# Operational Graphics Standard Frame Shapes

Reference: ADP 1-02.2, Chapter 1, Table 1-1. Standard identities and physical domain frame shapes

					<u> </u>		
Standard Identities / Physical Domain	Friendly	Assumed Friend	Hostile	Suspect	Neutral	Unknown	Pending
Land unit			$\Diamond$				0
Land and sea surface equipment		0	$\Diamond$				
Air equipment (in flight)				A	N		
Air equipment (in space)							
Activity							
Installation							$\bigcirc$
Sea subsurface equipment	U			V		$\bigcirc$	0

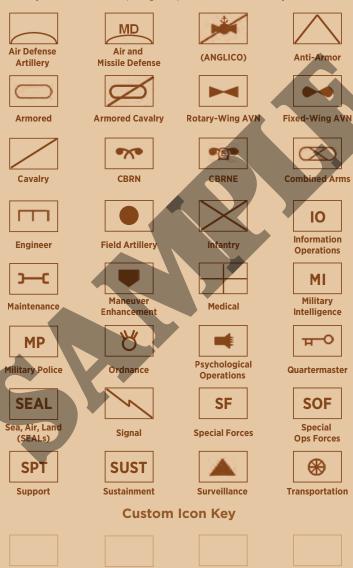
Status depicts whether an object exists at the location identified (status is "present" or "confirmed"), will in the future reside at that location (status is "planned" or "anticipated"), or is thought to reside at that location ("suspected").

Table 1-2. Friendly frame status examples in present, planned, or suspected status

Domain / Status	Space Equipment	Air Equipment	Land Unit	Land Equipment and Sea Surface	Land Installation	Sea Subsurface Equipment	Activity or Event
Present or confirmed position							
Anticipated, planned, or suspected position				0			

# Operational Graphics Main Unit Icons

Reference: ADP 1-02.2, Chapter 2, Table 2-7. Main icons for units



# Operational Graphics Tactical Mission Tasks

Reference: ADP 1-02.2, Chapter 6, Table 6-1 Tactical mission task symbols

Tactical mission task graphics are for use in course of action sketches, synchronization matrices, and maneuver sketches. They do not replace any part of the operation order. Tactical mission task symbols are sized to accommodate the scale of the display or map being used.



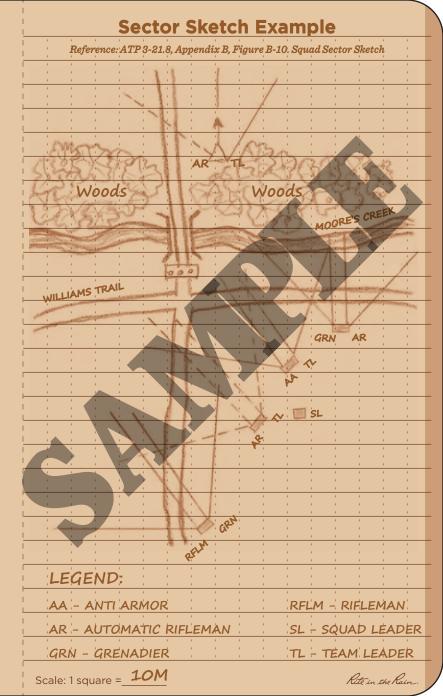
# **Sector Sketch Preparation**

Reference: ATP 3-21.8, Appendix B, page B-29; Sector Sketches

### **Squad Sector Sketch**

The squad leaders and section leaders make two copies of their sector sketches; one copy goes to the platoon leader, the other remains at the position. The squad leaders and section leaders draw sector sketches as close to scale as possible, showing—

- Main terrain features in the area of operation and the range to each.
- Each primary position.
- Engagement area or primary and secondary sectors of fire covering each position.
- M240B machine gun final protective line or principle direction of fire.
- M249 SAW final protective lines or principle direction of fires.
- Type of weapon in each position.
- Reference points and TRPs in the area of operation.
- Observation post locations.
- Dead space.
- Obstacles.
- Maximum engagement lines for all BFV weapon systems.
- Maximum engagement lines for Javelin (if applicable) and AT4s.
- Indirect fire targets.



# **Standard Range Card Preparation**

Reference: TC 3-21.75, Page 6-22, Automatic Weapon Range Card 6-36

Prepare two copies of the Range Card, a copy is kept with the vehicle or weapons position, and the other given to the section leader for his sketch.

### TO PREPARE A STANDARD RANGE CARD:

- Orient the card so both the primary and secondary sectors of fire (if assigned) can fit on it.
- Draw a sketch of terrain to the front of your position. Include any dead space, natural, and man-made features that could be targets or target reference points.
- Draw the Maximun Engagement Line (if assigned).
- Draw your position at the bottom of the sketch. Do not put in the weapon symbol at this time.
- Fill in the marginal data to include:
  - Gun number (or squad).
  - Unit (only platoon and company) and date time group.
  - Weapon system.
  - Magnetic north arrow.
- Annotate the 8-digit grid of the gun position -OR-
- Determine the location of your gun position in relation to a prominent terrain feature, such as a hilltop, road junction, or building within 1,000 meters of the gun position. Determine the distance from the terrain feature to the gun position using pace count, plotting on a map or GPS.
- Sketch in the terrain feature on the card in the lower left or right hand corner (whichever is closest to its actual direction on the ground) and identify it. Connect the sketch of the position and the terrain feature with a barbed line from the feature to the gun.
- Write in the distance in meters (above the barbed line). Write in the azimuth in degrees from the feature to the gun (below the barbed line).
- Annotate left and right limits in the data section at the bottom.
- Annotate targets and target reference points in the data section at bottom. Data for elevation and deflection is read from the traversing bar and T&E mechanism.
- Annotate FPL or PDF in the data section at bottom (if assigned).
- Draw weapon symbol at gun position.

**Range Card Preparation Example** For use of this form see ATP 3-21.8; the proponent agency is TRADOC. SQD May be used for all types of direct fire weapons. PIT MAGNETIC CO **NORTH** MEL DATA SECTION POSITION ID. 16S GA 0655 8363 Jan 2017 1422 HRS EACH CIRCLE EQUALS WFAPON M240B 200 **METERS** DIRECTION / DEFLECTION **ELEVATION** RANGE NO. AMMO DESCRIPTION Left limit. 75M Left of 0°1/2 1800M 7.62 farthest left intersection Right limit. Approx 800M 37°/657W +5° m 1800M 7.62 Right of RP6 Farthest left "T" +10° m 1450M 7.62 intersection Farthest Left bridge 4 +5° m 1050M 7.62 Bridge at the roughly L 355° 850M 5 -5° Wh 7.62 12 o'clock position Curve past bridge at R 5° +10°m 1250M 7.62 6 roughly 12 o'clock pos. REMARKS = Creek = Bridge

# **U.S. Army Troop Leading Procedures**

Reference: ATP 3-21.8, Appendix A, page A-2, Figure A-1 Parallel planning



## **U.S.M.C. Six Troop Leading Steps (BAMCIS)**

Reference: Tactical Planning B2B2367, page 8, Six Troop Leading Steps

	BAMCIS
Begin Planning	Execute the tactical thought process: METT-TC>EMCLOA>EXP>SOM>FSP>Tasks
Arrange for Reconnaissance	Plan reconnaissance to answer remaining questions about the enemy and terrain, choose the method to validate assumptions and the tentative SOM. and determine the coposition of the reconnaissance patrol.
Make Reconnaissance	Conduct the reconnaissance to get "Eyes on the Enemy"
Complete the Plan	Revisit the tactical thought process with information collected during reconnaissance: METT-TC>EMCLOA>EXP>SOM>FSP>Tasks
ssue the Order	Effectively communicate the plan over the terrain model.
Supervise	Supervise subordinates' execution of orders through completion of the mission.

Acronym	Definition or Identification
METT-TC	Mission, Enemy, Terrain and weather, Troops and support available, Time/space/logistics, Civil considerations
EMLCOA	Enemy's Most Likely Course of Action
EXP	EXploitation Plan of the enemy's vulnerability
SOM	Scheme of Maneuver
FSD	Fire Support Plan

CBRN 1 Report
Reference: FM 6-99, Appendix A, Page A-48, A-49, Table A-31.
Report Number: C010

GENERAL INSTRUCTIONS: Use to provide the observer's initial report giving basic data on a chemical, biological, or nuclear attack.

giving	dasic data on a chemical, biological, or nuclear attack.
1. D	ate and TimeDTG
<b>2.</b> U	nit unit making report
3. E	vent type of incident: NUCLEAR, BIOLOGICAL, or CHEMICAL
A —	CBRN strike serial number
В —	location of the observer and the direction of the attack
D —	DTG of detonation of beginning of attack or detonation and the end of the event)
F-	UTM or six-digit grid coordinate with MGRS grid zone designator of attack and code used to represent if reported location of attack is actual or estimated)
G —	means of delivery and quantity
н-	type of burst, biological or chemical agent, and persistency
1-	release information on biological or chemical agent attacks
IR —	release of sampling information on radiological incidents
J —	time in seconds denoting flash-to-bang DTG of nuclear attack
L-	nuclear burst angular cloud width measured at five minutes after detonation
м —	stabilized cloud measurement at H+10 minutes of nuclear burst cloud
MŘ –	description and status of chemical, biological, radiological incidents
	terrain, topography, and vegetation description
Y —	downwind direction and wind speed
Z-	measured weather conditions
4. TI	TIME DTG of observation
5. N	arrative free text for additional information required for report clarification
6. A	uthentication report authentication
	CNRN 1 Report Acronym and Abbreviation Key
	CBRN — Chemical, Biological, Radiological, and Nuclear

Date-Time Group

Military Grid Reference System

**Universal Transverse Mercator** 

DTG

MGRS

UTM

# 9-line IED / UXO REPORT

Line 1.	Date	Tin	ne Grou	p Dis	covered	l.		
DD			НН			МММ		YEAR
Line 2.	Repo	rtir	ng Activi	ty: U	nit Ident	tification Coc	de and lo	ocation (grid of UXO).
UIC		8 1	DIGIT GE	RID		LOCATION		_
DETAILS								
Line 3.	Cont	act	Method	: Rac	dio Freq	/ Call Sign, I	POC, Ph	one Number.
FREQ		CA	ALL SIGN	<b>V</b>		POC		PH. #
Line 4.	Desc	ribe	e Item D	etail	s (Witho	out approach	ing-due	Placed, or Thrown. to potential tripwire) g). Hazard Area.
DROPPED PROJECT PLACED THROWN	ED [		# of UX		HAZAR	B AREA		
Line 5.	NBC	Coı	ntamina	tion:	Known	or suspected	d, report	type of agent.
YES  NO	AGE	NT			DETAIL	.5		
Line 6.	Reso	urc	es Threa	atene	d: Repo	rt any assets	that are	e threatened.
EQUIPME	NT			FAC	CILITY		ОТН	ER
Line 7.	Impa	ct	n Missi	on. C	urrent t	actical situat	ion. Do	es UXO affect status?
	74							
Line 8.	Prote	ecti	ve Meas	ures:	: Measur	es taken to p	protect p	personnel/equipment.
Line 9.	Reco	mn	nended	Prior	ity: Res	oonse by EO	D techni	icians or engineers.
IMMEDIA	ATE	1				er and mission e mission.	n capabi	lity, or threatens
INDIREC	т					er and missio to the missio		lity, or threaten
MINOR					it's mane ts of valu		sion capa	ability, or threatens
NO THR								

## Game Plan and 9 Line CAS Brief

Reference: ATP 3-09.30, Chapter 4 page 4-14, Figure 4-4 CAS 9-Line.

Do not transmit the numbers. Units of measure are standard unless briefed. Lines 4, 6, and any restrictions are mandatory readbacks. The Joint Terminal Attack Controller (JTAC) may request an addittional feedback.

Attack Controll	er (JTAC) may request an addittional feedback.	
JTAC: "	, advise when ready for game plan."	
JTAC: "Type (1.	, 2, 3) control (method of attack, effects desired or	
ordnance inter	val). Advise when ready for 9-Line."	
1. IP / BP: "_		,, _
2. Heading: "	degrees magnetic, initial point or battle position to-target	"
Offset: "	left or right. when requested	"
3. Distance: "	initial point-to-target in nautical miles, battle postion-to-target in meters	
4. Target eleva	ition: " In feet, mean sea level	- "
5. Target descr	ription: "	,,
6. Target locat	ion: " latitude and longitude or grid coordinates, or offsets or visual	<b>9</b> 3
7. Type mark /	terminal guidance: " description of the mark, if laser handoff, call of sign lasing platform and code	,,,
8. Location of	friendlies: " from target, carinal direction and distance in meters	<b>9</b> 9
Postion mar	ked by: "	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
9. "Egress		,,,

### Remarks / \*restrictions:

- Laser to target line (LTL) / pointer target line (PTL)
- Desired type and number of ordnance or weapons effects (if not previously coordinated).
   Surface-to-air threat, location, and type of SEAD.
- Additional remarks (e.g., gun-to-target line, weather, hazards, friendly marks).
- Additional calls requested.
- \*Final attack headings or attack direction.
- \*Airspace coordination areas (ACAs).
- \*Danger close and initials (if applicable).
- \*Time over target (TOT) / time to target (TTT).
- \*Post launch abort restrictions (if applicable).
- IP initial point
- BP battle position

Note: For off axis weapons, the weapons final attack heading may differ from the aircraft heading at the time of release. The aircrew should inform JTAC when this occurs and ensure weapon final attack headings comply with given restrictions.

## **Spot Report (SPOTREP)**

Reference: FM 6-99, Appendix A, Page A-196, Table A-138. Report Number: S055

#### **GENERAL INSTRUCTIONS:**

Use to report intelligence or status regarding events that could have an immediate and significant effect on current and future operations. This is the initial means for reporting troops in contact and event information.

1.	<b>Date and Time</b>	DTG
2.	Unit	unit making report
3.	Size	size of detected element
4.	Activity	detected element unit, organization, or facility
5.	Location	UTM or grid coordinate with MGRS grid zone designator of detected element activity or event
6.	Unit	detected element unit, organization, or facility
7.	Time	DTG of observation
8.	Equipment	equipment of element observed
9.	Assessment	apparent reason or purpose of the activity observed
0.	Narrative fr	ee text for additional information required for report clarification
11.	Authentication	report authentication

### **Spot Report Acronym and Abbreviation Key**

DTG — Date-Time Group

MGRS — Military Grid Reference System

UTM — Universal Transverse Mercator

# **Basic Management Plan for Care Under Fire**

- 1. Return fire and take cover.
- 2. Direct or expect casualty to remain engaged as a combatant if appropriate.
- 3. Direct casualty to move to cover and apply self-aid if able.
- 4. Try to keep the casualty from sustaining additional wounds.
- 5. Casualties should be extricated from burning vehicles or buildings and moved to places of relative safety. Do what is necessary to stop the burning process.
- 6. Stop life-threatening external hemorrhage if tactically feasible:
  - a. Direct casualty to control hemorrhage by self-aid if able.
  - b. Use a CoTCCC-recommended limb tourniquet for hemorrhage that is anatomically amenable to tourniquet use.
  - c. Apply the limb tourniquet over the uniform clearly proximal to the bleeding site(s). If the site of the life-threatening bleeding is not readily apparent, place the tourniquet "high and tight" (as proximal as possible) on the injured limb and more the casualty to cover.
- 7. Airway management is generally best deferred until the Tactical Field Care phase.

### The Management Care Plan for Tactical Field Care

begins with disarming any casualty with an altered mental status. Armed casualties pose a significant risk to others in their unit if they employ their weapons inappropriately. In the combat setting, altered mental status may be caused by traumatic brain injury, shock, or medications. Then, the MARCH algorithm is used.

- M Massive Hemorrhage Assessment.
- A Airway Assessment.
- R Respiratory Trauma Assessment.
- C Circulatory Assessment.
- **H** Head Trauma Assessment and Hypothermia Assessment.

All care rendered will be documented on the TCCC\* Casualty Card before the casualty is evacuated to the next level of care. Don't forget to communicate as much as possible to the casualty.

**Tactical Evacuation** (TACEVAC) - casualties are transported to a higher level of care. TACEVAC care encompasses both medical evacuation (MEDEVAC) and casualty evacuation (CASEVAC) as defined in Joint Publication 4-02.

Reference: FIM 8-10-6, Medical Evacuation in a Theater of Operations, pages 7-7 through 7-9.

LINE ITEM	EXPLANATION
1. Location of Pickup Site.	Exerypt gra coordinates. When using DRXAD Numeral Cipher, the same SET line will be used to encrypt grid zone letters and coordinates. To preclude misunderstanding, a statement is made that grid zone letters are included in the message (unless unit SOP specifies its use at all times).
2. Radio Frequency, Call Sign, Suffix.	Encrypt the frequency of the radio at the pickup site, not a relay frequency. The call sign (and suffix if used) of person to be contacted at the pickup site may be transmitted in the clear.
3. Number of Patients by Precedence.	Report only applicable into & encrypt brevity codes. A = Urgent, B = Urgent-Surg, C = Priority, D = Routine, E = Convenience. (If 2 or more categories reported in same request, insert the word "break" btwn. each category.)
4. Special Equipment.	Encrypt applicable brevity codes. A = None, B = Hoist, C = Extraction equipment, D = Ventilator.
5. Number of Patients by Type.	Report only applicable information and encrypt brevity code. If requesting MEDEVAC for both types, insert the word "break" between the litter entry and ambulatory entry. L + # of Pnt - Litter, A + # of Pnt - Ambul (sitting).
6. Security of Pickup Site (Wartime).	N = No enemy troops in area, P = Possibly enemy troops in area (approach with caution), E = Enemy troops in area (approach with caution), X=Enemy troops in area (armed escort required).
6. Number and type of Wound, Injury, Illness (Peacetime).	Specific information regarding patient wounds by type (gunshot or straphel). Report serious bleeding, along with patient blood (ype, if known.
7. Method of Marking Pickup Site.	Encrypt the brevity codes. A = Panels, B = Pyrotechnic signal, C = Smoke Signal, D = None, E = Other.
8. Patient Nationality and Status.	Number of patients in each category need not be transmitted. Encrypt only applicable brewity codes. A = US military, B = US civilian, C = Non-US mil, D = Non-US civilian, E = EPW.
9. NBC Contamination (Wartime).	Include this line only when applicable. Encrypt the applicable brevity codes. N = nuclear, B = blological, C = chemical
9. Terrain Description (Peacetime).	Include details of terrain features in and around proposed landing site. If possible, describe the relationship of site to a prominent terrain feature (lake, mountain, tower).

Reference: FM8-10-6, Medical Evacuation in a Theater of Operations, pages 7.7 through 7-9.

