWN RANGE. CONDUCT RADIO CHECKS WITH RANGE OPERATIONS HOURLY AT THE TOP OF THE HOUR, YOUR FIRST RADIO CHECK IS DUE AT _____. RANGE OPERATIONS OUT.

7.2 Reporting First Round Fired Down Range

RANGE: RANGE OPERATIONS, THIS IS RANGE 17, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS. GO AHEAD, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 17. FIRST ROUND FIRED DOWN RANGE, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS. I COPY FIRST ROUND FIRED DOWN RANGE AT _____, RANGE OPERATIONS OUT.

7.3 Reporting Last Round Fired Down Range

RANGE: RANGE OPERATIONS, THIS IS RANGE 17, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS. GO AHEAD, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 17. LAST ROUND FIRED DOWN RANGE, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS. I COPY LAST ROUND FIRED DOWN RANGE AT _____, RANGE OPERATIONS OUT.

7.4 Requesting a Cold Status

RANGE: RANGE OPERATIONS, THIS IS RANGE 17, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS. GO AHEAD, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 17. REQUEST A COLD TIME, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS. I GIVE YOU A COLD TIME OF _____. MY INITIALS ARE _____. CONFIRM COLD TIME, SEND YOU RANGE OIC INITIALS, YOUR AMMUNITION QUANTITY EXPENDED BY TYPE/DODAC AND THE NUMBER OF PERSONNEL TRAINED, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 17. I CONFIRM COLD TIME OF _____. RANGE OIC INITIALS ARE _____. _____ (#) ROUNDS OF _____ (DODAC) EXPENDED, WITH _____ (#) PERSONNEL TRAINED, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS, ROGER, OUT.

7.5 Requesting a Cease Fire Time

RANGE: RANGE OPERATIONS, THIS IS RANGE 17, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS. GO AHEAD, OVER.

RANGE: THIS IS RANGE 17, REQUEST A CEASE FIRE TIME, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS. I GIVE YOU A CEASE FIRE TIME OF _____ HOURS. MY INITIALS ARE _____. CONFIRM CEASE FIRE / ADMIN COLD TIME AND PROVIDE YOUR RANGE OIC INITIALS, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 17. I CONFIRM CEASE FIRE TIME OF _____. MY RANGE OIC INITIALS ARE _____, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS, ROGER, OUT.

7.6 Requesting to Lift Cease Fire Time

RANGE: RANGE OPERATIONS, THIS IS RANGE 17, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS. GO AHEAD, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 17. REQUEST TO LIFT CEASE FIRE TIME AND RETURN TO A HOT STATUS, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS. I LIFT YOUR CEASE FIRE TIME STATUS AND PLACE YOU BACK INTO A HOT STATUS AT _____ HOURS. MY INITIALS ARE _____. CONFIRM RETURN TO HOT STATUS AND PROVIDE YOUR RANGE OIC INITIALS, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 17. I CONFIRM RETURN TO HOT STATUS TIME OF _____. MY RANGE OIC INITIALS ARE _____, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS, ROGER, OUT.

7.7 Change of OIC / RSO.

RANGE: RANGE OPERATIONS, THIS IS RANGE 17, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS. GO AHEAD, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 17. REQUEST A CHANGE OF OIC (or RSO), OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS. SEND THE LAST NAME AND THE INITIALS OF THE NEW RANGE OIC (or RSO), WITH YOUR INITIALS, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 17. NEW OIC / RSO LAST NAME IS _____, NEW OIC / RSO INITIALS ARE _____. MY INITIALS ARE _____, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS. ROGER, OUT.

7.8 Requesting a Radio Check (Hourly at the Top of the Hour)

RANGE: RANGE OPERATIONS, THIS IS RANGE 17. RADIO CHECK, OVER.

RANGE OPERATIONS: RANGE 17, THIS IS RANGE OPERATIONS, ROGER RADIO CHECK, OUT.

8. Range Safety Brief

All firers will be briefed on the following items. This general safety brief is not all inclusive and requires the Range OIC / RSO to include commander's guidance, and/or any unit specific or other situational dependent areas of concern.

NOTE: Insert range, weapon and course of fire specifics that are required and/or applicable.

1. Identify the Range Officer in Charge (OIC) and the Range Safety Officer (RSO) at a minimum.
2. Identify the Location of Range Staff Cadre:
 - a) Range OIC and RSO
 - b) Assistant Range Safeties
 - c) Medic & the Evacuation Vehicle
 - d) Ammo Issue Point/Breakdown Building and CL V NCO
 - e) Others as required
3. Prescribed uniforms and personal protection requirements (hearing, eye, helmet and IBA as applicable and required) while on the range.
4. Course of fire and standards for the weapon system being fired.
5. Locations: Break/Smoking Areas, latrines, mess area, firing line and/or firing points, clearing barrels, parking and bleacher site. Also include any off limit or restricted areas.
6. Ammunition holding area/ issue point procedures & security.
7. Left, right limits, fire and no fire zones.
8. Procedures for Medical Emergency.
9. Procedures for range fires.
10. Severe weather plan, environmental requirements, issues and concerns.
11. Unit is responsible for a personnel & vehicle shakedown for ammo & brass. No one will leave the range until this has been completed.
12. If you observe ANY UNSAFE situation, personnel, vehicles, aircraft, or wildlife down range call & indicate "CEASE FIRE" IMMEDIATELY everyone on the firing line echo "CEASE FIRE". Place all weapons on safe until the OIC or RSO have investigated the situation and declared it safe to resume training.
13. Weapon malfunction apply immediate action to correct problem IAW appropriate FM if this fails apply remedial action, if this fails notify range RSO to assist in correcting the malfunction.
14. ALL WEAPONS WILL BE CLEARED PRIOR TO, AFTER AND BEFORE ANY WEAPON IS MOVED FROM THE RANGE. Once cleared off, turn in all ammunition and expended brass to AMMO POINT.
15. When not on the firing line the bolt will be locked to the rear and the weapon on safe. Consider the weapon loaded at all times never point it at anyone.
16. NO overhead fire is authorized. When conducting fire and movement techniques with more two or more personnel, ENSURE that fires are separated by a minimum lateral dispersion of 15 degrees when engaging down range targets (i.e. Personnel in front of a firer, CANNOT BE within a 15 degree angle from the azimuth of fire).
17. Blank and Live Ammunition **WILL NOT** be used on the Range at the same time. Blank and Live Ammunition will be issued from separate ammunition issuing points. No live ammunition will be issued prior to visually confirmation that blank adapters have been removed from weapons.
18. MUZZLE AWARENESS:
 - a) Maintain positive control of your weapon at all times, LEVEL & DOWN RANGE!
 - b) Keep finger OUTSIDE trigger guard until directed to engage &/or fire
 - c) Be sure of YOUR target!
 - d) Ensure soldiers fire weapon at designated targets only.

9. Risk Management & Mitigation

Range OIC will review, add and update DA Form 2977, Deliberate Risk Assessment Worksheet.

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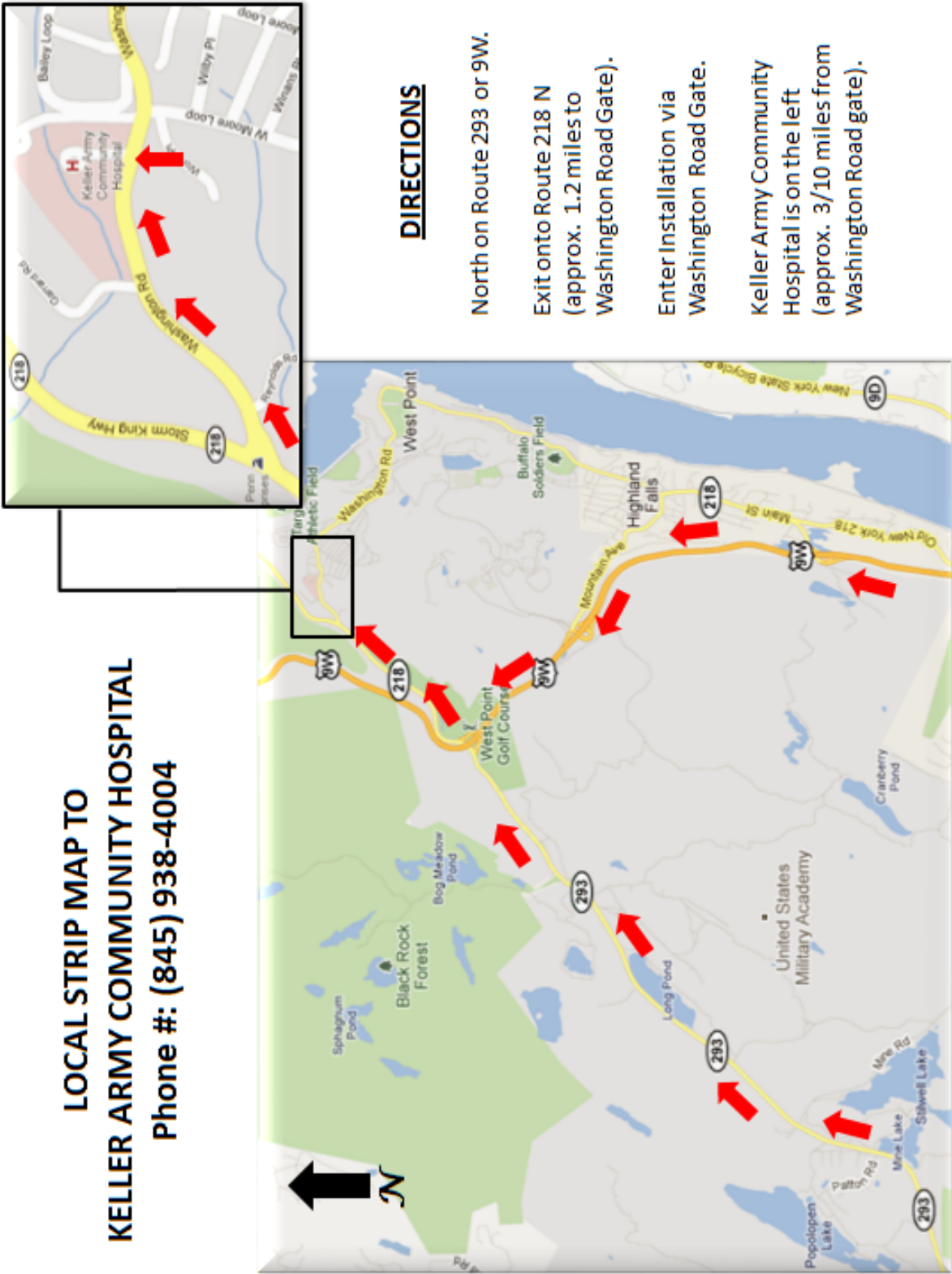
10. Range Safety Danger Zone (SDZ) Graphic

INSERT APPLICABLE
RANGE SDZ GRAPHIC

11. Reference Information, Reports & Forms

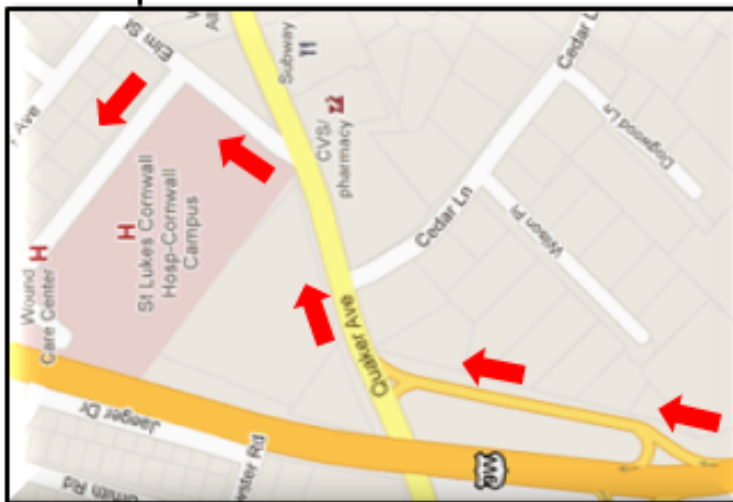
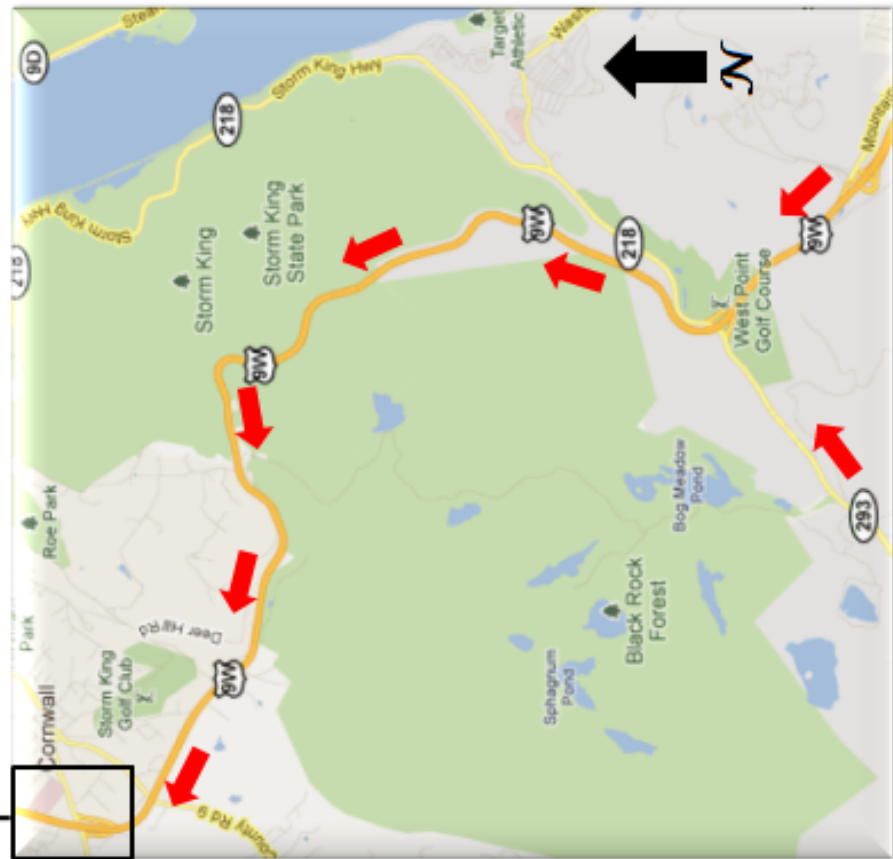
INDEX

TAB	NAME
11A	Local Strip Map to Keller Army Community Hospital
11B	Local Strip Map to Saint Luke's Cornwall Community Hospital
11C	Open



Tab 11A – Strip Map – Keller Army Community Hospital

**LOCAL STRIP MAP TO
ST. LUKES WOUND CARE CENTER
&
ST. LUKES CORNWALL HOSPITAL
Phone #: (845) 458-4512**



DIRECTIONS

- North on Route 293 or 9W.
- Continue North on 9W to Cornwall.
- Exit 9W onto Quaker Ave exit.
- Turn left onto Elm Street.

Tab 11B – Strip Map to St. Luke’s Cornwall Hospital