CRG
CRITICAL RESPONSE GROUP
America's Common Operating Picture®

School Mapping Information Packet

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Mapping Technique Was Derived From a Military Best Practice

Validated and Implemented at the Highest Level


GRG in use during Bin Laden raid.

NAVY SEAL ROB O'NEILL

✓ Communication technique used by **US Military Special Operations** in every mission of the last 20 years.

✓ Turns the operational area **into a simple game of battleship**, so that operators from the different services, agencies, and nationalities can **speak a common language about an unfamiliar location under stress**.
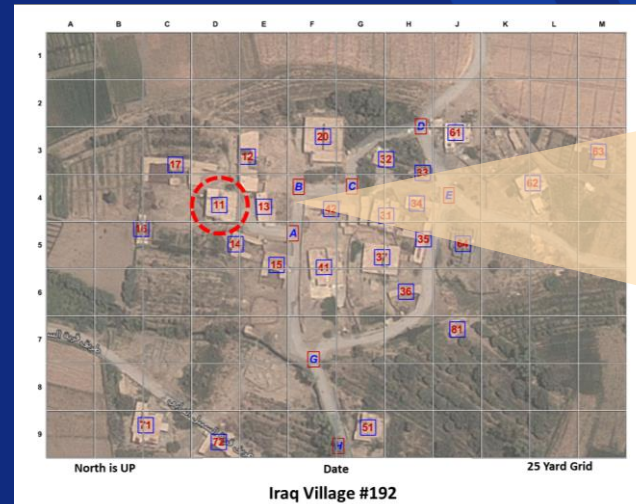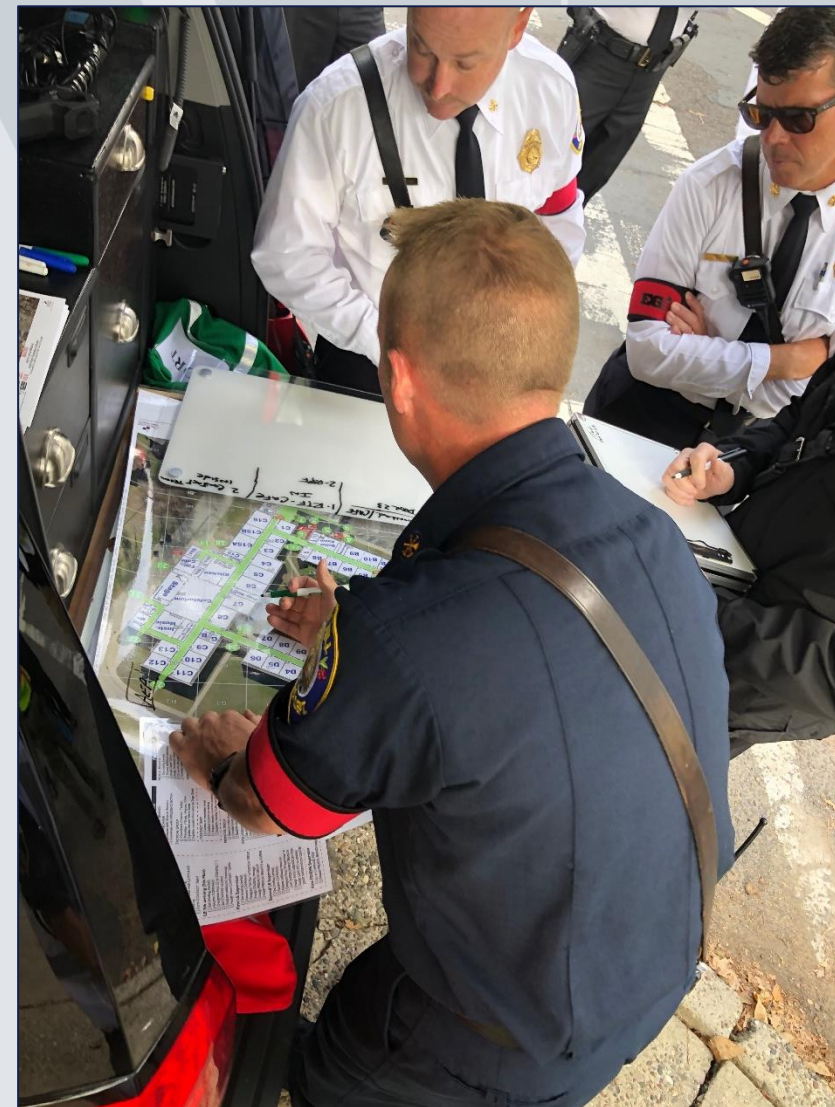

Sample gridded reference graphic.
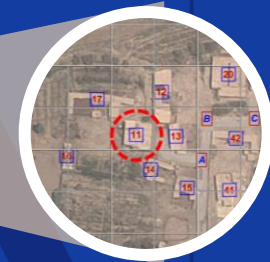
Adapted for Use by First Responders

Creating Usable Common Operating Pictures for First Responders

"Collaborative Response Graphics" or CRGs are standardized, site-specific common operating pictures that combine facility floor plans, that are verified by an on-site walk-through, high resolution imagery, and a gridded overlay together into one map that includes the accurate labeling of key features like room numbers, hallways, external doors, stairwells, key utility locations, parking areas.

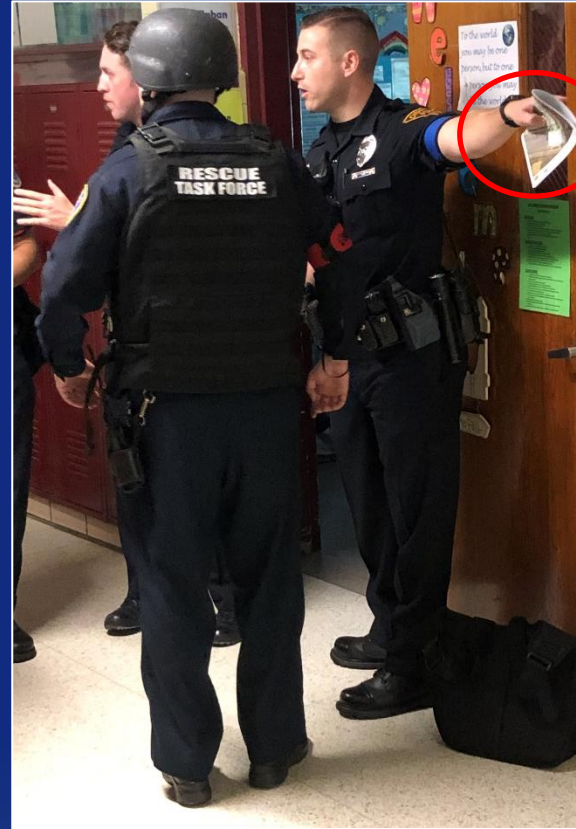# Used by All Disciplines and All Stages of Response
From Response to Recovery and Reunification

Tactical Command

Rescue Teams

Contact Teams

Unified Command Posts

Collaborative Response Graphics improve communication and control during all stages of emergency response. They are usable by first responders from any discipline, at any level.

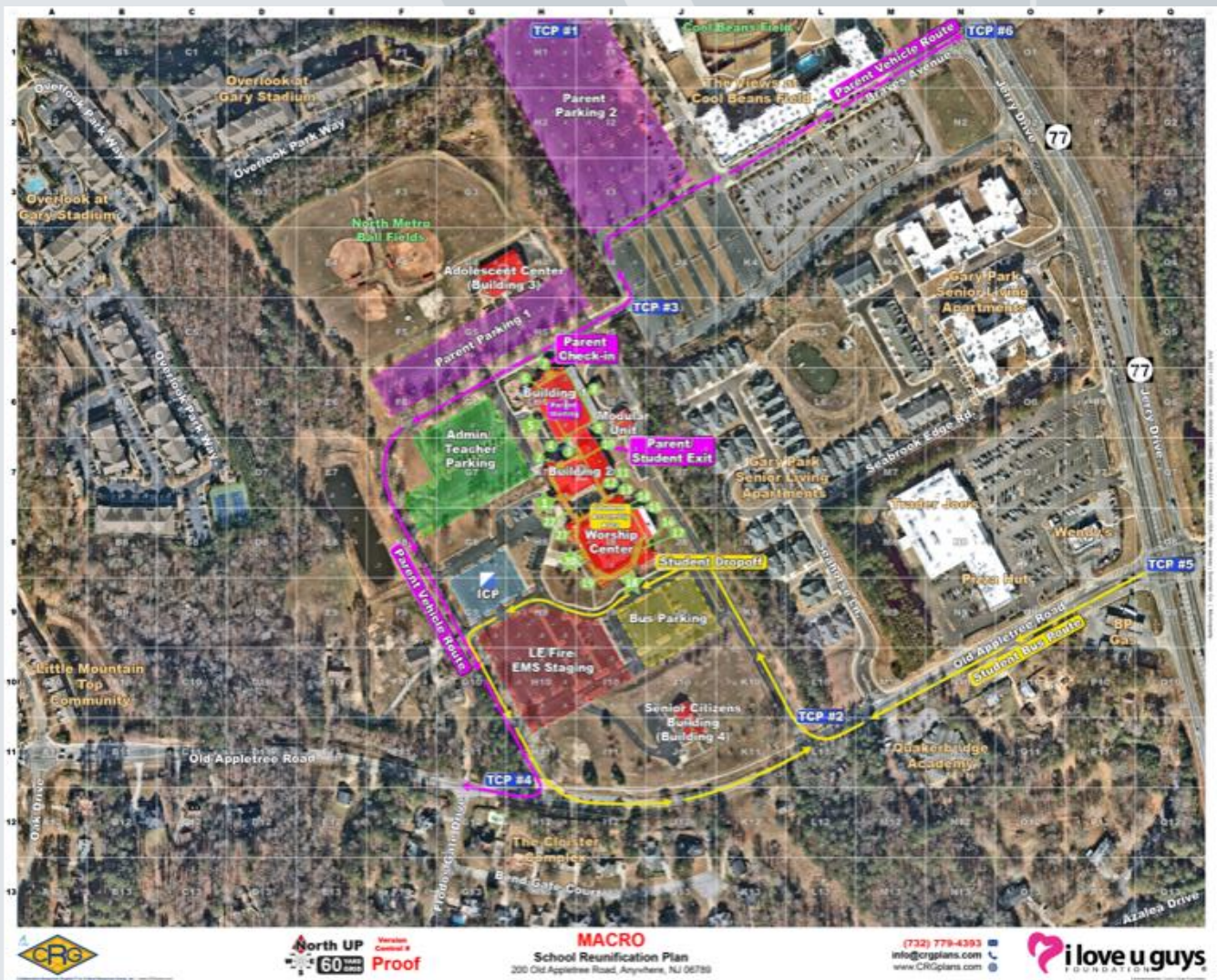# Micro & MACRO Two Types of Collaborative Response Graphics

A **Micro CRG** is created for **EACH FLOOR** to coordinate response inside of the building

A **MACRO CRG** is created for each campus to coordinate response outside of the building

CRGs can visually depict emergency action plans and pre-planning on our maps. This includes locations like staging areas, command post locations, traffic control points, evacuation routes, tornado/storm shelter locations in buildings, rendezvous locations, and reunification pre-planning.
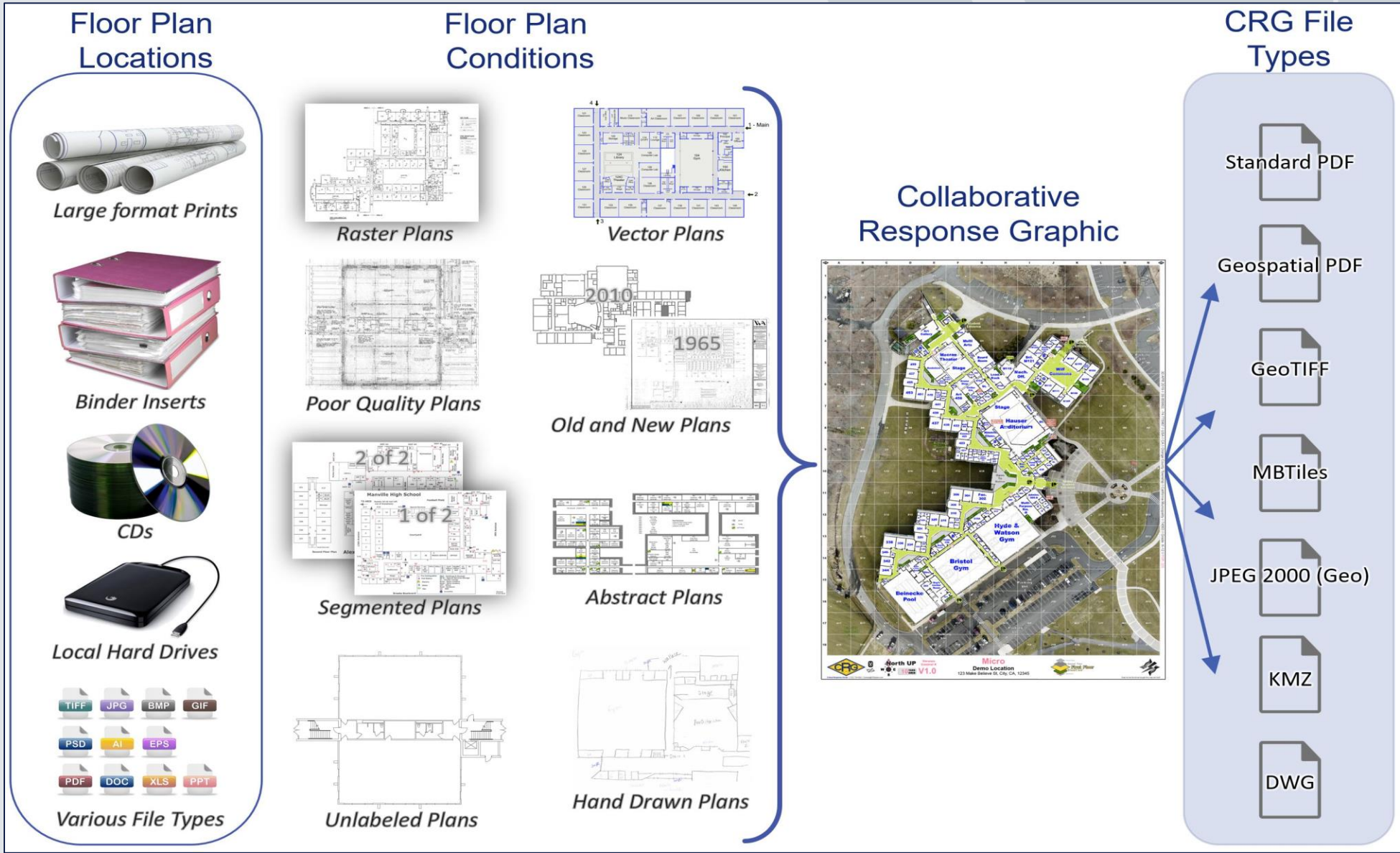
CRG converts unusable, inaccessible floor plans in Collaborative Response Graphics, which are then converted to multiple file formats so they can be accessed in any first responder software system.

Ensuring Everyone is on the Same Sheet of Music

-Integration into existing systems is key-

1. Integration into 911 Center

2. Integration into Safety Applications Used by Institution

3. Integration into First Responder Software Systems

4. Integration into First Responder Mobile Applications

Public Safety Answering Points (PSAP)
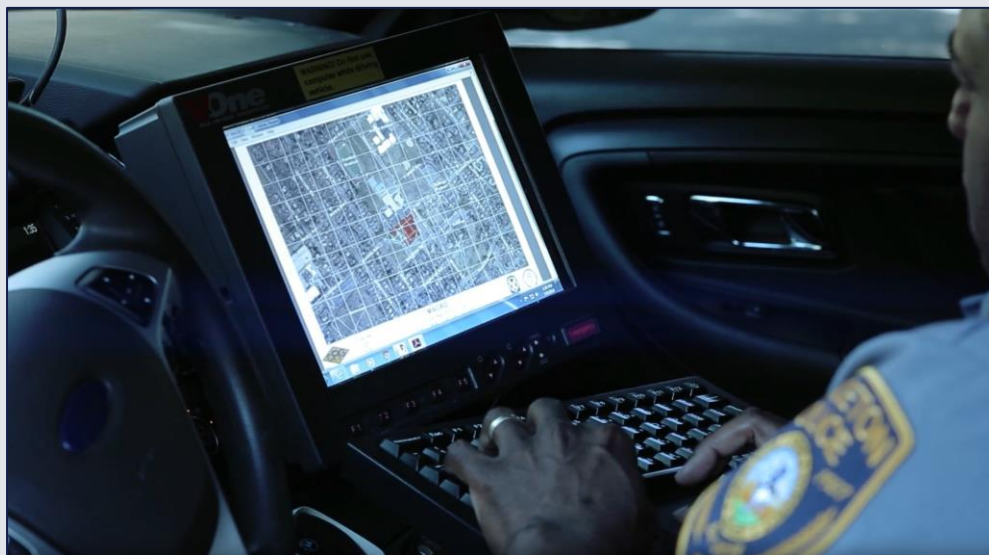## Integration through Radius Mapping

Integration into Existing Public Safety Software
Computer Aided Dispatch and other GIS platforms

Collaborative Response Graphics can be distributed to first responders through a variety of geo-referenced file types, allowing them to integrate into most pre-existing mapping systems like CAD platforms

Integration into School Safety Software
Panic Buttons and Camera Management Systems

Collaborative Response Graphics are integrated into existing school safety software systems
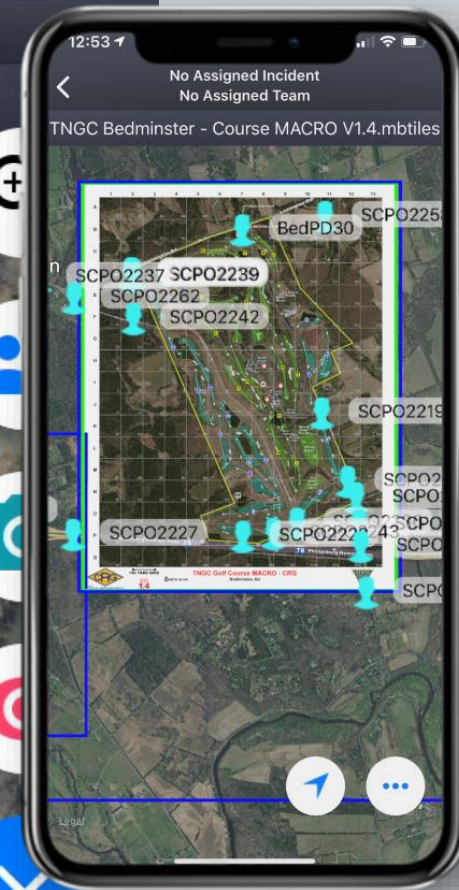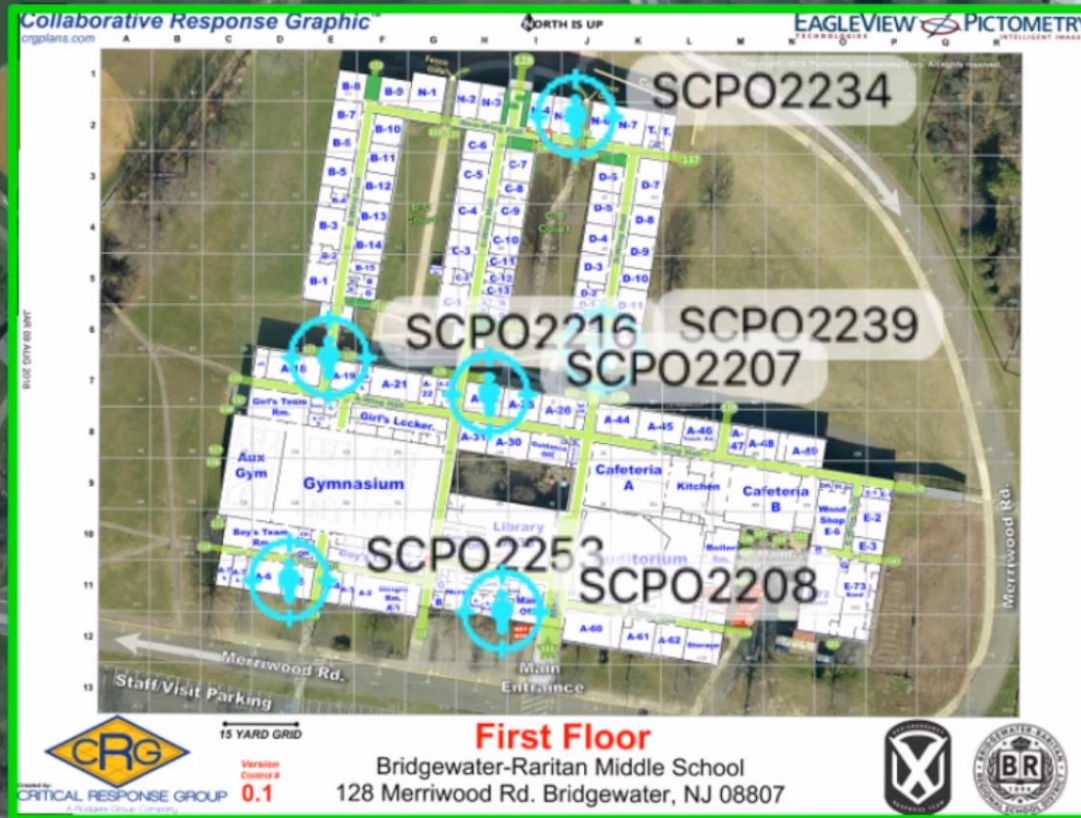
Integration into Interactive Mobile Applications
Tracking of First Responders on Indoor Mapping

With an accompanying mobile applications, first responders can track themselves on top of the CRGs in real-time using smart devices, both inside and outside a building.

School Mapping Legislation Basics
Best Practices to ensure school maps are accurate and accessible statewide

1. Compatible with software used by local, county, state, and federal public safety agencies without requiring such agencies to purchase additional software or requiring a fee to view or access the data

2. Compatible with school security software in use by the law enforcement agencies or school districts without requiring the purchase additional software or requiring a fee to view or access the data.

3. In a printable format and in a digital file format that can be integrated into interactive mobile platforms

4. Be verified by entity producing the data for accuracy by a walk-through of school buildings and grounds.

5. Be oriented true north.

6. Include accurate floor plans overlaid on current verified aerial imagery

7. Contain room labels, hallway names, and external door or stairwell numbers and locations of hazards, critical utility locations, key boxes, automated external defibrillators, and trauma kits.

8. Contain labeling that matches the school grounds, including parking areas, athletic fields, surrounding roads, and neighboring properties.

9. Be overlaid with gridded x and y coordinates.

10. Mapping data shall not be be modified or updated independently without corresponding updates to school mapping data within software platforms used by local, county, state, and federal public safety agencies