The Human Dimension in Precision Fires

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USMC

THE PLAN

- Less than 20 minutes from me.
  - Ask question at any time.
- I don’t presume to know what you want to hear about, so please tell me.
- I am not an expert on PGMs or their use, but I have used them ---and chosen not to.

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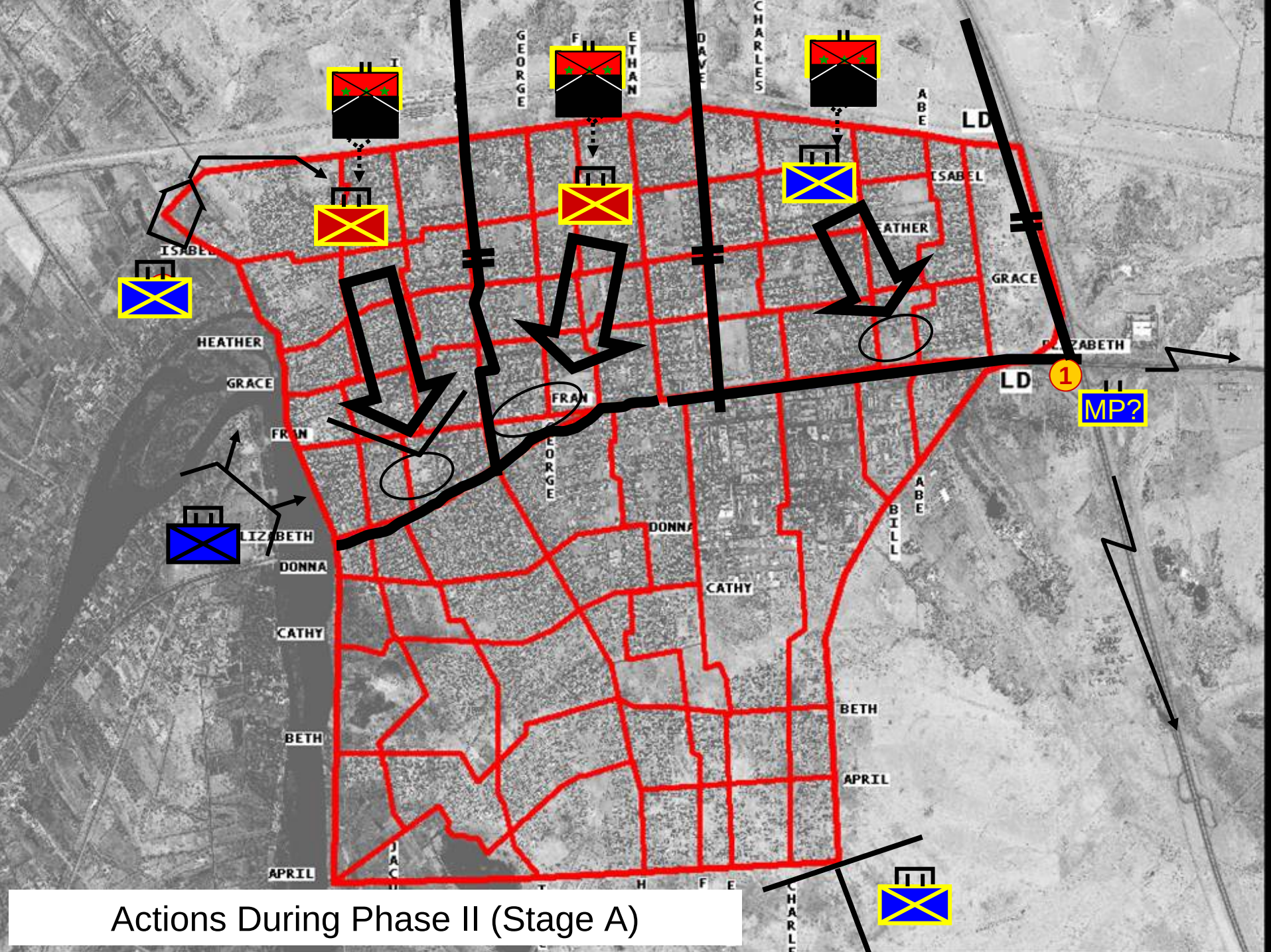
TWO DISTINCT FIGHTS

FALLUJAH

- RCT X.O.
- Sparsely populated areas, but still significant civilian pop.
- Ability to employ arty, GBUs
- Transition to a conventional op from COIN
- We were on the outside trying to get in.

RAMADI

- Inf Bn C.O.
- Heavily populated. 250K
- My call to avoid use of PGMs.
- Remained a COIN environment
- We were on the inside fighting to stay in.



Actions During Phase II (Stage A)

OBJECTIVE BRYANT

CEMETERY AT N OF TOWN

مكتب الرائد
لتجارة الاطارات

CONSIDERATIONS

- Al Fajr (Fallujah Nov 04) began with shaping ops in summer / fall 04.
  - PGMs needed to avoid civilian casualties.
- Ended in full scale assault.
  - PGMs needed to avoid friendly casualties.
- Two fights within one fight.
  - One constant thread, the requirement for PGMs.

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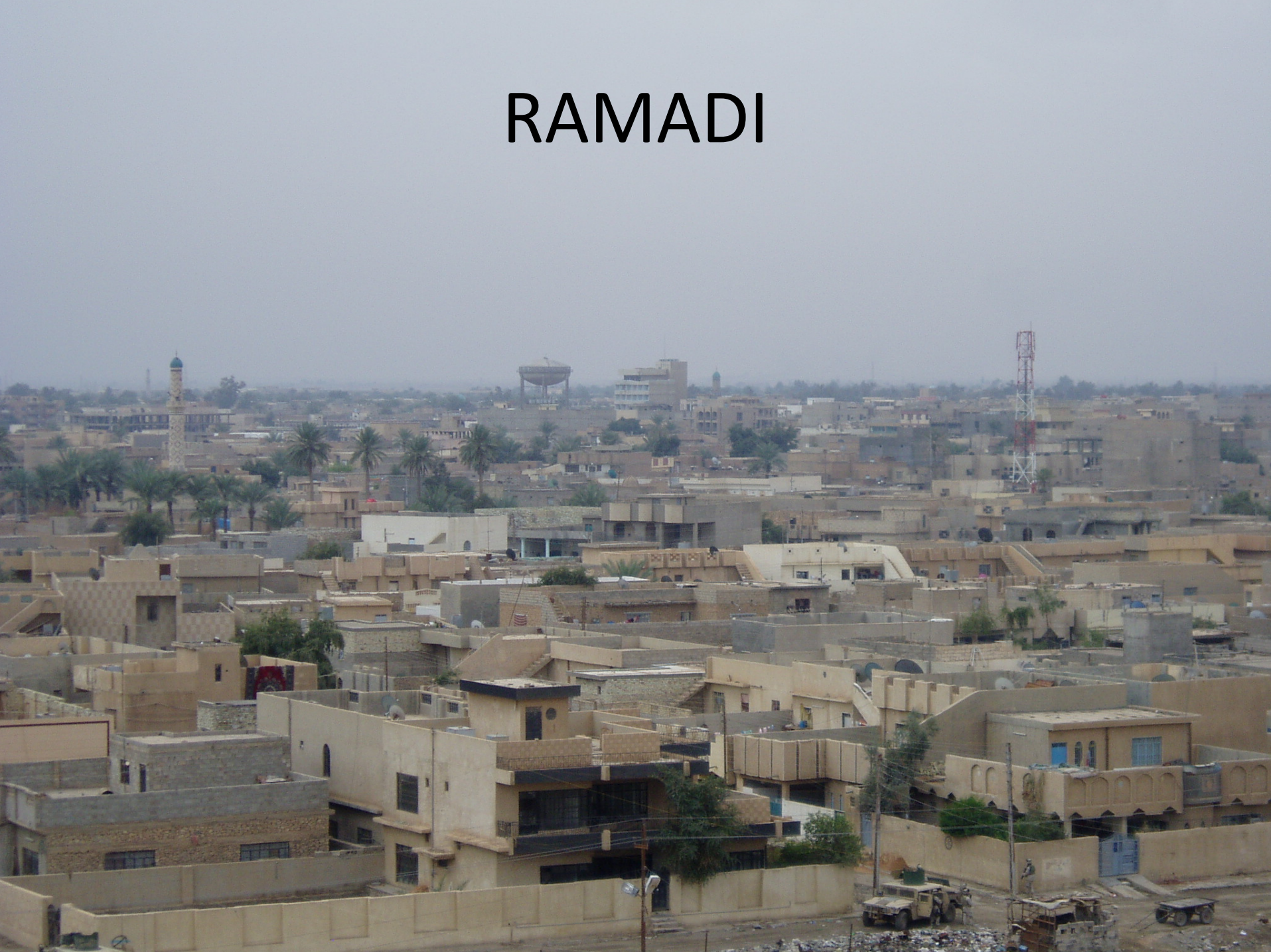

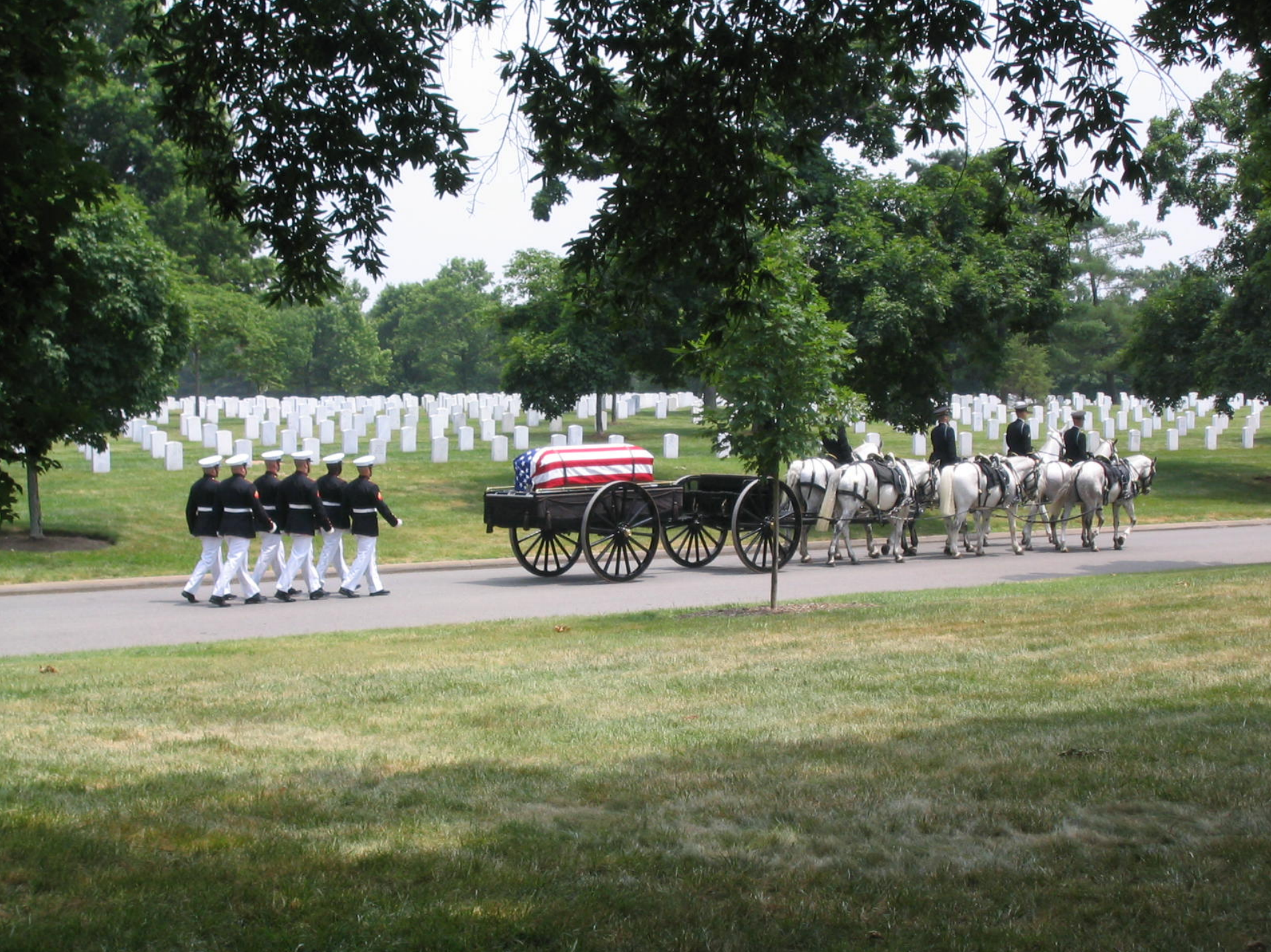

CONSIDERATIONS

- “Precision” usually means something different to the sensor and the shooter.
  - Not a complaint, “I’m just saying”
- Second and third order effects.
  - On all three levels.
- Weaponeering (pounds vs. tgt).
  - There is no “Powell Doctrine” for PGMs.
- Are you seeing what you think you see?
  - The bomb doesn’t care once cleared hot.

WRAP UP

- Just one Marine's perspective
- PGMs have to be considered holistically
  - Design
  - Employment
- What would I like to see in a PGM?
  - Loiter time
  - Laser then scoot
  - Ability to turn off the munition in flight.
  - Ability to employ under "sensory overload".