



## **Demonstrative Reconstruction Report**

Incident: Rooftop Engagement – Ramadi, Iraq August 19, 2006, 10:14:30 – 10:15:30

Prepared by: Cameron Quade, EReal360 LLC, Daniel Pinion, & Reagan Barr

Reconstruction Anchor Time: 10:14:30

### **1. Introduction**

My name is Cameron Quade, founder of EReal360 LLC, a company specializing in spatial documentation, 3D modeling, and digital exhibits for litigation support, civil investigations, and incident visualization.

I was contacted by Sean MacFarland to assist in reconstructing the rooftop engagement on August 19, 2006, in Ramadi, Iraq, based on newly compiled sworn statements, mission storyboards, and top-down analysis.

The objective was to digitally reconstruct the rooftop environment and position of personnel during a grenade attack in which SGT Quick lost his life; conveying the sequence of events in a fair and accurate manner.

### **2. Timeline and Spatial Orientation**

The reconstruction is anchored to the approximate time of 10:14:30, as confirmed in sworn statements by SGT Barr, the mission storyboard, and the official justification letter.

At this point in the mission, four U.S. soldiers, SGT Quick, SGT David Wall, SGT Regan Barr, and SGT Hector Rodriguez-DeJesus, were positioned on the rooftop of a two-story residential building conducting overwatch.

Enemy fighters approached from the streets below and launched attack, throwing four grenades in a tight cluster onto the rooftop from the ground below. The grenades landed between the northeast and mid-east sectors of the roof, triggering a reaction sequence that unfolded within seconds.

### 3. Key Points (Spatial + Timeline Breakdown)

#### Key Point 1 – 10:14:30 AM



#### **Rooftop Positioning Prior to Contact**

At approximately 10:14:30 AM, the rooftop team was in their final positions prior to the grenade attack. SGT Marqueses A. Quick was positioned near the northeast corner, approximately 2 meters from the north wall on the east side. SGT David Wall was located approximately 4-7 meters south of Quick, also along the east wall, manning a sniper position. SGT Regan Barr was at the southwest corner of the rooftop, and SGT Hector Rodriguez-DeJesus was positioned approximately 1 meter east of Barr along the southern parapet. The team was actively maintaining overwatch coverage with overlapping fields of fire and sector responsibility.

#### **SGT Wall:**

~10:14:30 Positioning SGT Regan Barr (Primary Statement): "SGT Wall set his sniper position about 4 meters south of SGT Quick." SGT David Wall (Own Statement): "I was located on the east side of the rooftop, approximately four meters south of SGT Quick." SGT David Wall (Own Statement): "I had my M24 SWS set up facing east from my position, covering the street in front of the building." SGT David Wall (Own Statement): "There was a table I was using as a rest for my rifle, placed in front of me against the wall." CSM Daniel L. Pinion (Justification Letter): "SGT Wall, positioned along the east wall south of SGT Quick, provided sniper overwatch for the team and the avenue of approach." SFC Michael Olienyk (Team Leader Statement): "SGT Wall was located on the southeast section of the roof with his sniper rifle covering the eastern street and alley." SPC Juan Ruiz-Soto: "When I came up to the roof, I saw SGT Wall on the east side near the

south corner, already wounded." SGT Regan Barr (Second Statement): "SGT Wall was farthest away from the stairwell and closest to the south edge of the roof."

### SGT Quick

~10:14:30am Positioning: SGT Regan Barr (primary statement): "SGT Quick positioned the M240B about 2 meters from the north corner of the roof on the east side, covering the objective and the main avenue of approach." SGT David Wall: "I was located on the east side of the rooftop, approximately four meters south of SGT Quick." SGT Regan Barr (second statement): "He was the closest to the stairwell, and could have easily jumped down the stairs" CSM D.L. Pinion (Justification Letter): "SGT Quick, positioned on the northeast corner, provided critical overwatch for adjacent teams."

### SGT Barr

~10:14:30 Positioning: SGT Regan Barr (Primary Statement): "I positioned the M249 on the southwest corner of the roof, overlooking the higher roof to our north..." SGT Regan Barr (Primary Statement): "SGT Rodriguez-DeJesus was our extra rotating man to trade out with for rest cycle. He positioned himself about one meter east of me." SFC Michael Olienyk: "Barr maintained the M249 and was placed at the southwest firing lane, where he could cover the open rooftop and western approach." SPC Juan Ruiz-Soto (by proximity): "I saw SGT Rodriguez-DeJesus positioned on the south wall near SGT Barr."

### SGT Rodriguez

~10:14:30 Positioning: SGT Regan Barr (Primary Statement): "SGT Rodriguez-DeJesus was our extra rotating man to trade out with for rest cycle. He positioned himself about one meter east of me." SGT Regan Barr (Primary Statement): "He had been asleep or resting just prior to the attack. He was lying near the south wall, close to my position." SPC Juan Ruiz-Soto: "When I reached the top of the stairs, I saw SGT Rodriguez-DeJesus positioned on the south wall near SGT Barr." SFC Michael Olienyk: "Rodriguez-DeJesus rotated with Barr during their rest cycle and occupied a position on the southern edge of the rooftop." SGT Hector Rodriguez-DeJesus (Own Statement): "At the time of the explosion, I was lying down facing the north, near SGT Barr. I had just rotated off security duty and was resting." SGT Hector Rodriguez-DeJesus (Own Statement): "I heard SGT Barr yell 'Grenade!' right before the blast went off. I tried to turn, but was hit in the back."

Source: SGT Wall statement, CSM Pinion justification letter, mission storyboard

**Key Point 2 – 10:15:00 AM**

**Enemy Grenades Thrown Over Parapet**



At approximately 10:15:00 AM, enemy combatants threw four hand grenades over the east parapet wall toward the rooftop team.



### Key Point 3 - Grenades land - 10:15:01



The grenades landed in a tight cluster spanning the northeast to mid-east section of the roof, between the positions of SGT Marquees A. Quick and SGT David Wall. The following describes the placement and rationale for each grenade based on sworn statements, measurements, and corroborating documents:

1. **Grenade 1 - Southernmost**
  - ~6 to 7 feet (1.8–2.1 m) from SGT Wall.
  - Direct quote from Wall: “A grenade landed about 6 or 7 feet in front of me.”
2. **Grenade 2 –Between Wall and Quick**
  - Estimated midpoint between Grenade 1 and Quick’s position.
  - Based on spatial overlap in witness accounts and expected cluster throw pattern.
3. **Grenade 3 - Just south of Quick’s firing lane**
  - Placed within 1–2 meters of Quick’s lane.
  - Consistent with witness descriptions of Quick moving into the blast zone.
4. **Grenade 4 - Nearest to Quick**
  - Within 1 meter of Quick’s position at the northeast corner.
  - Based on multiple statements confirming Quick was closest to the stairwell and grenades.

#### **Grenade Type Assessment:**

Based on witness descriptions (“black” grenade), blast effects, and common insurgent weapons used in Ramadi, the grenades were likely RGD 5 Soviet fragmentation

grenades. These are smooth bodied, dark colored, and lightweight (~310 g), with a ~5m lethal radius and 15m effective fragment radius. Their appearance and fragmentation profile closely match the fatal and non-fatal injuries observed in this incident. The F-1 grenade is also possible, however, less likely.

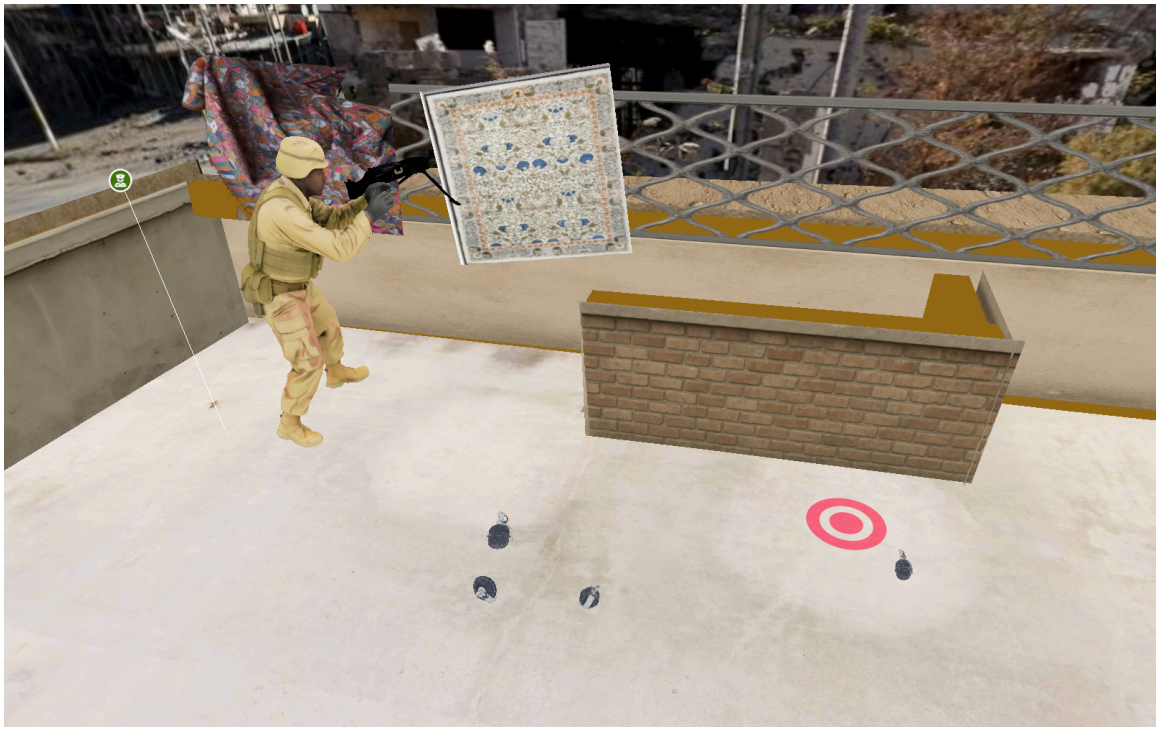
Sources:

- Sworn statements of SGT Wall, SGT Barr, SFC Olienyk
- U.S. Ordnance Reports on Soviet Fragmentation Grenades (RGD-5):  
Army Ordnance Info (GlobalSecurity)

**Key Point 4 & 5- SGT Barr announces “Grenades”: & SGT Quick Advances  
Toward the Blast Zone, Wall overturns table 10:15:02-04**





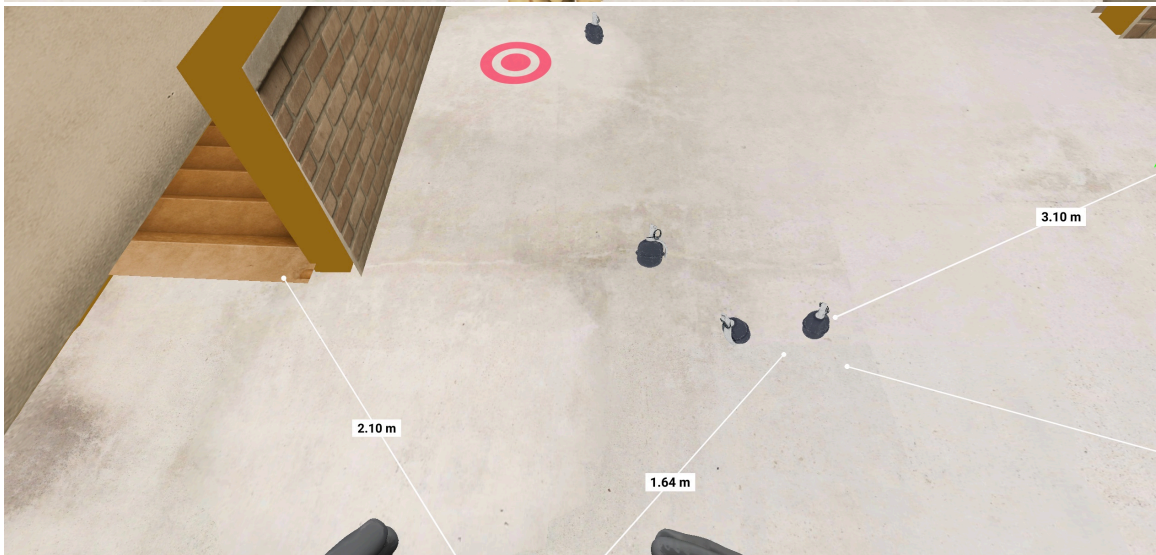














SGT Quick moves forward and places himself between the grenades and his team. This motion was confirmed by multiple witnesses and is consistent with fatal blast injuries recorded.

Source: Barr sworn statement: “SGT Quick was moving toward the grenades.”

“I overturned the table that I was using as rest for my rifle in front of me, trying to get it between the grenade and me.”

### **1. SGT Regan Barr (Primary Statement):**

“SGT Quick was moving toward the grenades.”

### **2. SGT Regan Barr (Second Statement):**

“SGT Quick was closest to the stairwell and could have easily jumped down, but he ran toward the grenades instead.”

CSM Pinion: “He deliberately moved toward the grenades and threw himself between the blasts and his fellow Soldiers.”



### Key Point 6 - 10:15:04 – Grenades Detonate & Injuries



At approximately **10:15:04**, the four grenades detonated, with all four Soldiers within the ~5-meter lethal blast radius of RGD-5 grenades and well inside the ~15-meter injury radius. **SGT Marqueses A. Quick** sustained catastrophic blast trauma, consistent with Herrud's statement: *"I found SGT Quick lying face down at the top of the stairs with severe head, neck, and abdominal trauma."* \*In his updated sworn statement, SGT David Wall further observed that SGT Quick had been **crawling toward the stairs** after the blasts and calling for SFC Olienyk, noting that a **blood trail showed he had moved through the grenade cluster** toward the stairwell. **SGT David Wall** was wounded but conscious, as he reported: *"I was hit in the left leg and my right toe,"* confirmed by Herrud's account of *"injuries to his left leg and right toe."* **SGT Hector Rodriguez-DeJesus**, who had been lying near the south wall, suffered back wounds, stating: *"I tried to turn, but was hit in the back."* **SGT Regan Barr** received minor fragmentation injuries, consistent with his remark: *"I felt fragments hit me,"* and Ruiz-Soto's observation that *"SGT Barr was cut up but able to move."*

**Source:** PFC Herrud medical statement; Barr, Wall, and Ruiz-Soto statements; justification letter.

#### Key Point 7 - 10:15:15-20 – SGT Quick found at top of stairwell



Between approximately **10:15:15** and **10:15:20**, **PFC Matthew Herrud (Medic)** reached the rooftop and located **SGT Marqueses A. Quick** lying face down at the top of the stairwell, consistent with his statement: *“I found SGT Quick lying face down at the top of the stairs with severe head, neck, and abdominal trauma.”* Seconds later, **SPC Juan Ruiz-Soto** arrived and confirmed Quick’s position, stating he saw *“SGT Quick at the top of the stairwell.”* Herrud also located **SGT David Wall** nearby with leg and toe injuries, and **SGT Rodriguez-DeJesus**, wounded in the lower back. These discoveries occurred immediately after the grenade detonations and align with the movement described in SGT Wall’s updated statement, noting Quick had been crawling toward the stairwell after the blasts.

#### 5. Materials Reviewed

- Eight sworn statements (Barr, Wall, Herrud, Olienyk, Ruiz-Soto, Tedesco, and second Barr)
- Mission storyboard (19 Aug 2006)
- Proxy spatial scan with Matterport Pro3

- CSM D.L. Pinion Medal of Honor justification letter
- GLB reconstruction model and textures
- Environmental overlays
- Combat engineering references on grenade blast radii

## 6. Conclusion

This reconstruction presents a fair and accurate spatial sequence of the 19 August 2006 rooftop engagement in Ramadi with maximum technical fidelity, anchored to the documented positions, eyewitness reports, and physical scale.

The seven key points show SGT Quick's deliberate and fatal decision to shield his team from a grenade cluster, in a confined and exposed combat space. All elements are measured and positioned based on firsthand testimony and physical plausibility.

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