

# Critical Response to Schools: Fostering GIS in Public Safety



**BETSI CHATHAM, GIS MANAGER**

# CRITICAL RESPONSE TO SCHOOLS

- ACTIVE SHOOTER COMMITTEE
- GIS DISCUSSION
- EXTERIOR
- INTERIOR
- PRODUCTS
- RECOGNITION
- HOUSE BILL 3
- FUTURE

# ACTIVE SHOOTER COMMITTEE

- **NORTHEAST TARRANT COUNTY AREA SWAT TEAM**
  - Bedford, Euless, Grapevine & Hurst
  - 9 Officers
  - 3 Crisis Negotiators
- **CONCEPTUAL (TALK)**
  - Meetings
- **ACTION (WALK THE TALK)**
  - Become familiar with school layouts
- **MAPPING**
  - Google markup maps did not suffice
- **COMMON OPERATING PICTURE**
  - Standardized maps



# GIS DISCUSSION

- **CONTACT GIS**
  - Build upon existing relationship
- **DATA NEEDS**
  - Exterior (access)
  - Interior (navigation)
- **ARCGIS FIELD MAPS**
  - Formerly Collector for ArcGIS
  - Web map services
  - Mobile & Desktop
  - Quick training session



## ArcGIS® Field Maps



Collector  
for ArcGIS

Accurate data collection made easy

# EXTERIOR

- **BUILDING SIDES**

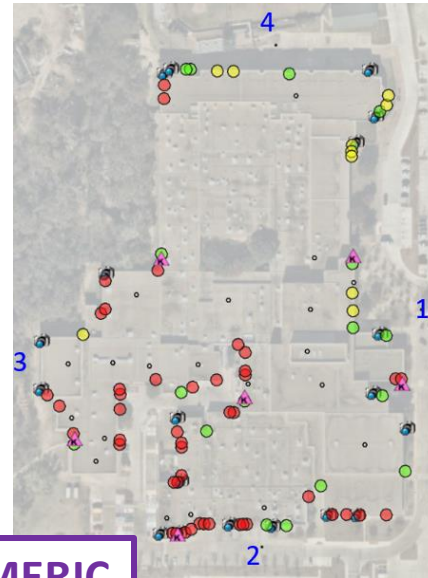
- Police utilize numeric
- Fire utilize alphanumeric

- **COMMON OPERATING PICTURE**

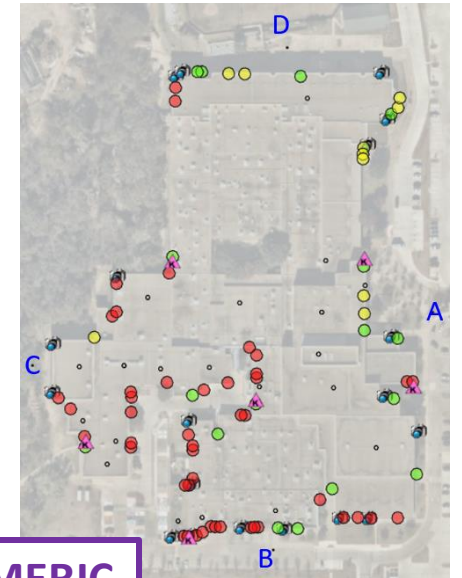
- Conflict issue
- Phonetical issue

- **NATIONAL INCIDENT MANAGEMENT SYSTEM (NIMS)**

- Alpha = front side
- Bravo = left side
- Charlie = rear side
- Delta = right side



NUMERIC



ALPHANUMERIC



# EXTERIOR

- **ACCESS INTO SCHOOLS**

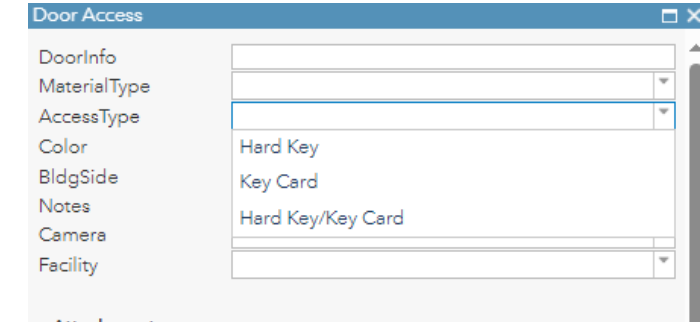
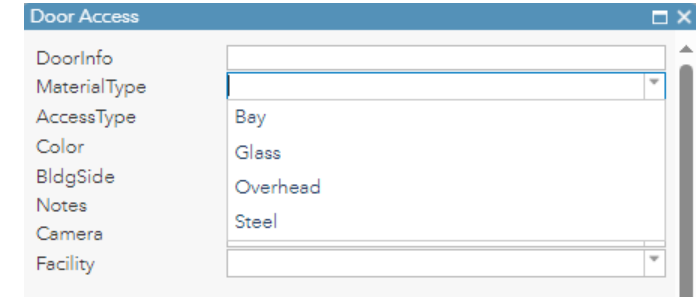
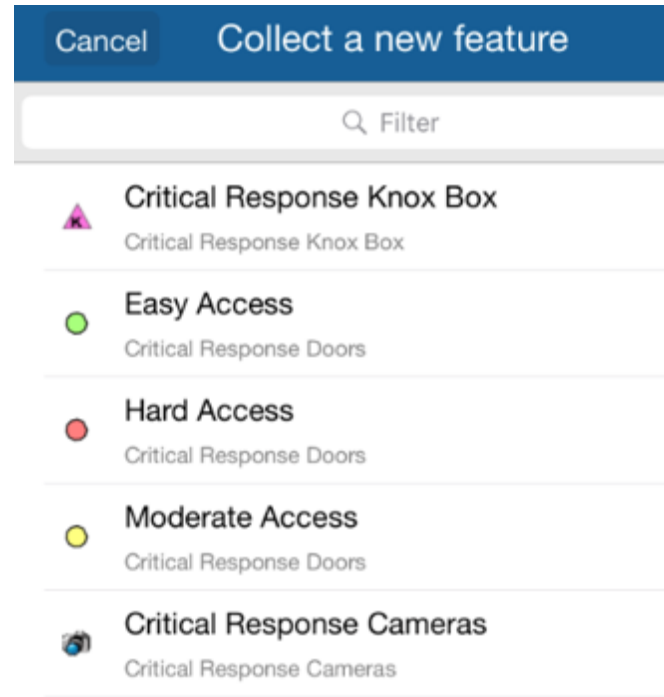
- Knox Boxes
- Cameras
- Door material type
- Key type

- **ACCESS LEVELS**

- Dependent upon door & key types

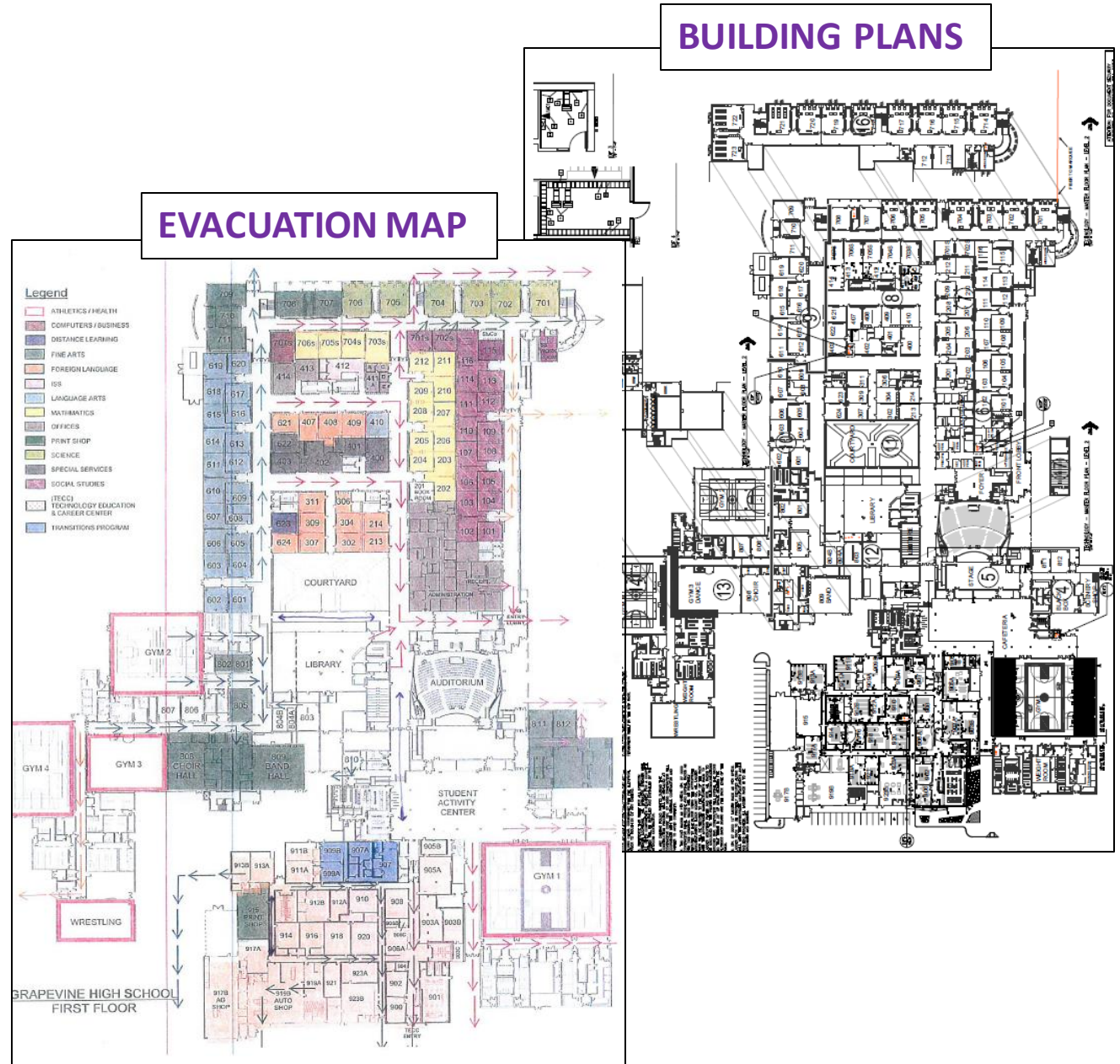
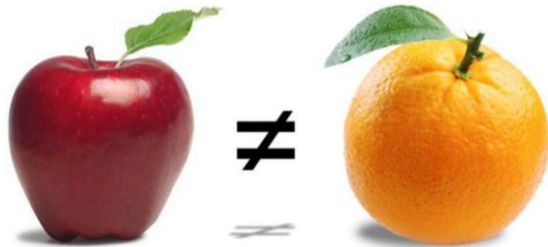
- **COMMON OPERATING PICTURE**

- SWAT & Incident Command



# INTERIOR

- **EXISTING MAPS**
  - Building plans
  - Evacuation maps
  - Too detailed
  - Not standardized
- **COMMON OPERATING PICTURE**
  - Non-existent
  - Apples to oranges



# INTERIOR

- **STANDARDIZED SYMBOLOGY**

- Building footprints
- Classroom numbers/letters
- Internal Doors
- Restrooms
- Cameras
- Knox Boxes
- Labeling

- **COMMON OPERATING PICTURE**

- SWAT/Police/Fire
- Incident Command
- Dispatch
- School District





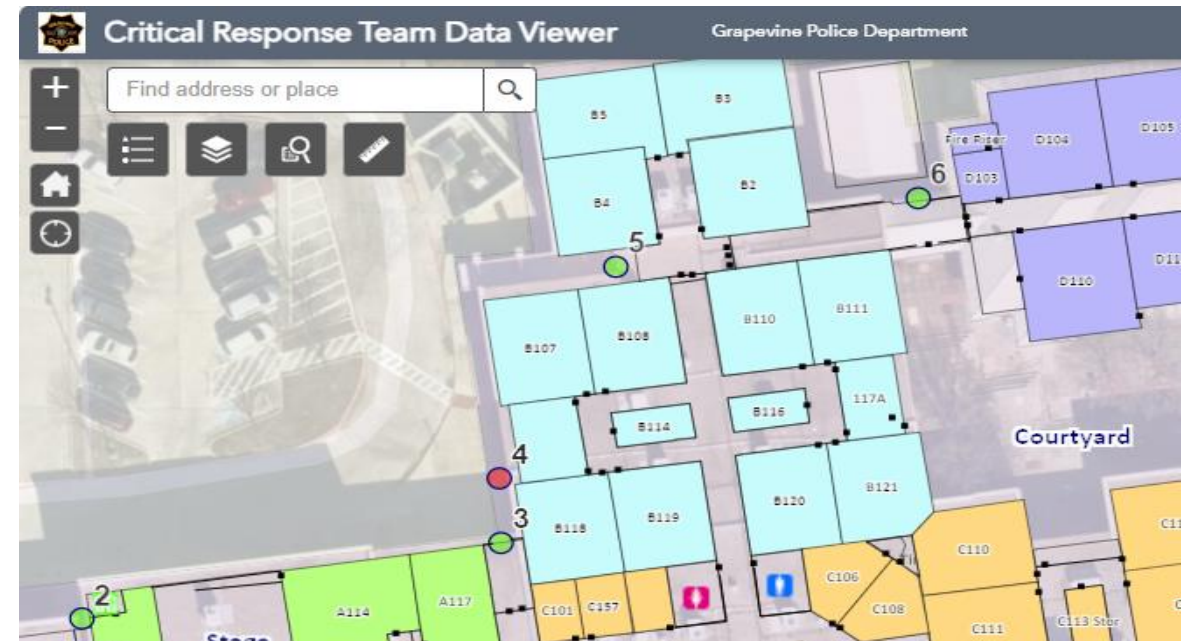
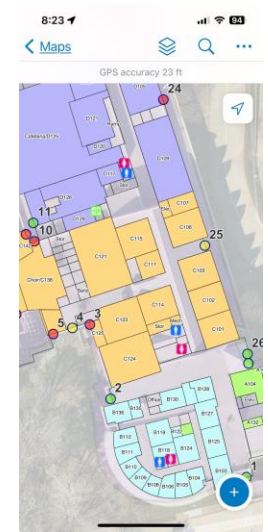
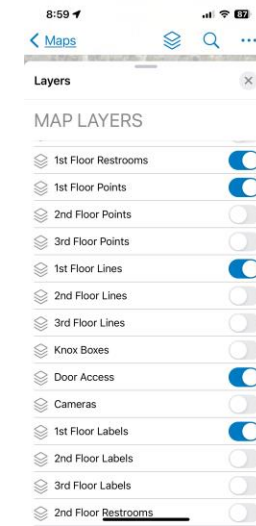
# PRODUCTS

- **ARCGIS ONLINE**

- Data Editor Field Maps App
- Critical Response Team Data Viewer
- Hard/Digital Maps

- **USERS**

- SWAT/Police/Fire
- Incident Command
- Dispatch
- School District



# RECOGNITION

## 2023 STATE OF TEXAS LAW ENFORCEMENT ACHIEVEMENT AWARD FOR PUBLIC SERVICE

GRAPEVINE POLICE OFFICER PATRICK O'NEAL



# RECOGNITION

2021 ESRI

SPECIAL ACHIEVEMENT AWARD

IN GIS

GRAPEVINE GIS TEAM

BETSI CHATHAM, GIS MANAGER

MICHAEL ROGERS, GIS ANALYST

LARRY BLAKE, GIS TECHNICIAN



# HOUSE BILL 3

- Relating to measures for ensuring public school safety, including the development and implementation of purchases relating to and funding for public school safety and security requirements and the provision of safety-related resources
- Passed June 14, 2023
- Effective September 1, 2023



# HOUSE BILL 3

- **SECTION 8 – SCHOOL RESOURCE OFFICERS**

- Employ or contract security personnel
- Interlocal agreement with local jurisdictional public law enforcement

- **SECTION 16 – EMERGENCY RESPONSE MAP**

- Site & Floor Plans
- Access Control
- Exterior Door Numbering
- Walk-Throughs



# FUTURE

- **SCHOOLS**

- Data Maintenance Interlocal Agreement
- Mutual Aid
- Paint hallways to correspond with map colors

- **COMMERCIAL**

- Resort hotels
- Tourist venues
- Grapevine Mills Mall

# QUESTIONS?



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