RANGE LAYOUT DRAWINGS
SMALLARMS RANGES

TC 25-8 FIGURE NUMBER	FCC *	TITLE	LAYOUT DRAWING DATE	RDG SECTION
1	17801	25m Zero	April-05	X
2	17803	Automated Field Fire Range	April-05	X
3	17805	Automated Record Fire Range	September-06	X
4	17806	Modified Record Fire Range	April-07	X
5	17809	Qualification Training Range	October-10	X
6	17810	Known Distance Range	September-06	
7	17812	Automated Sniper Field Fire Range	October-10	X
9	17822	CPQC/MPFQC	April-10	X
10	17829	Heavy Sniper	February-10	X
11	17833	Multipurpose Machine Gun	October-10	X
31	17891	Infiltration Course	August-05	
32	17892	Fire and Movement Range	April-05	X
33	17893	Squad Defense Range	April-05	X
34	17895	Infantry Squad Battle Course	April-05	X
35	17897	Infantry Platoon Battle Course	April-05	X
38	17771	Convoy Live Fire Range w/ECP	January-11	

RANGE AND TRAINING LAND PROGRAM
MANDATORY CENTER OF EXPERTISE
RANGE DESIGN GUIDE

U. S. ARMY ENGINEERING AND
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US Army Corps of Engineers

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FEBRUARY 2011

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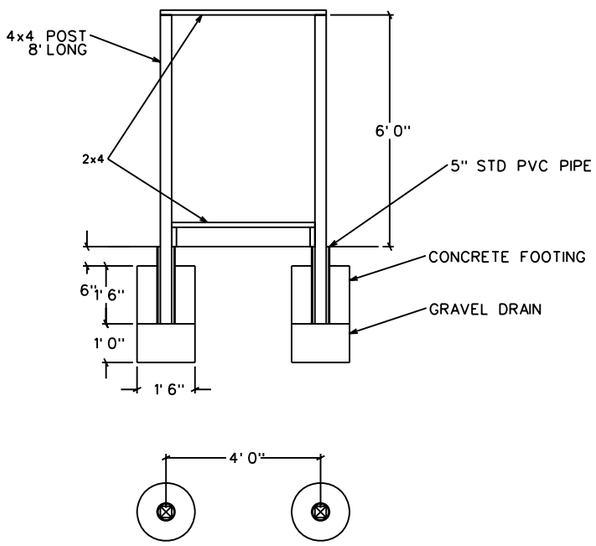
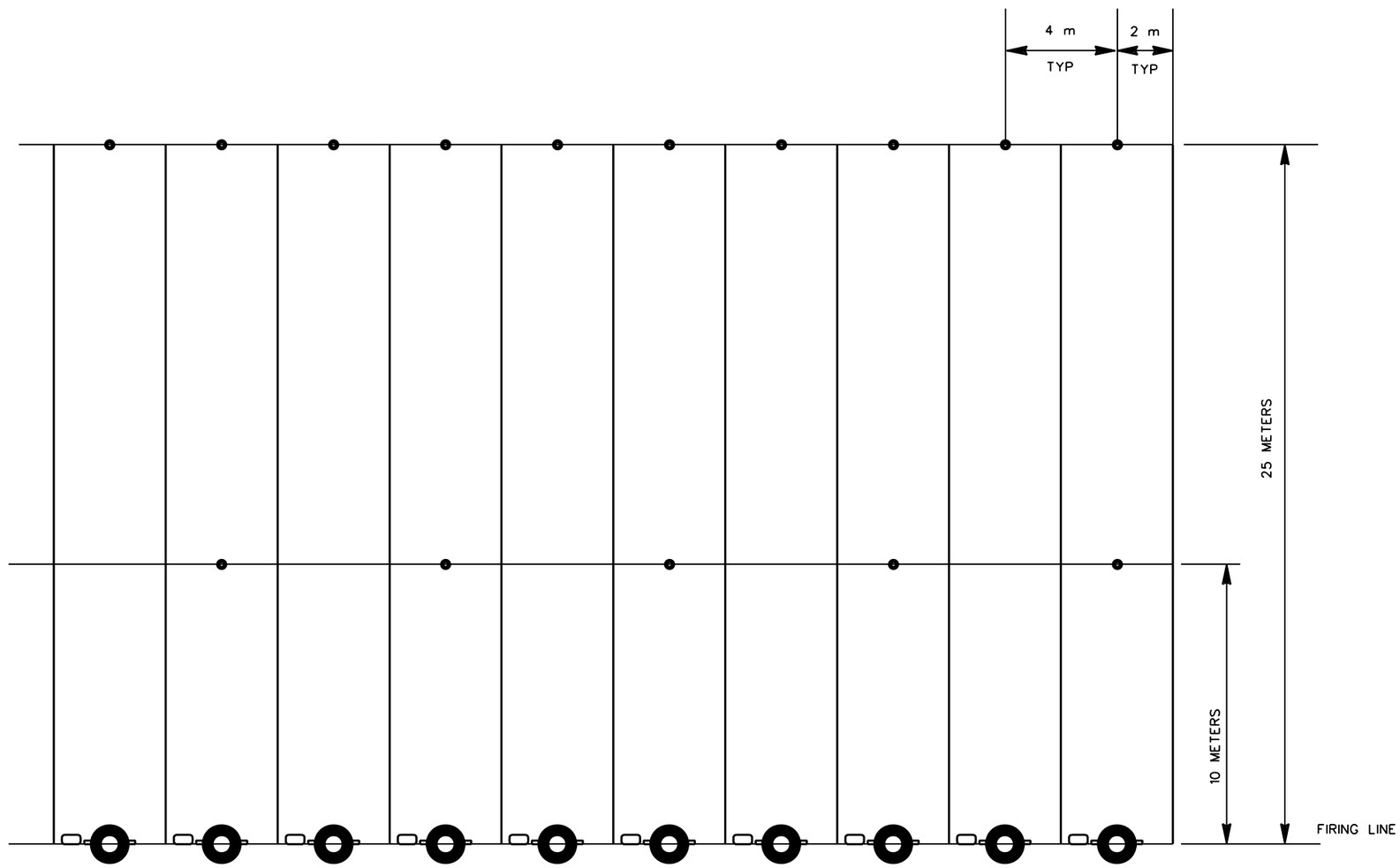
COVER SHEET

Sheet reference number:
RL-00

Sheet of



TARGET BOOT DETAIL



LEGEND

- FOXHOLE FIRING POINT
- V-NOTCH RIFLE RESTING PEG
- SANDBAGS
- TARGET BOOT

NOTES:

10 LANES SHOWN OF 32 LANE RANGE

FIRING POINT AND TARGET ARE ON A FLAT PLANE +/- 1°

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15 APR 2005

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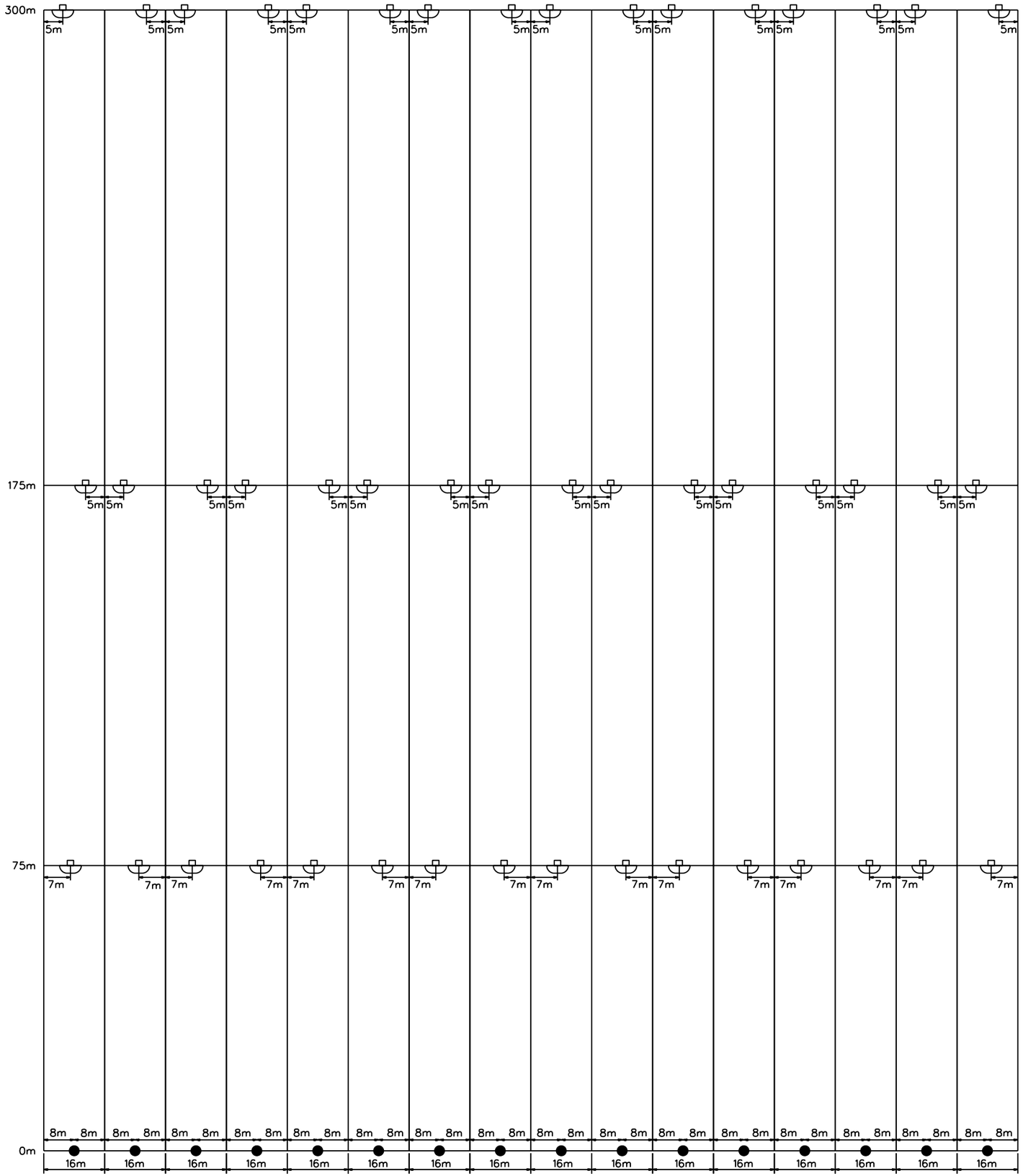
FCC= 17801
25 M ZERO RANGE

Sheet reference number:
25Z-C-1

Sheet of



LEGEND

STATIONARY INFANTRY TARGET EMPLACEMENT

FOXHOLE

NOTE:

16 LANES OF A 32 LANE RANGE SHOWN

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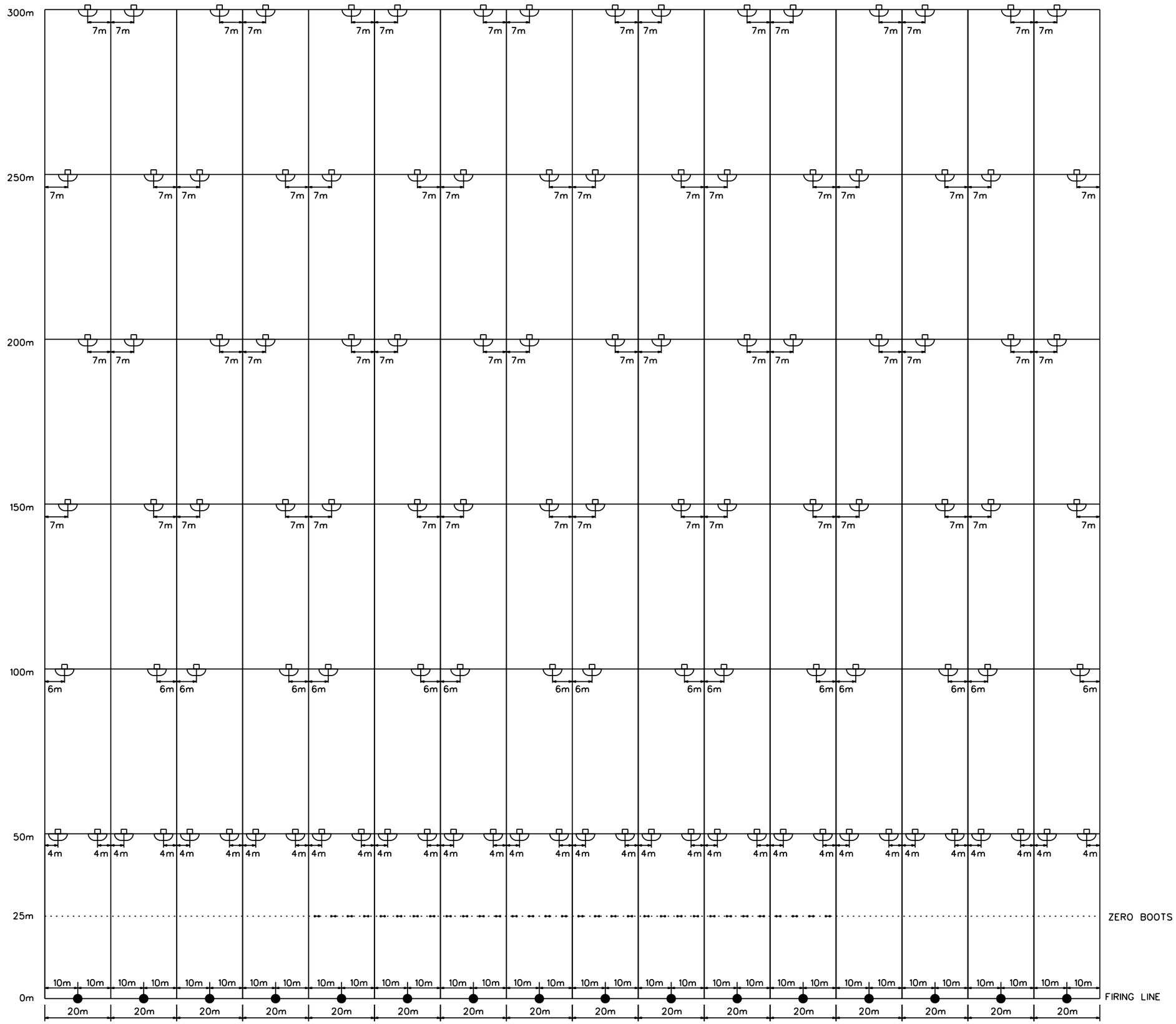
FCC= 17803
AUTOMATED FIELD FIRE RANGE

Sheet reference number:
AFF-C-01

Sheet of



LEGEND

STATIONARY INFANTRY TARGET EMPLACEMENT

FOXHOLE

TARGET BOOT

US Army Corps of Engineers

Rev.	Description	Date	Approved

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RANGE AND TRAINING LAND PROGRAM
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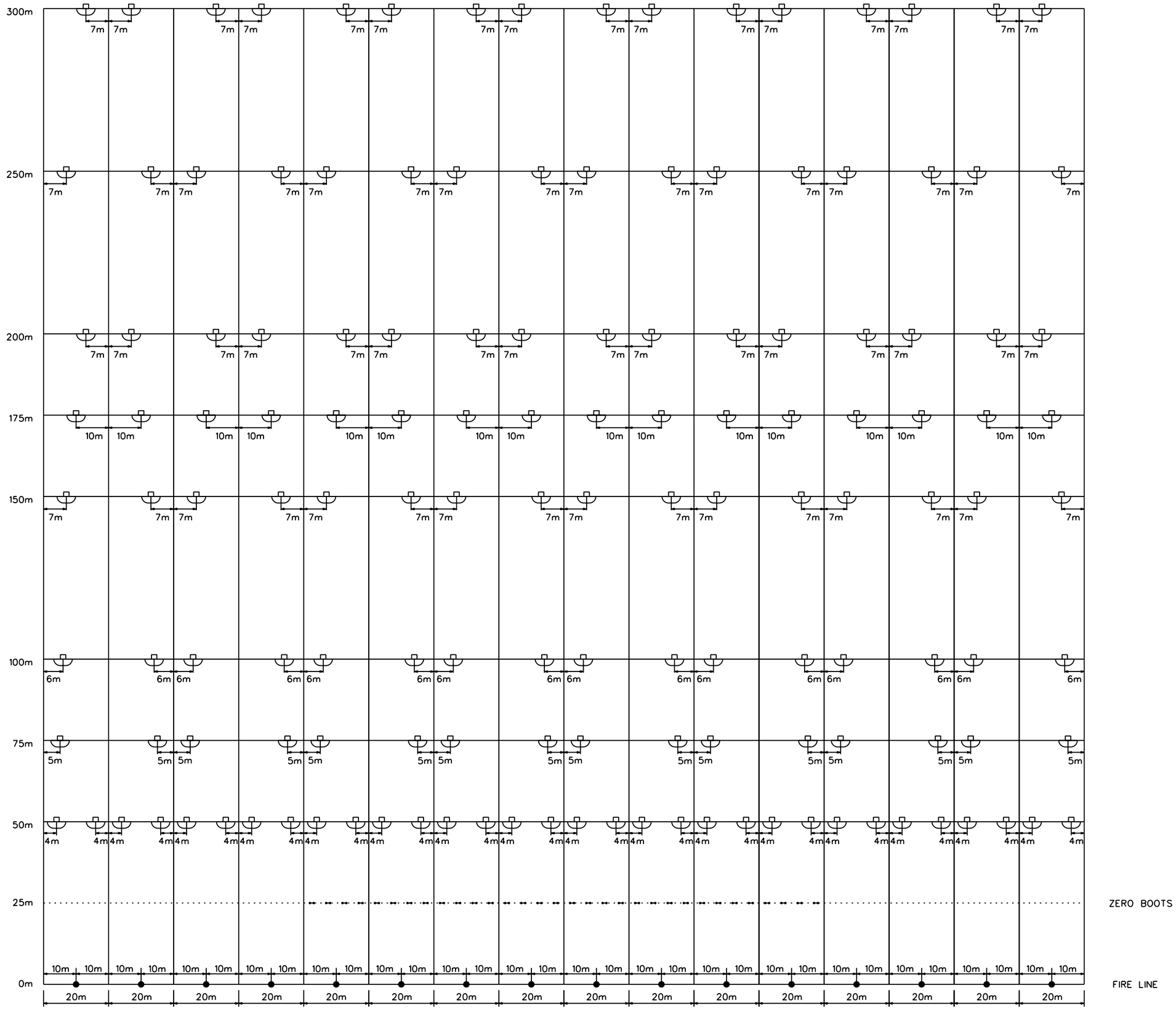
FCC- 17805
AUTOMATED RECORD FIRE RANGE

Sheet reference number:
ARF-C-01

Sheet of



LEGEND

STATIONARY INFANTRY TARGET EMPLACEMENT

FOXHOLE

TARGET BOOT

US Army Corps of Engineers

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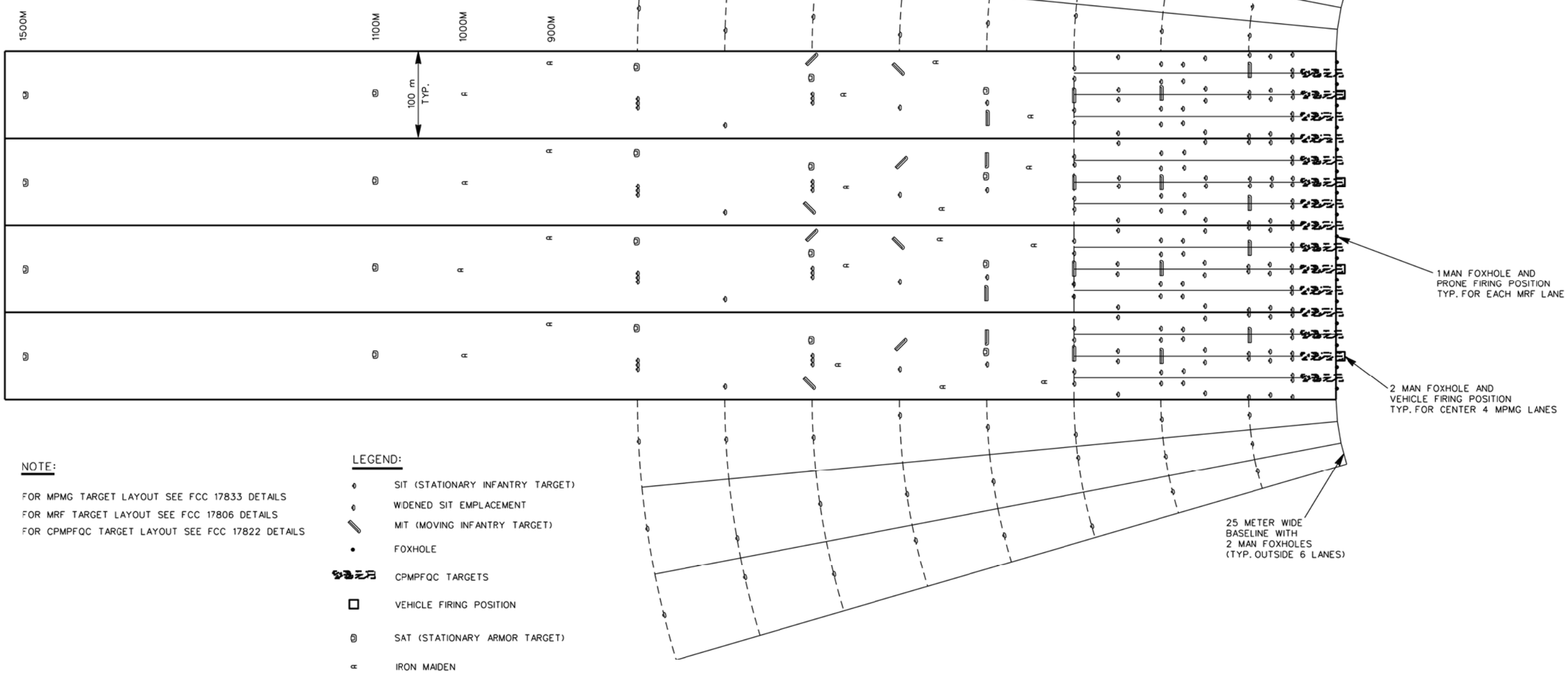
FCC= 17806
MODIFIED RECORD FIRE RANGE

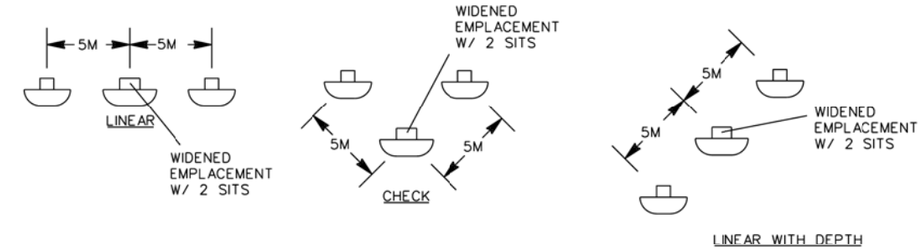
Sheet reference number:
MRF-C-01

Sheet of

DOWNRANGE DISTANCE (METERS)	EMPLACEMENT TYPE: OUTSIDE LANES 1 thru 3 8 thru 10	EMPLACEMENT TYPE: CENTER LANES 4 thru 7
100	SIT	MIT
200	SIT	MIT
300	SIT	MIT
400	Widened SIT (2 SIT's)	SAT, MIT, and SIT (DTA)
500	SIT (DTA)	MIT and Widened SIT (2 SIT's)
600	SIT (DTA)	MIT, SAT and SIT Array (Detail 1)
700	SIT (DTA)	Widened SIT (2 SIT's)
800	SIT (DTA)	SAT and SIT Array (Detail 1)
1100		SAT
1500		SAT
DTA - Double Target Arm		

TABLE SHOWS TARGETS FOR MPMG ONLY
SEE SEPERATE MRF AND CP/MPFQC DRAWINGS FOR TARGET LAYOUTS ON THOSE RANGES.





DETAIL 1
TARGET ARRAY EMPLACEMENT OPTIONS

NOTE:

FOR MPMG TARGET LAYOUT SEE FCC 17833 DETAILS
FOR MRF TARGET LAYOUT SEE FCC 17806 DETAILS
FOR CPMPFQC TARGET LAYOUT SEE FCC 17822 DETAILS

LEGEND:

- SIT (STATIONARY INFANTRY TARGET)
- WIDENED SIT EMPLACEMENT
- MIT (MOVING INFANTRY TARGET)
- FOXHOLE
- CPMPFQC TARGETS
- VEHICLE FIRING POSITION
- SAT (STATIONARY ARMOR TARGET)
- IRON MAIDEN

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OCTOBER 2010

RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL

FCC- 17809
QUALIFICATION TRAINING RANGE

Sheet reference number:
QTR-C-01

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1 SEP 2006

RANGE AND TRAINING LAND PROGRAM
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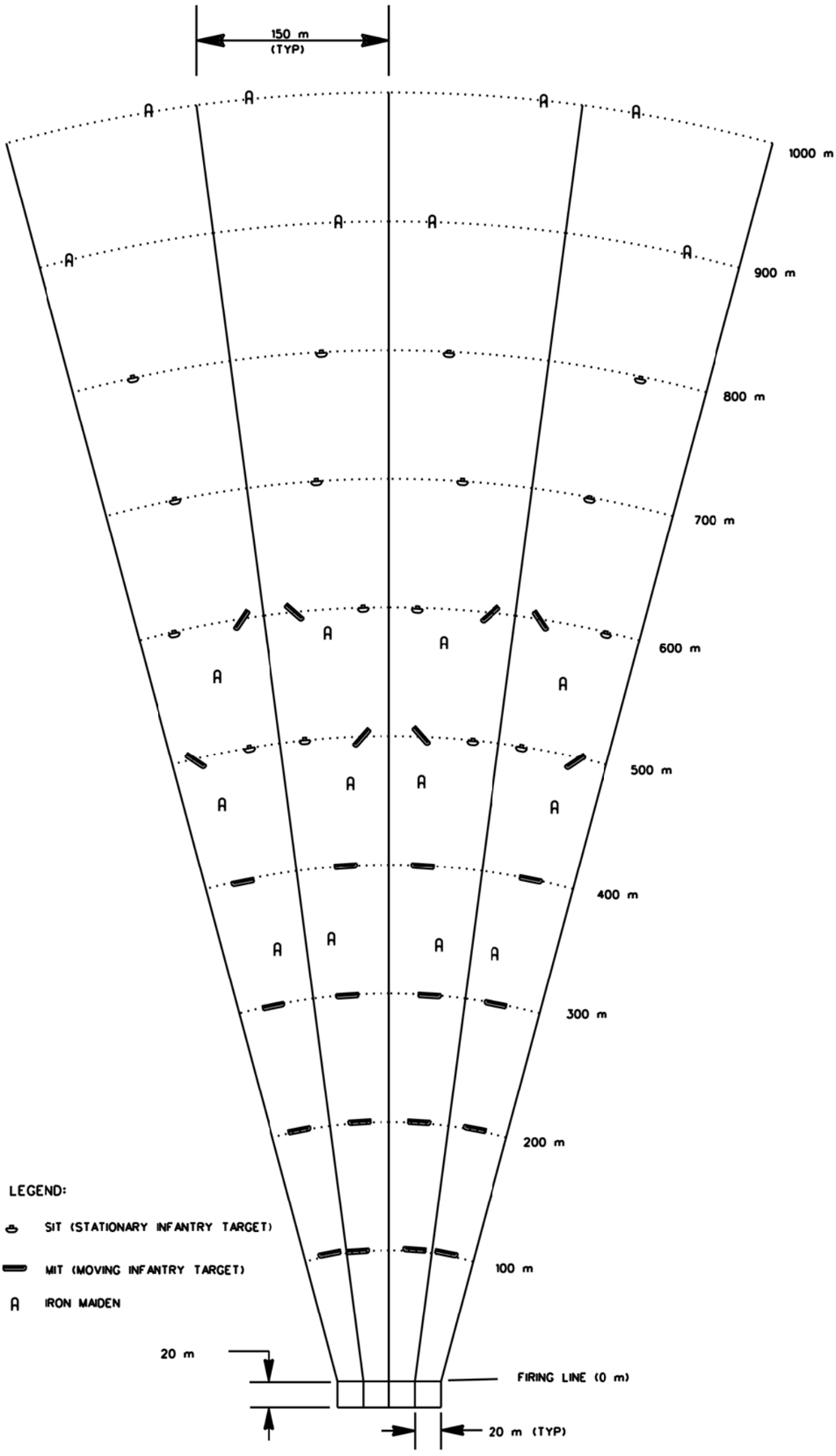
FCC: 17810
KNOWN DISTANCE RANGE

Sheet reference number:
KDR-C-01

Sheet of



Sheet reference number: SFF-C-01
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RANGE AND TRAINING LAND PROGRAM
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FCC* 17812
SNIPER FIELD FIRE RANGE

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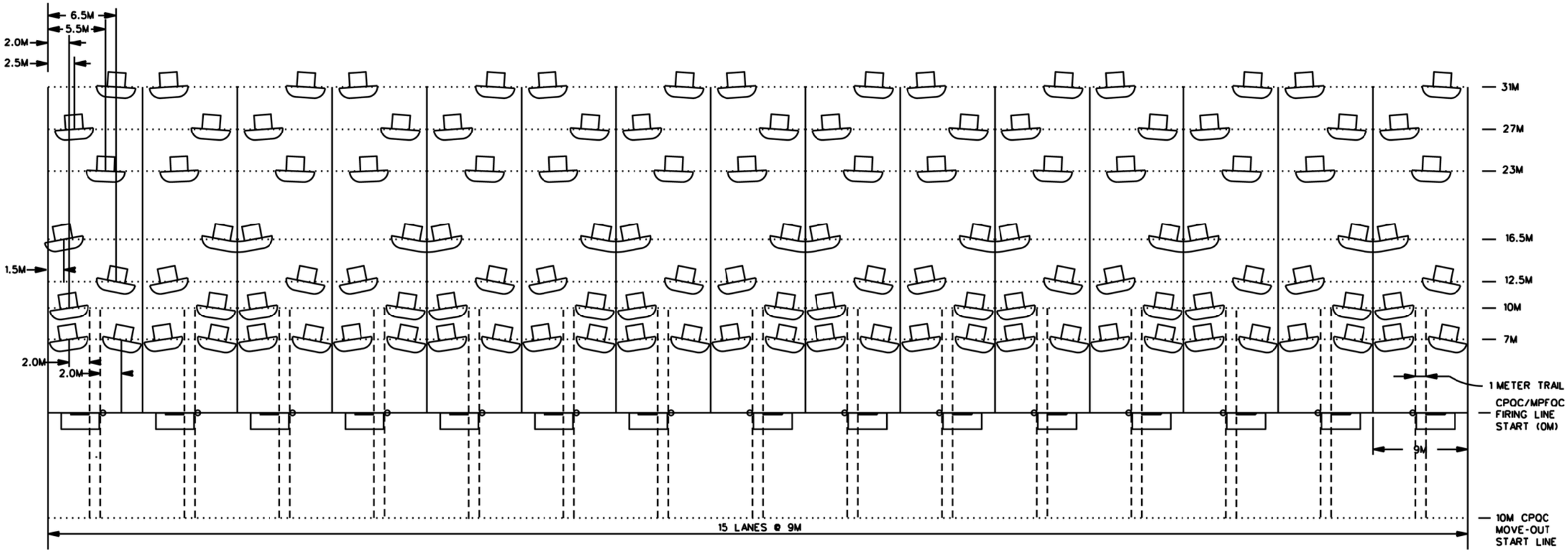

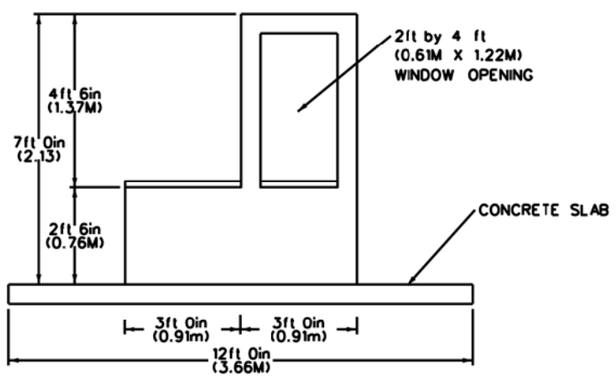

MP FIREARMS BARRICADE

LEGEND

SIT (STATIONARY INFANTRY TARGET)

o BOOT (HOLDING BOOT FOR MAGAZINE TABLE STAND LOCATED AT CPQC FIRING LINE START)

CONCRETE PAD 3.66M X 1.52M (12'-0" x 5'-0") WITH MP FIREARMS BARRICADE - REFER TO DETAIL

NOTES TO DESIGNER:

1. ORIENT TARGETS TO FACE THE CENTER OF THE TRAIL AT THE CPQC FIRING LINE FOR EACH LANE.
2. SUPPORT FACILITIES MUST BE SITE ADAPTED TO MEET LOCAL REQUIREMENTS.

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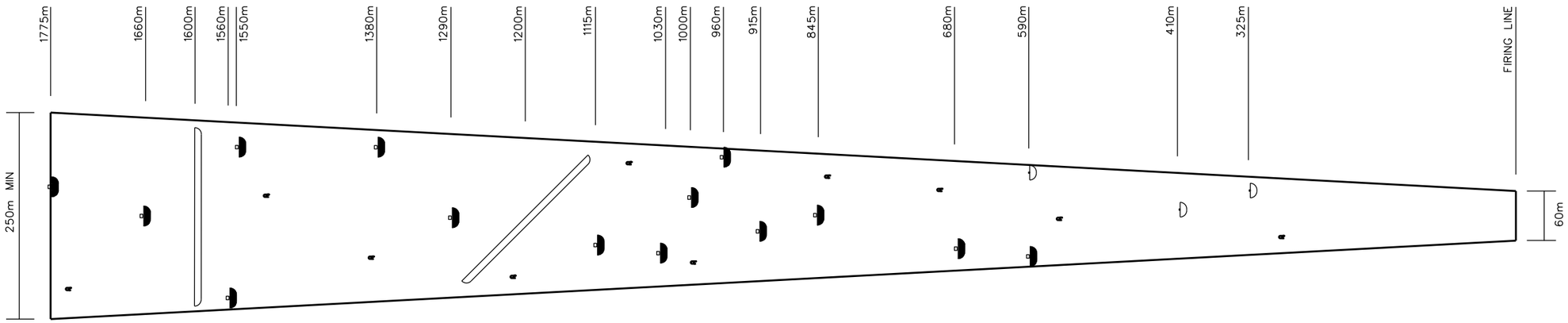
RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL

FCC- 17822
COMBAT PISTOL - MP FIREARMS QUALIFICATION COURSE

Sheet reference number:
PQC-C-01

Sheet of



LEGEND

STATIONARY INFANTRY TARGET (SIT)

STATIONARY ARMOR TARGET (SAT) WITH MATERIAL POP-UPS

200m MOVING ARMOR TARGET (MAT)

IRON MAIDEN

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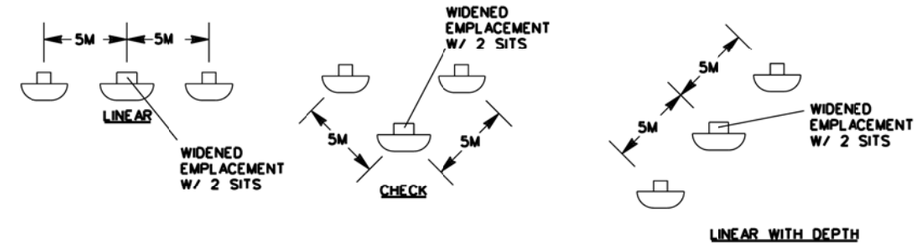
1 FEB 2010

RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL

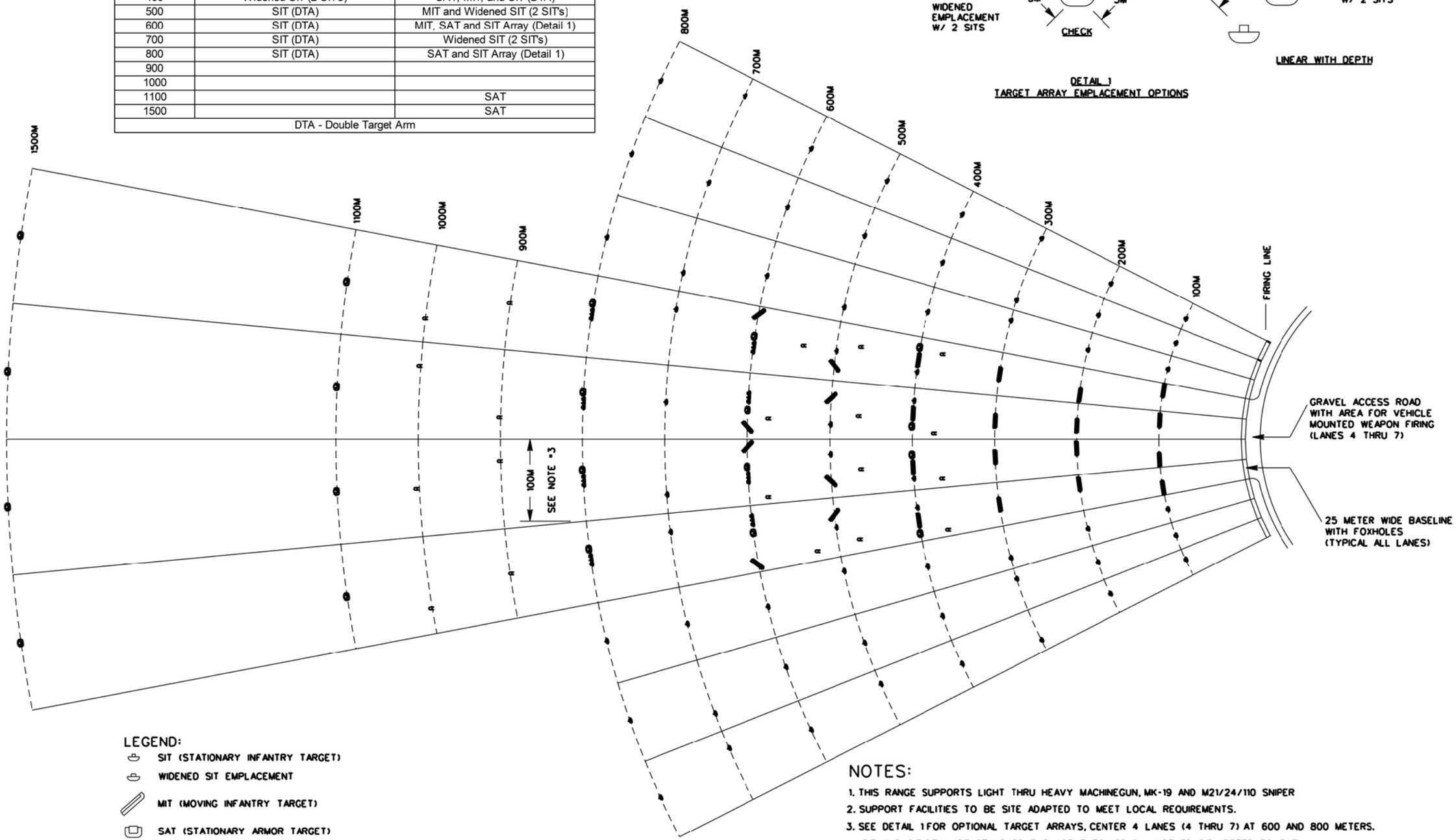
FCC= 17829
HEAVY SNIPER RANGE

Sheet reference number:
HVS-C-01

DOWNRANGE DISTANCE (METERS)	EMPLACEMENT TYPE: OUTSIDE LANES 1 thru 3 8 thru 10	EMPLACEMENT TYPE: CENTER LANES 4 thru 7
100	SIT	MIT
200	SIT	MIT
300	SIT	MIT
400	Widened SIT (2 SIT's)	SAT, MIT, and SIT (DTA)
500	SIT (DTA)	MIT and Widened SIT (2 SIT's)
600	SIT (DTA)	MIT, SAT and SIT Array (Detail 1)
700	SIT (DTA)	Widened SIT (2 SIT's)
800	SIT (DTA)	SAT and SIT Array (Detail 1)
900		
1000		
1100		SAT
1500		SAT
DTA - Double Target Arm		



DETAIL 1
TARGET ARRAY EMPLACEMENT OPTIONS



LEGEND:

- SIT (STATIONARY INFANTRY TARGET)
- WIDENED SIT EMPLACEMENT
- MIT (MOVING INFANTRY TARGET)
- SAT (STATIONARY ARMOR TARGET)
- IRON MAIDEN

NOTES:

1. THIS RANGE SUPPORTS LIGHT THRU HEAVY MACHINEGUN, MK-19 AND M21/24/110 SNIPER
2. SUPPORT FACILITIES TO BE SITE ADAPTED TO MEET LOCAL REQUIREMENTS.
3. SEE DETAIL 1 FOR OPTIONAL TARGET ARRAYS, CENTER 4 LANES (4 THRU 7) AT 600 AND 800 METERS.
4. SIT AND SIT(DTA) ARE STANDARD EMPLACEMENTS (CD-01); WIDENED SITs REFER TO THE WIDENED SIT EMPLACEMENT FOR THE INSTALLATION OF 2 MECHANISMS (CD-02).

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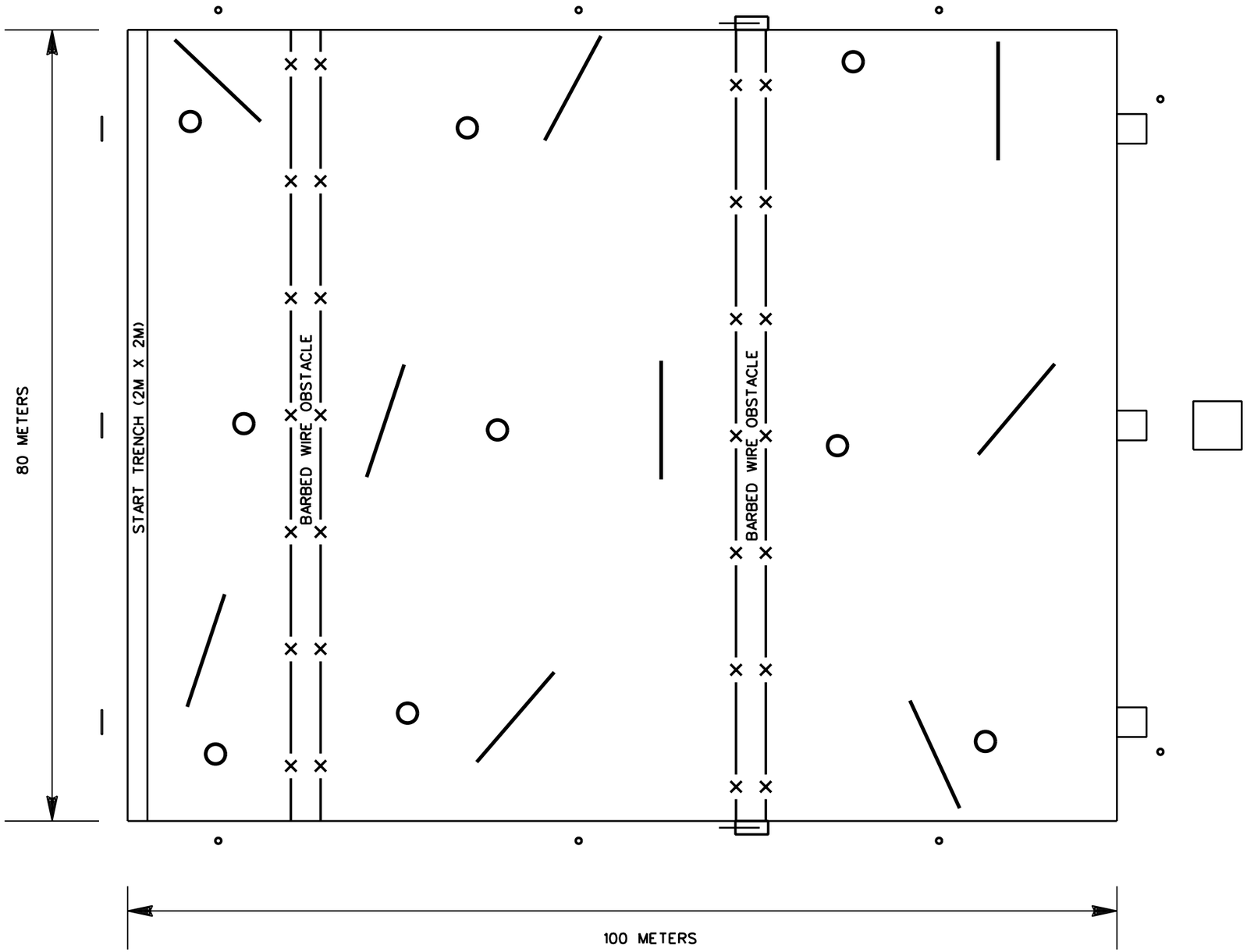
RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL

FCC# 17833
MULTIPURPOSE MACHINEGUN TRANSITION RANGE

Sheet reference number:
MGR-C-01

Sheet of



LEGEND

- DEMOLITION PIT
- OBSTACLE LOG
- ZERO TARGET
- MACHINE GUN TOWER
- CONTROL TOWER
- LIGHT POLE
- BUTANE MACHINE GUN SIMULATOR

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RANGE AND TRAINING LAND PROGRAM
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FCC- 17891

NIGHT INFILTRATION COURSE

Sheet reference number:
NIC-01

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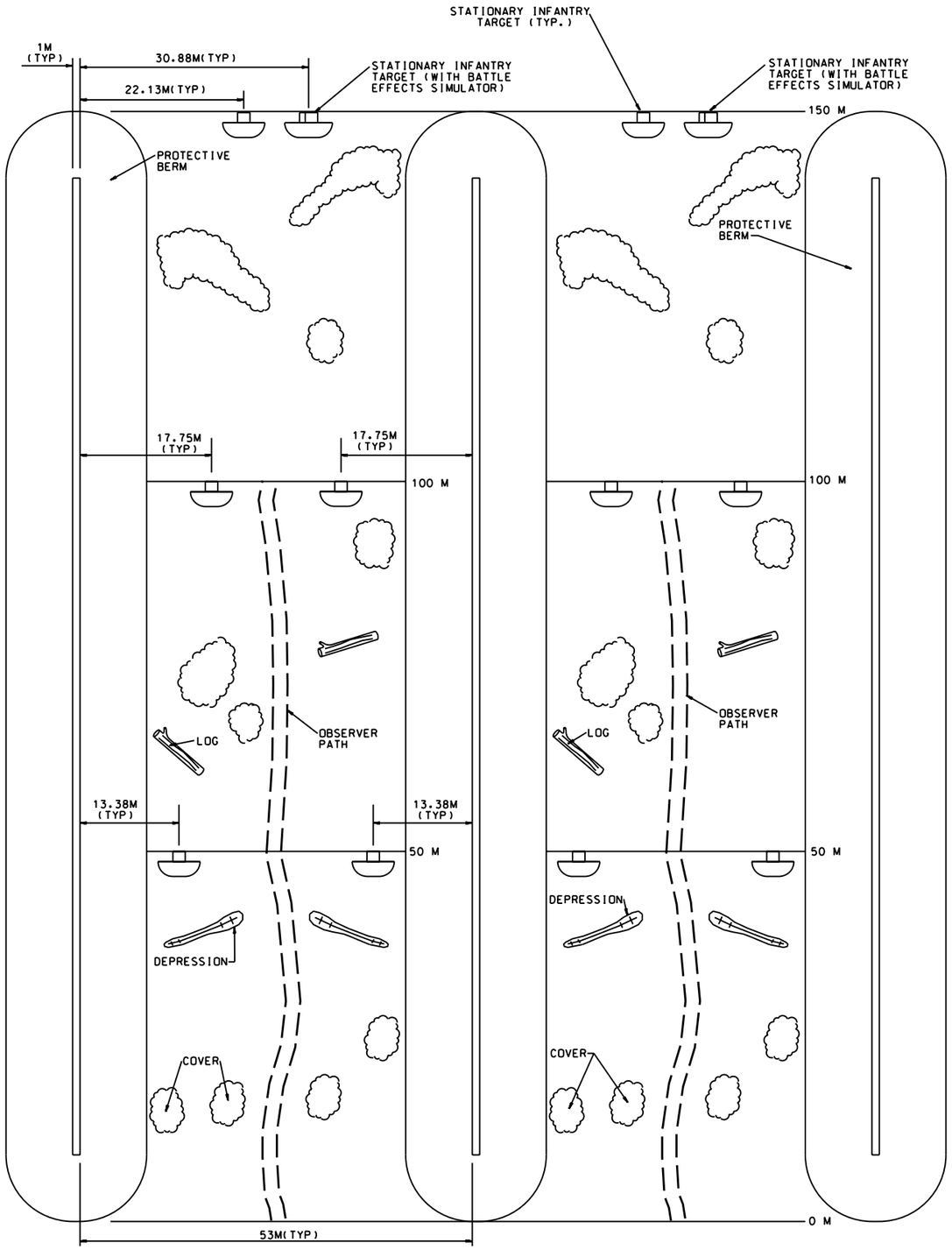

2 LANES OF A 4 LANE RANGE SHOWN

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RANGE AND TRAINING LAND PROGRAM
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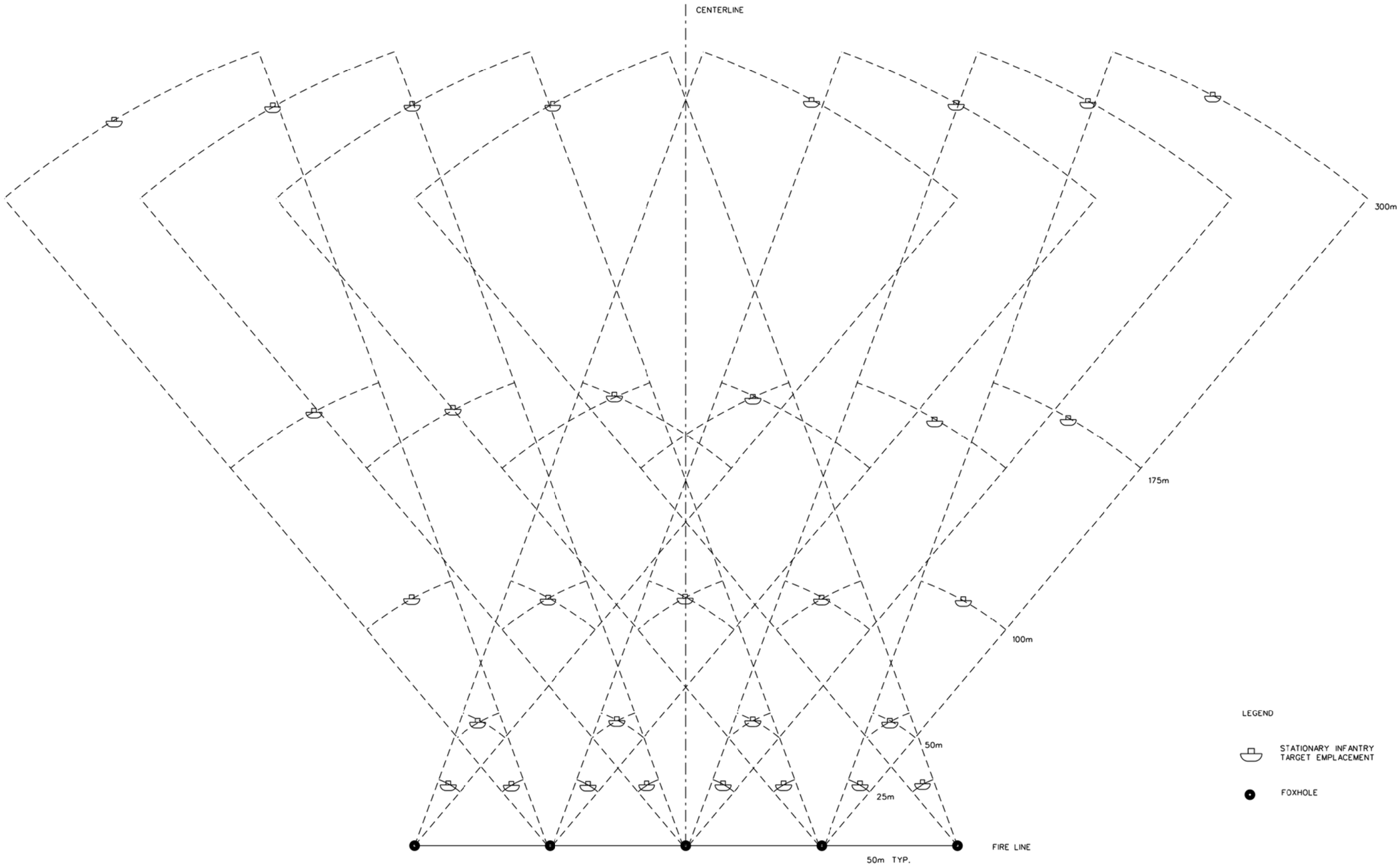
FIRE AND MOVEMENT RANGE

Sheet reference number:
FAM-C-01

Sheet of



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RANGE AND TRAINING LAND PROGRAM
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FCC- 17893
SQUAD DEFENSE RANGE

Sheet reference number:
SDR-C-01

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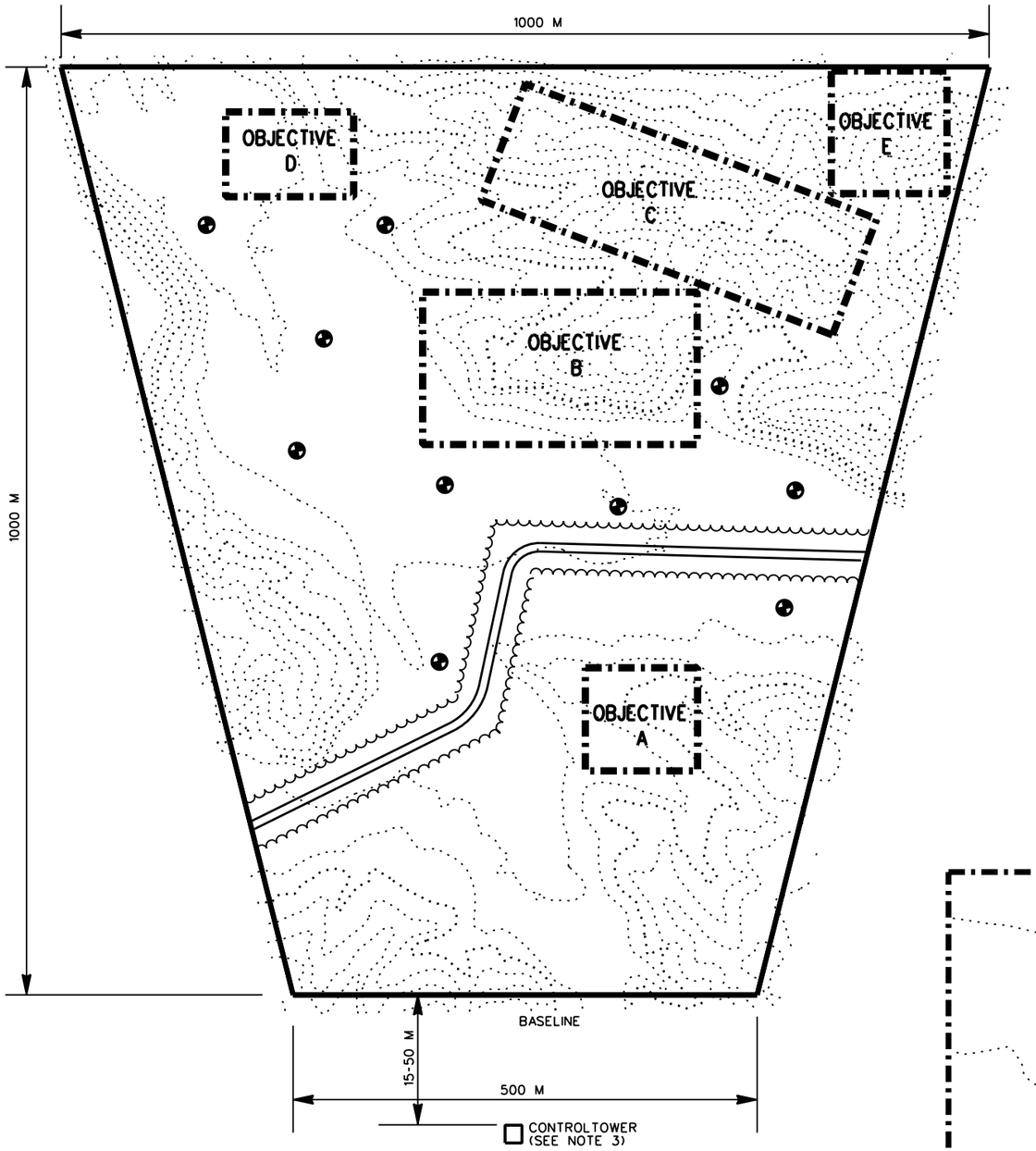
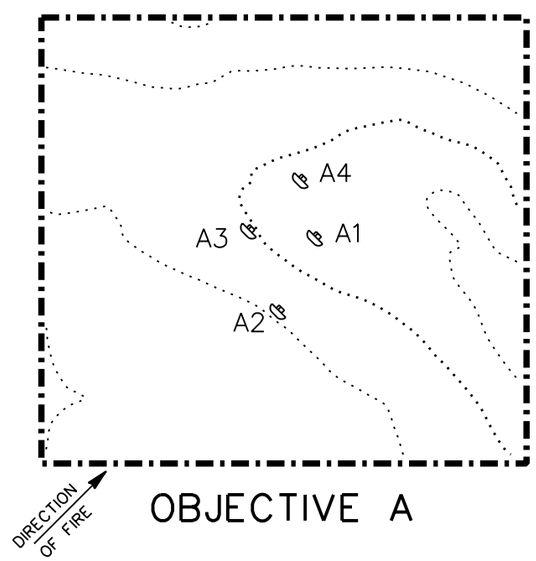


LEGEND: (SHEETS L-10 AND L-11)

- ARMOR MOVING TARGET (MAT) EMPLACEMENT
- STATIONARY ARMOR TARGET (SAT) EMPLACEMENT
- STATIONARY INFANTRY TARGET (SIT) EMPLACMENT WITH HOSTILE FIRE SIMULATOR
- MG BUNKER - MACHINEGUN (MG)
- OB BUNKER - OBSERVATION (OB)
- MOVING INFANTRY TARGET (MIT) EMPLACEMENT
- TRENCH
- DANGER AREA (CLEARED AREA WITH ROAD)
- MORTAR SIMULATION DEVICE EMPLACEMENT

GENERAL NOTES:

1. ISBC LAYOUT DEPICTS TARGET POSITIONS AND TRAINING SCENARIO SPECIFICALLY TAILORED FOR THE TOPOGRAPHY SHOWN. LIMIT MARKERS MUST BE POSITIONED BASED ON SITE SPECIFIC CONDITIONS FOR EACH OBJECTIVE AND THE ENTIRE RANGE.
2. SEE SHEET L-11 FOR OBJECTIVES B,C,D AND E.
3. RANGE BOUNDARIES ARE GENERIC AND REPRESENT MAXIMUM EXPECTED LAND USE REQUIREMENTS. ACTUAL RANGE BOUNDARY CONFIGURATION MAY VARY DEPENDING ON SITE SPECIFIC CONDITIONS.
4. SITE CONTROL TOWER 15-50 METERS FROM THE BASELINE IN AN AREA THAT WILL PROVIDE AN UNOBSTRUCTED VIEW OF THE BASELINE.
5. SEE DRAWING C-14 FOR TRENCH LAYOUT AND DETAILS.



OBJECTIVE A

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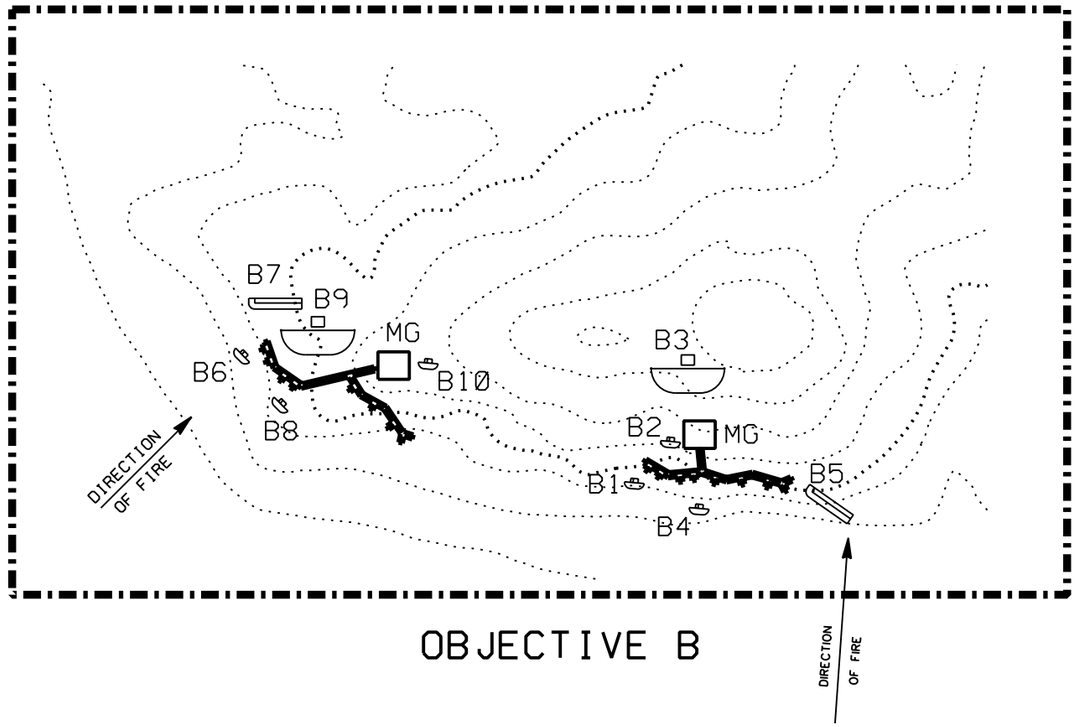
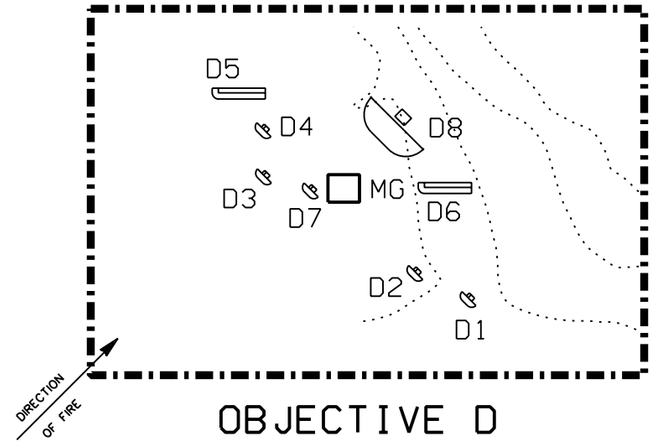
RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL

FCC: 17895
INFANTRY SQUAD BATTLE COURSE
(1 OF 2)

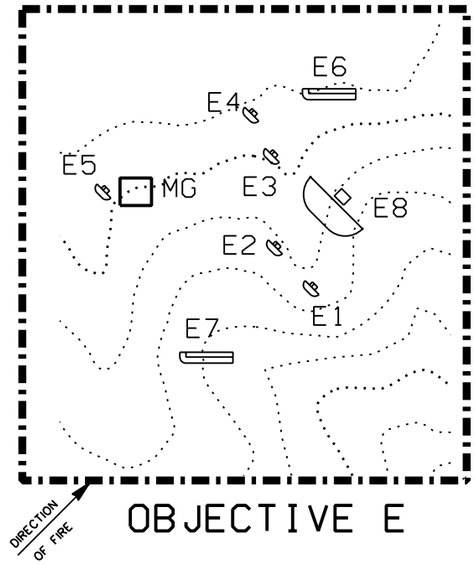
Sheet reference number:
ISB-C-01
Sheet of



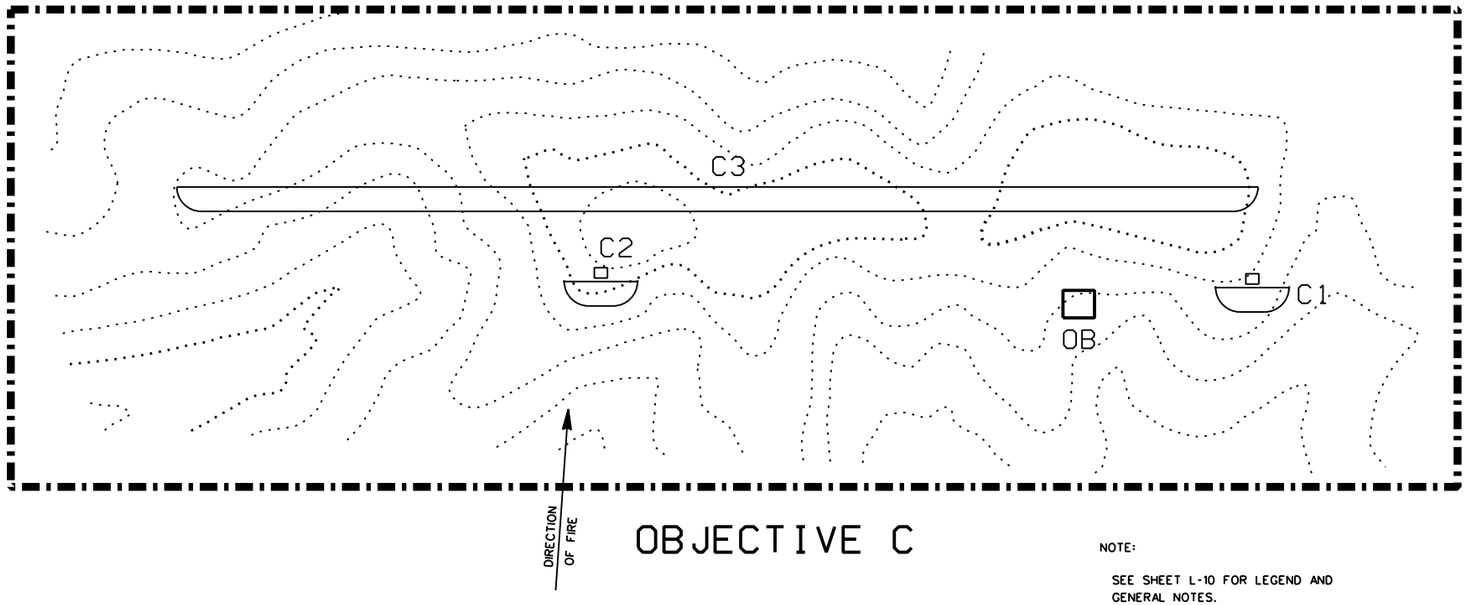
OBJECTIVE B



OBJECTIVE D



OBJECTIVE E



OBJECTIVE C

NOTE:

SEE SHEET L-10 FOR LEGEND AND GENERAL NOTES.

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FCC* 17895
INFANTRY SQUAD BATTLE COURSE
(2 OF 2)

Sheet reference number:
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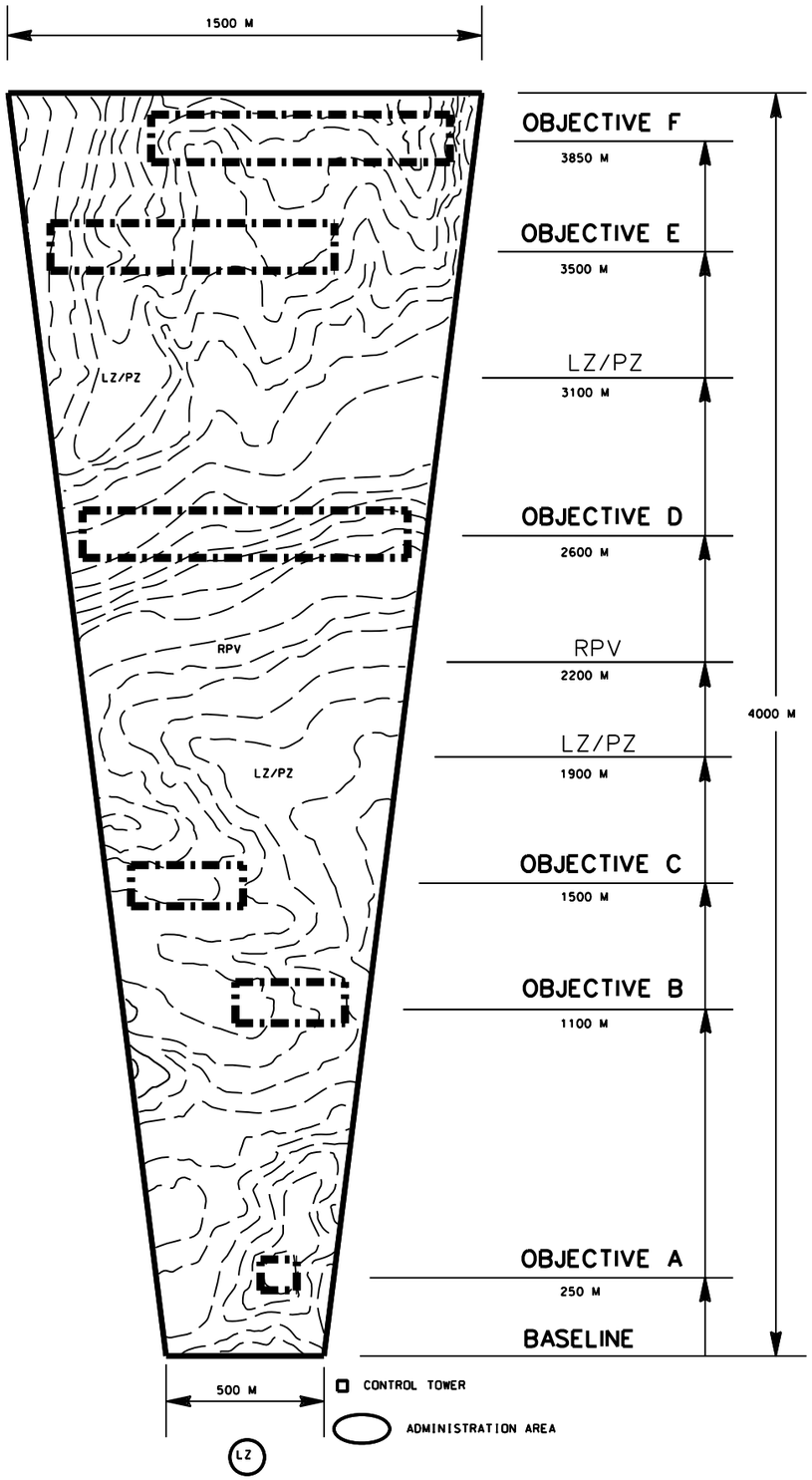

LEGEND:

- MOVING ARMOR TARGET (MAT) EMPLACEMENT
- STATIONARY ARMOR TARGET (SAT) EMPLACEMENT
- STATIONARY INFANTRY TARGET (SIT) EMPLACMENT WITH HOSTILE FIRE SIMULATOR
- MG — BUNKER - MACHINEGUN (MG)
- LZ/PZ — LANDING ZONE/PICKUP ZONE
- MOVING INFANTRY TARGET (MIT) EMPLACEMENT
- TRENCH
- MORTAR SIMULATION DEVICE EMPLACEMENT
- RPV — REMOTE PILOTED VEHICLE
- ASSAULT/DEFEND HOUSE WITH STATIONARY INFANTRY TARGET EMPLACEMENT
- LZ — LANDING ZONE

DESIGNER NOTES:

1. IPBC LAYOUT DEPICTS TARGET POSITIONS AND TRAINING SCENARIOS SPECIFICALLY TAILORED FOR THE TOPOGRAPHY SHOWN. THE INSTALLATION'S TRAINING OFFICER MUST DETERMINE THE LAYOUT OF THE IPBC IN ORDER TO MAKE BEST USE OF THE AVAILABLE LAND. THE SIZE, POSITIONING, AND DISTANCE FROM THE BASELINE OF EACH OBJECTIVE IS FLEXIBLE AND SHOULD BE ADJUSTED TO SUIT ANY GIVEN RANGE.

2. LIMIT MARKERS MUST BE POSITIONED BASED ON SITE-SPECIFIC CONDITIONS FOR EACH OBJECTIVE AND THE ENTIRE RANGE.

3. RANGE BOUNDARIES ARE GENERIC AND REPRESENT MAXIMUM EXPECTED LAND-USE REQUIREMENTS. ACTUAL RANGE BOUNDARY CONFIGURATION MAY VARY DEPENDING ON SITE SPECIFIC CONDITIONS.

4. SITE CONTROL TOWER 15-50 METERS BEHIND THE BASELINE IN AN AREA THAT WILL PROVIDE AN UNOBSTRUCTED VIEW OF THE BASELINE. SITE THE ADMINISTRATION AREA APPROXIMATELY 250 METERS BEHIND THE BASELINE. BOTH THE CONTROL TOWER AND THE ADMINISTRATION AREA SHOULD BE LOCATED TO ONE SIDE OF THE BASLINE IN ORDER TO PROVIDE AN UNOBSTRUCTED ASSEMBLY AND ADVANCEMENT AREA.

5. THIS RANGE IS NOT DESIGNED FOR TANKS OR MECHANIZED VEHICLES BEYOND THE BASELINE.

~~6. THE INSTALLATION'S TRAINING OFFICER MUST CHOOSE SIX TARGET-FIRING POSITION PAIRS TO RECIEVE THE LOCATION OF MISS AND HIT SYSTEMS (LOMAH).~~

7. SEE SHEETS L-13 AND L-14 FOR OBJECTIVES A,B,C,D,E AND F LAYOUTS.

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HUNTSVILLE, ALABAMA

15 APR 2005

RANGE AND TRAINING LAND PROGRAM
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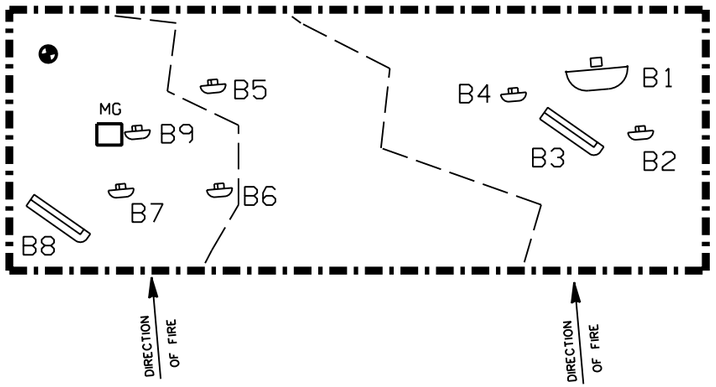
(1 OF 3)

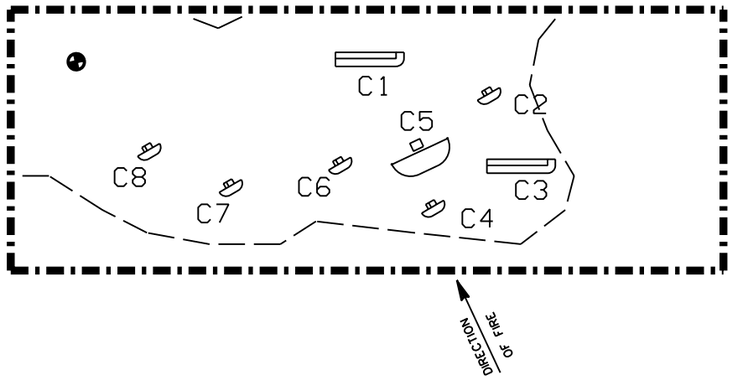
Sheet reference number:
IPB-C-01

Sheet of

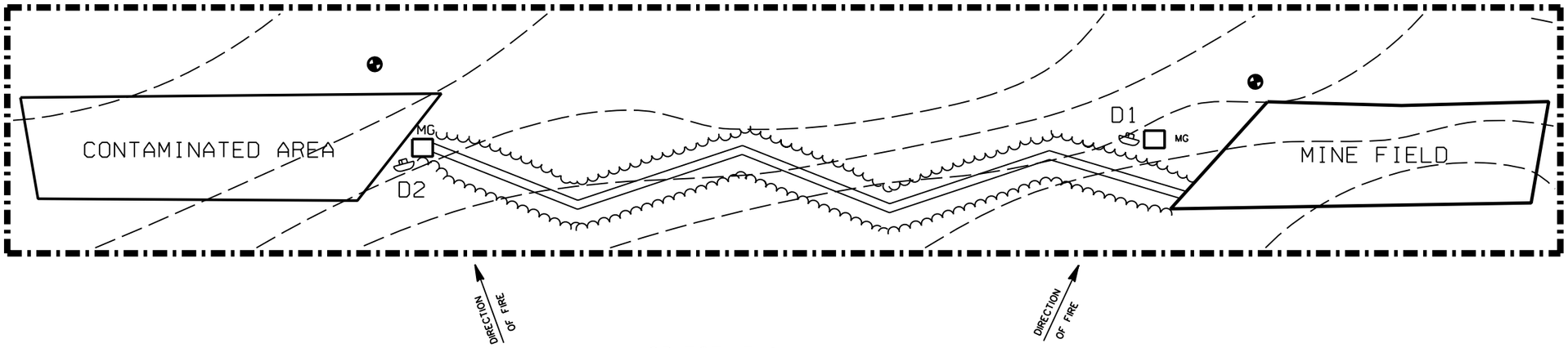
OBJECTIVE B



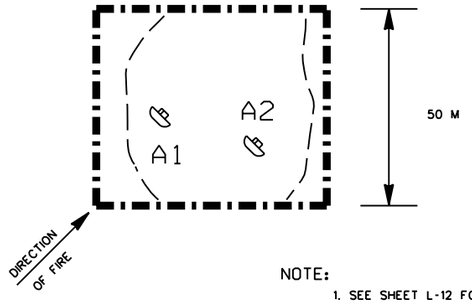
OBJECTIVE C



OBJECTIVE D



OBJECTIVE A



NOTE:

1. SEE SHEET L-12 FOR LEGEND AND DESIGNER NOTES.
2. SEE DRAWING C-14 FOR TRENCH LAYOUT AND DETAILS.

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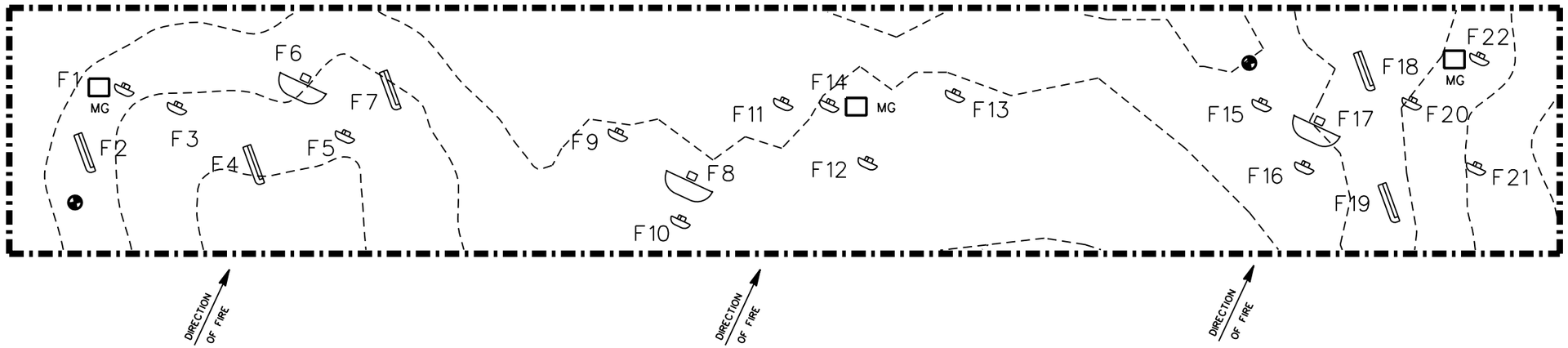
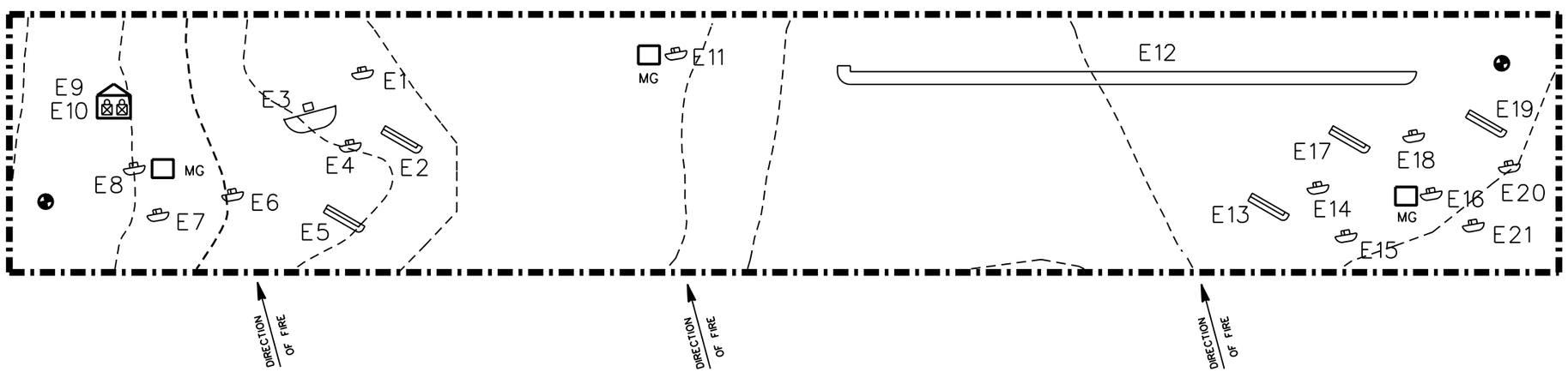
OBJECTIVE F



OBJECTIVE E



NOTE:
1. SEE SHEET L-12 FOR LEGEND AND GENERAL NOTES

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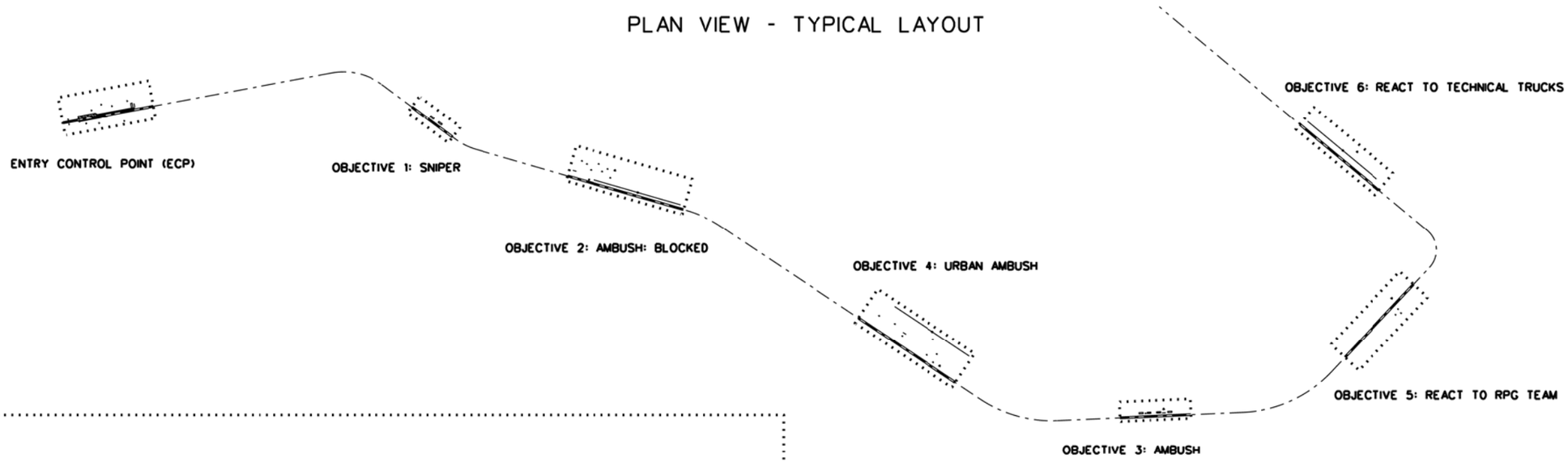
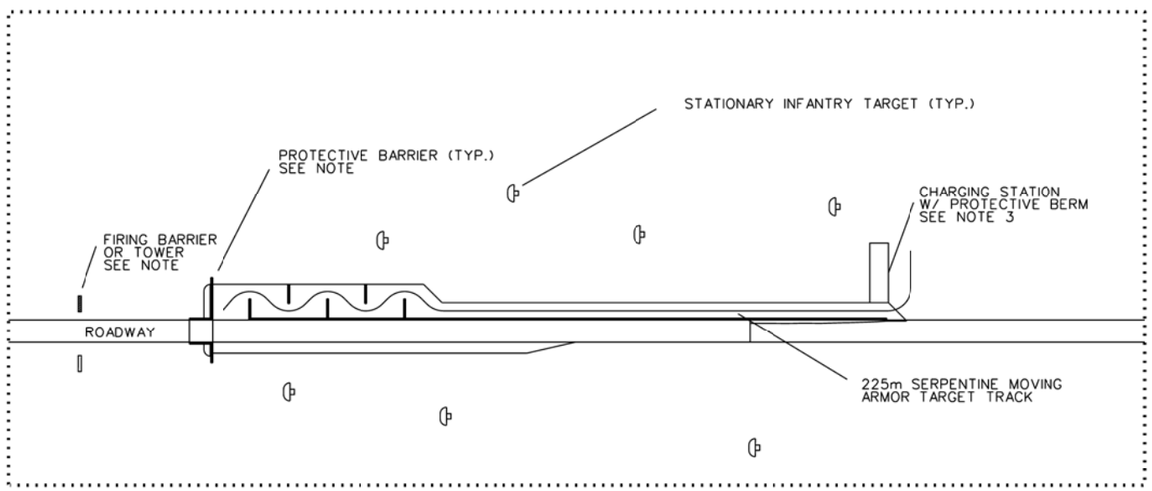
PLAN VIEW - TYPICAL LAYOUT



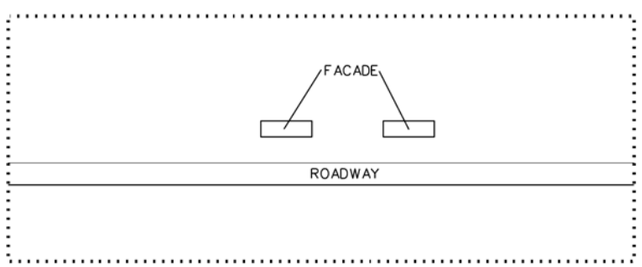


NOTE: THE DESIGN MUST ENSURE THAT THE SERPENTINE MOVER MECHANISM AND TRACK ARE PROTECTED ALONG THE ENTIRE LENGTH AND THAT THE MOVER TARGET IS VISIBLE

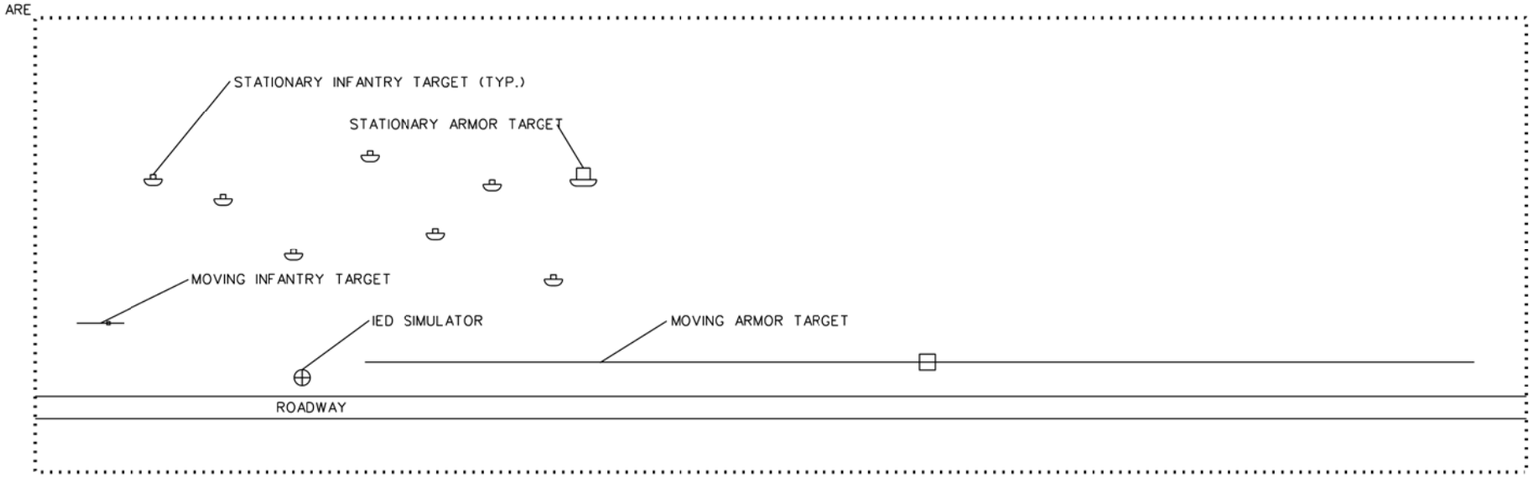
ENTRY CONTROL POINT (ECP)

NOTES

1. LAYOUT SHOULD BE ADJUSTED AS REQUIRED TO FIT INSTALLATION SDZ AND SPECIFIC TRAINING REQUIREMENTS
2. USE EXISTING ROADS WHEN POSSIBLE
3. FOR THE SERPENTINE MAT ON THE ECP, PROVIDE THE STANDARD TARGET POWER AND DATA CONFIGURATION EXCEPT INCREASE THE TARGET POWER CIRCUIT TO 30 AMPS. PROVIDE A 30 AMP CIRCUIT BREAKER FEEDING AN L14-30R POWER OUTLET FOR THE TARGET POWER OUTLET.



OBJECTIVE 1: SNIPER



OBJECTIVE 2: AMBUSH: BLOCKED

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CONVOY LIVE FIRE RANGE

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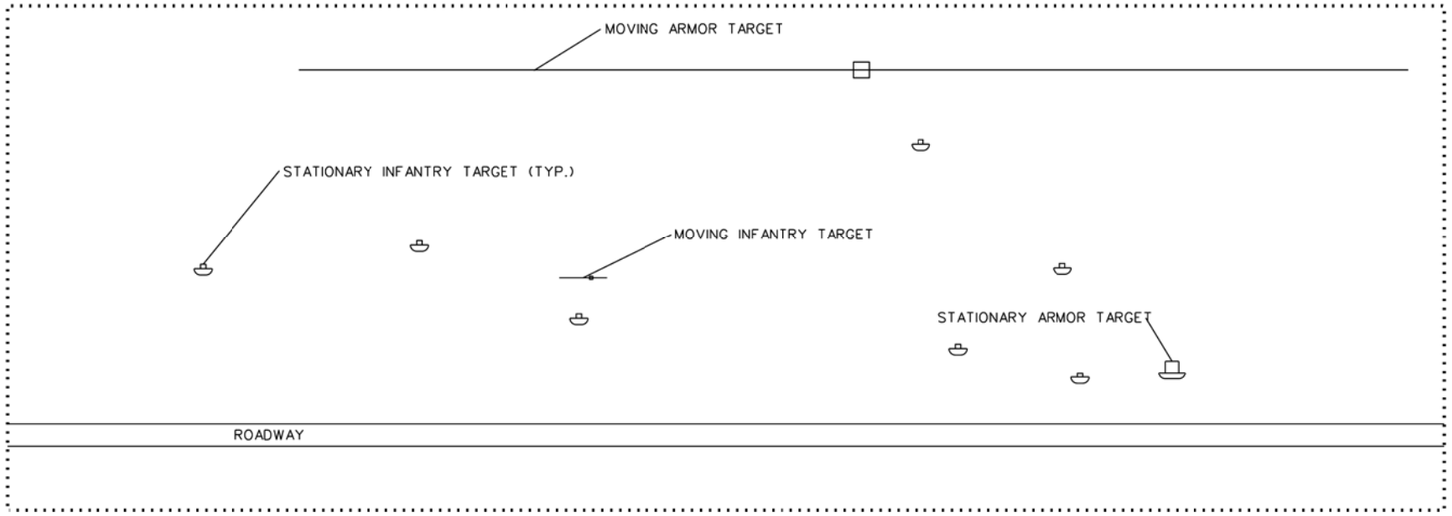
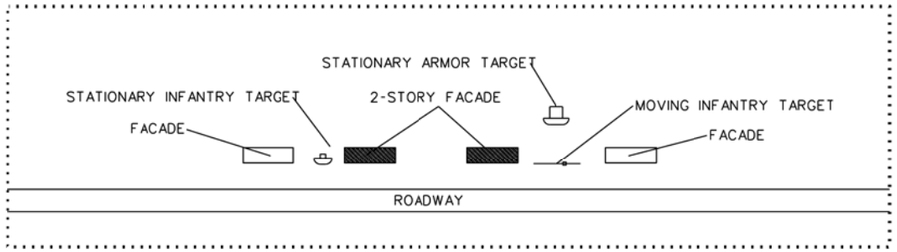
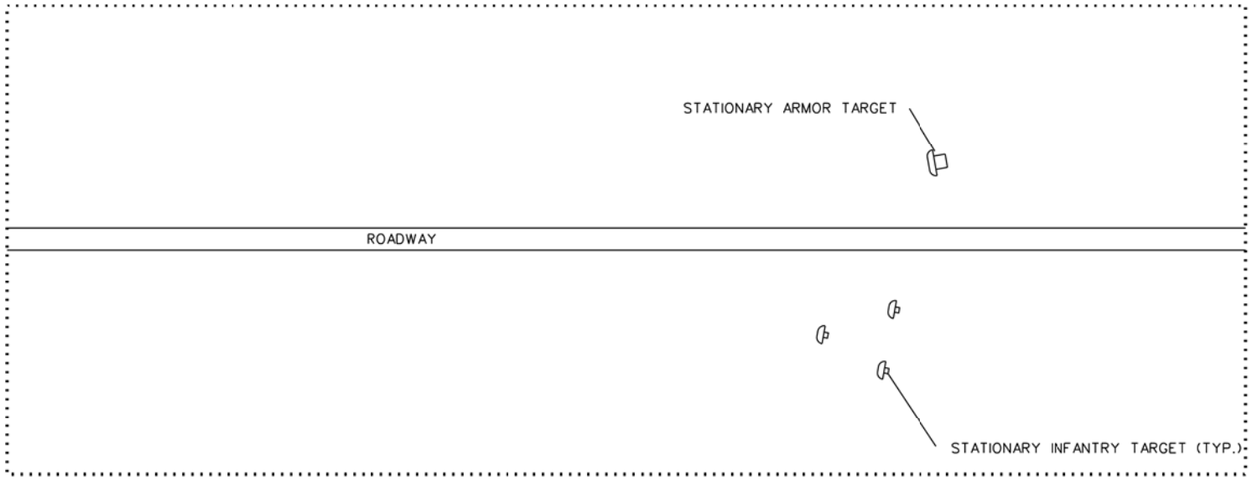


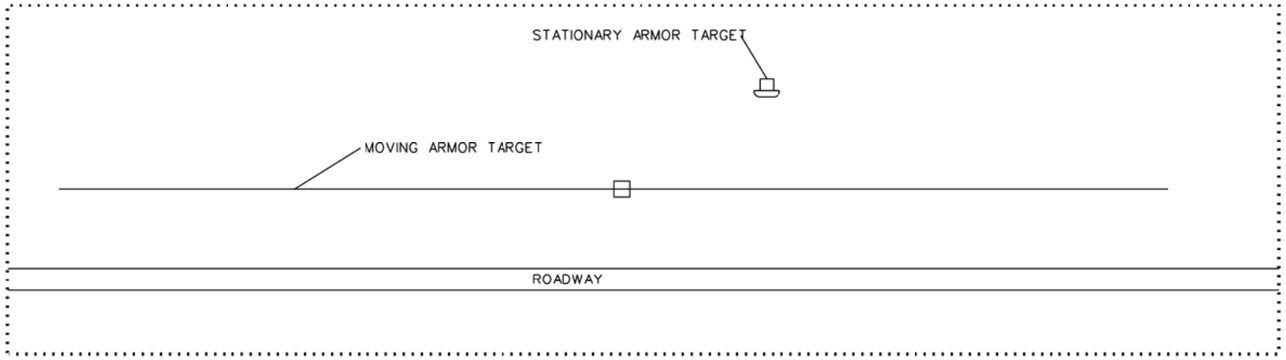
OBJECTIVE 3: AMBUSH



OBJECTIVE 4: URBAN AMBUSH



OBJECTIVE 5: REACT TO RPG TEAM



OBJECTIVE 6: REACT TO TECHNICAL TRUCKS

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