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CELRL-PM-R

29 May 2012

ARCOS BULLITEN 2012-2

SUBJECT: IDS Requirements

1. REFERENCE:
  - a. UFC 4-171-05, Army Reserve Facilities
  - b. Army Reserve Design Process Submittal Requirements (DPSR)
  - c. IDS Responsibilities ( ENCLOSURE 1)
2. This memorandum is to serve as updated guidance concerning the installation of Intrusion Detection Systems (IDS) in Army Reserve facilities. The IDS for Arms Vaults, SIPR Cafes, and other secured spaces are currently acquired through a separate contract by USACE and installed near the end of construction. The IDS installer is responsible for determining the final location of the IDS panel, sensors, and other associated equipment. However, to avoid future construction modifications, the designer of record shall estimate the location of the IDS equipment. Location of cages, gun racks, and other equipment shall be coordinated with the RSC DES representative during design.
3. For Army Reserve facilities located on an installation, IDS requirements may vary. The designer of record shall verify if the IDS is to be monitored by an installation monitoring station or by the Ft. McCoy Monitoring Station. If the IDS is to be monitored on the installation, the design must meet the installation requirements.
4. IDS installation responsibilities for the construction contractor and the IDS installer are included in Enclosure 1.
5. The Designer shall estimate the location of the sensors on the electrical drawings. In addition, the location of the caging and gun racks shall be included on the electrical drawings to assist sensor placement. Guidance for estimating sensor locations is as follows:

- a. Sensors shall be placed in the arms vault to ensure line of sight coverage for a minimum of 90% of the vault. Cages and tall gun racks are obstructions that interfere with line of site.
  - b. A minimum of one sensor should be placed in each cage near the door location. Additional sensors within cages may be required due to gun rack locations.
  - c. For SIPR Café, two sensors are typically required due to privacy wall requirements.
6. A note shall be included on the drawings indicating the sensor locations are estimated and shall be coordinated with the IDS installer prior to conduit placement. The drawings should clearly note the items that are the responsibility of the construction contractor and the responsibility of the IDS installer.
  7. The location of the exterior cell antennae and siren shall be coordinated with the RSC DES representative during design. An exterior siren is only required for the Arms Vault installation.
  8. A network data outlet shall be provided at each IDS location.
  9. This guidance will be incorporated into future updates of the Army Reserve Design Guide and DPSR and is intended to be utilized as interim requirements until those updates occur.

The point of contact for questions to this guidance is Bruce Brandt (502) 315-6846, [Bruce.B.Brandt@usace.army.mil](mailto:Bruce.B.Brandt@usace.army.mil) or Mike Higgins (502) 315-7472, [Michael.F.Higgins@usace.army.mil](mailto:Michael.F.Higgins@usace.army.mil).

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## **ENCLOSURE 1 – IDS Responsibilities**

### **Construction Contractor Responsibilities**

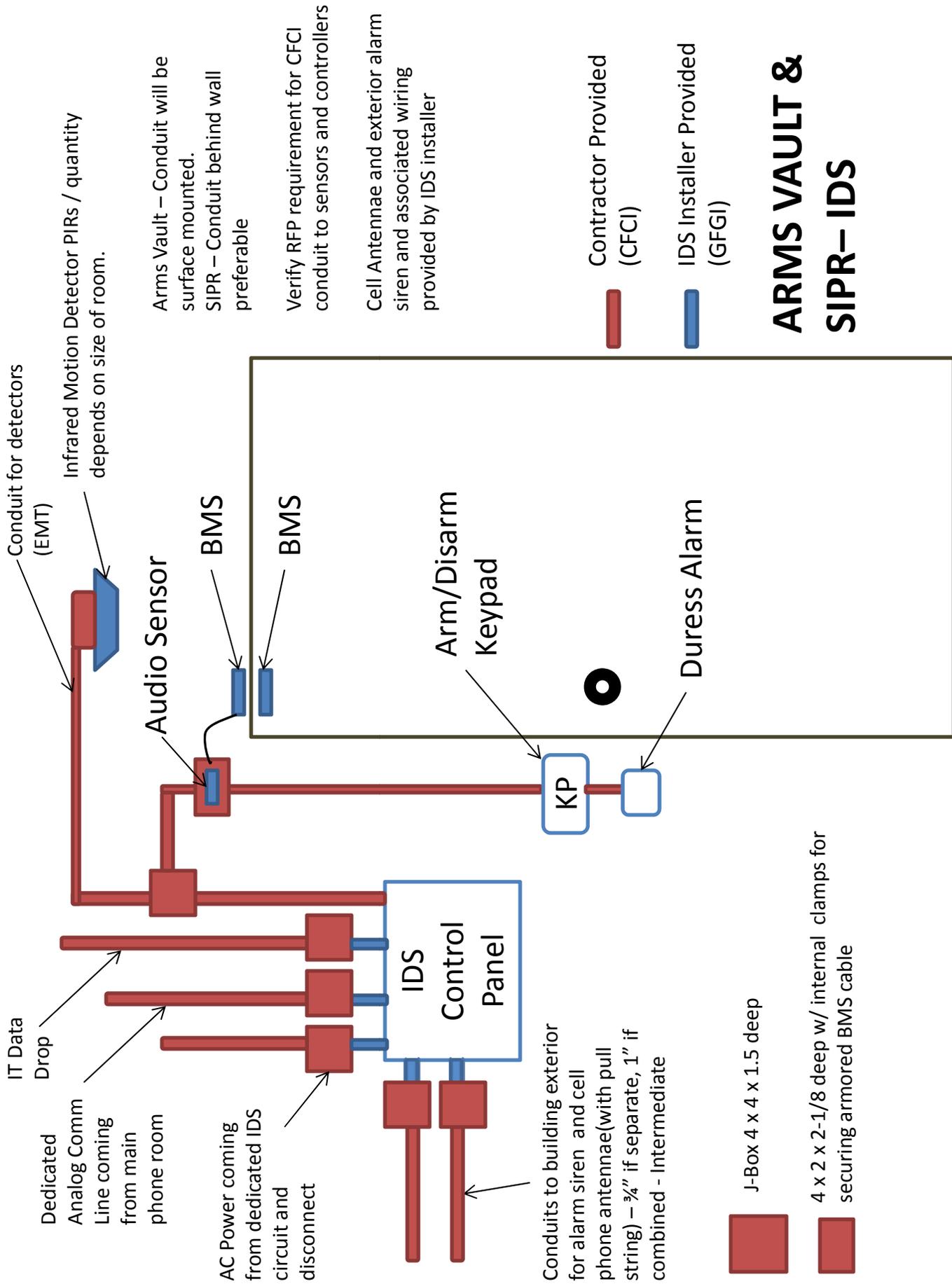
1. Electric power in conduit on dedicated circuit and disconnect provided at IDS location for each system
2. Active analog telephone line in conduit provided at IDS location
  - \*\*If applicable, ensure modem blocks are removed from the PBX or central hub
  - \*\*Long distance service must be active
3. Conduit from IDS location to building exterior for siren and cell phone antennae
  - \*\* Cell phone antenna may be mounted high on the building side wall or eave to avoid roof penetrations
4. Conduit from IDS Panel to Sensors, switches, controllers, and alarms
  - \*\* Verify RFP/contract requirements for conduit.
  - \*\* For SIPR, it is preferable the conduit be located behind the wall however surface mounted conduit acceptable.
  - \*\* EMT conduit required in secure space and outside of building. Intermediate conduit allowed in other areas of the building.
5. IT Data Drop

### **IDS Installer Responsibilities**

1. IDS Control Unit, Keypad, Balance Magnetic Switch, and Sensors, Duress Alarm, and Audio Sensor
2. Siren at building exterior
3. Cellular backup and exterior cell phone antenna
4. Balance Magnetic Switch

### **User/RSC Responsibilities**

1. Provide cell phone service for IDS backup
2. IDS Installation Acceptance



IT Data Drop

Dedicated Analog Comm Line coming from main phone room

AC Power coming from dedicated IDS circuit and disconnect

Conduit for detectors (EMT)

Infrared Motion Detector PIRs / quantity depends on size of room.

Audio Sensor

BMS

BMS

IDS Control Panel

Arm/Disarm Keypad

Conduits to building exterior for alarm siren and cell phone antennae (with pull string) - 3/4" if separate, 1" if combined - Intermediate

Duress Alarm

J-Box 4 x 4 x 1.5 deep

4 x 2 x 2-1/8 deep w/ internal clamps for securing armored BMS cable

Arms Vault - Conduit will be surface mounted.

SIPR - Conduit behind wall preferable

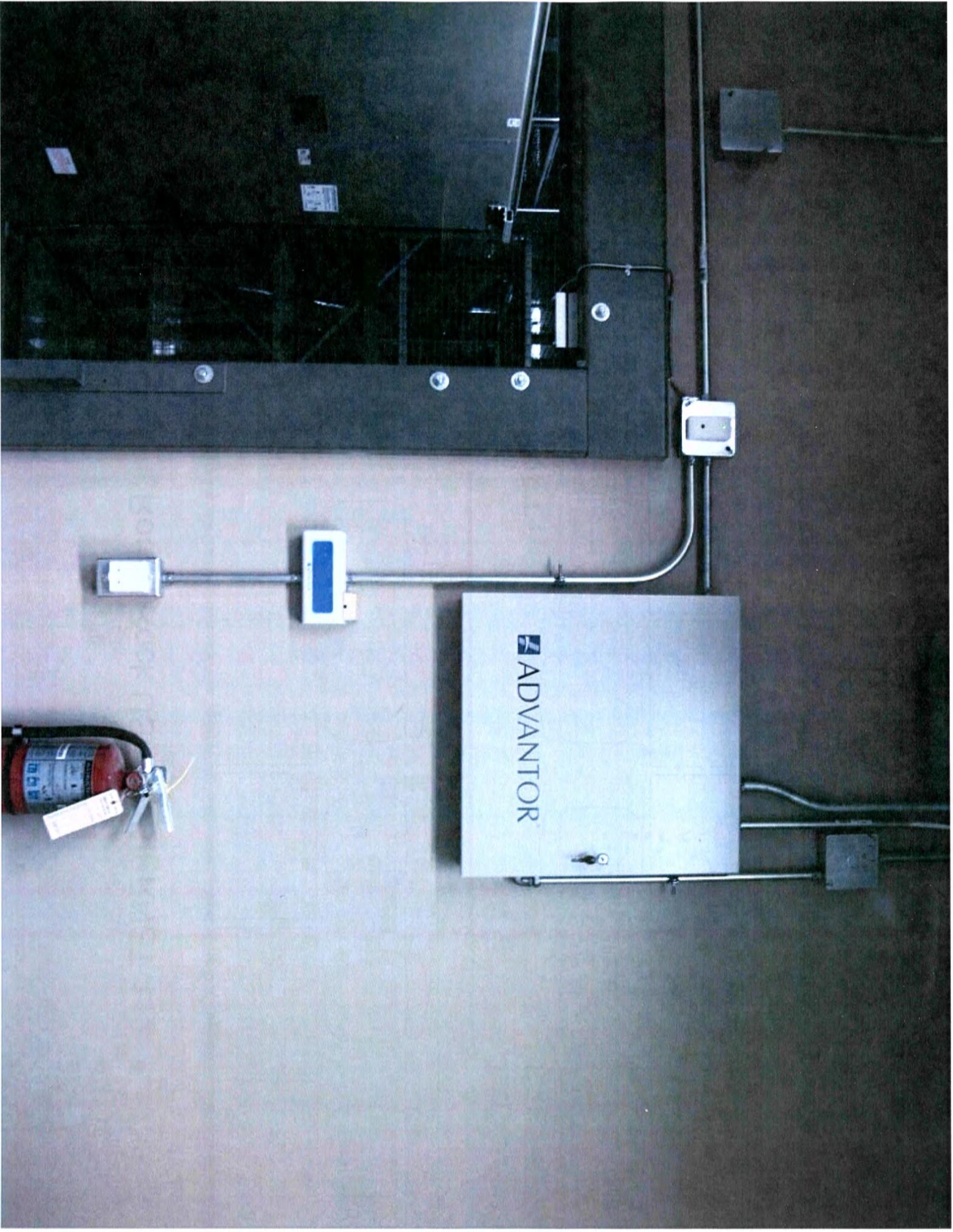
Verify RFP requirement for CFCI conduit to sensors and controllers

Cell Antennae and exterior alarm siren and associated wiring provided by IDS installer

Contractor Provided (CFCI)

IDS Installer Provided (GFGI)

# ARMS VAULT & SIPR-IDS



# Round Rock USARC SIPRNET 112

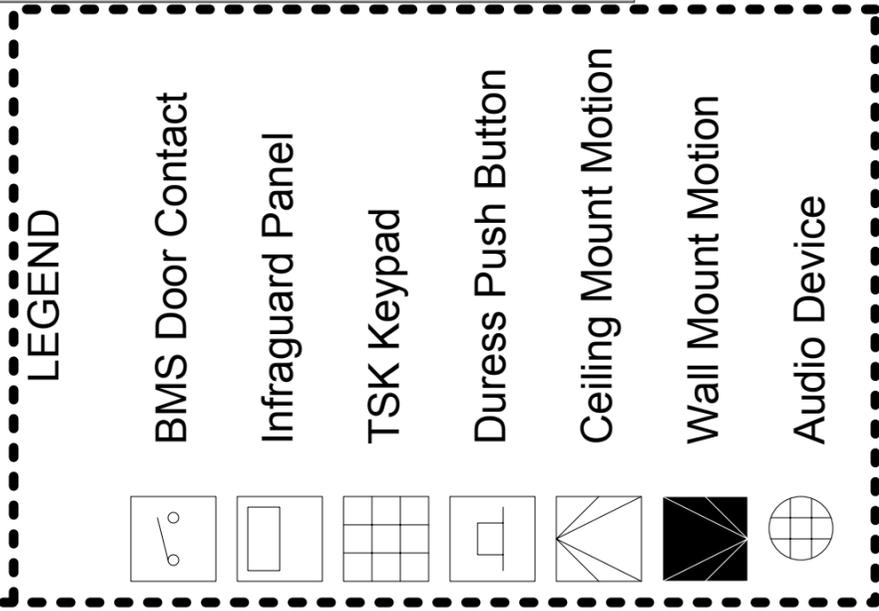
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Cell

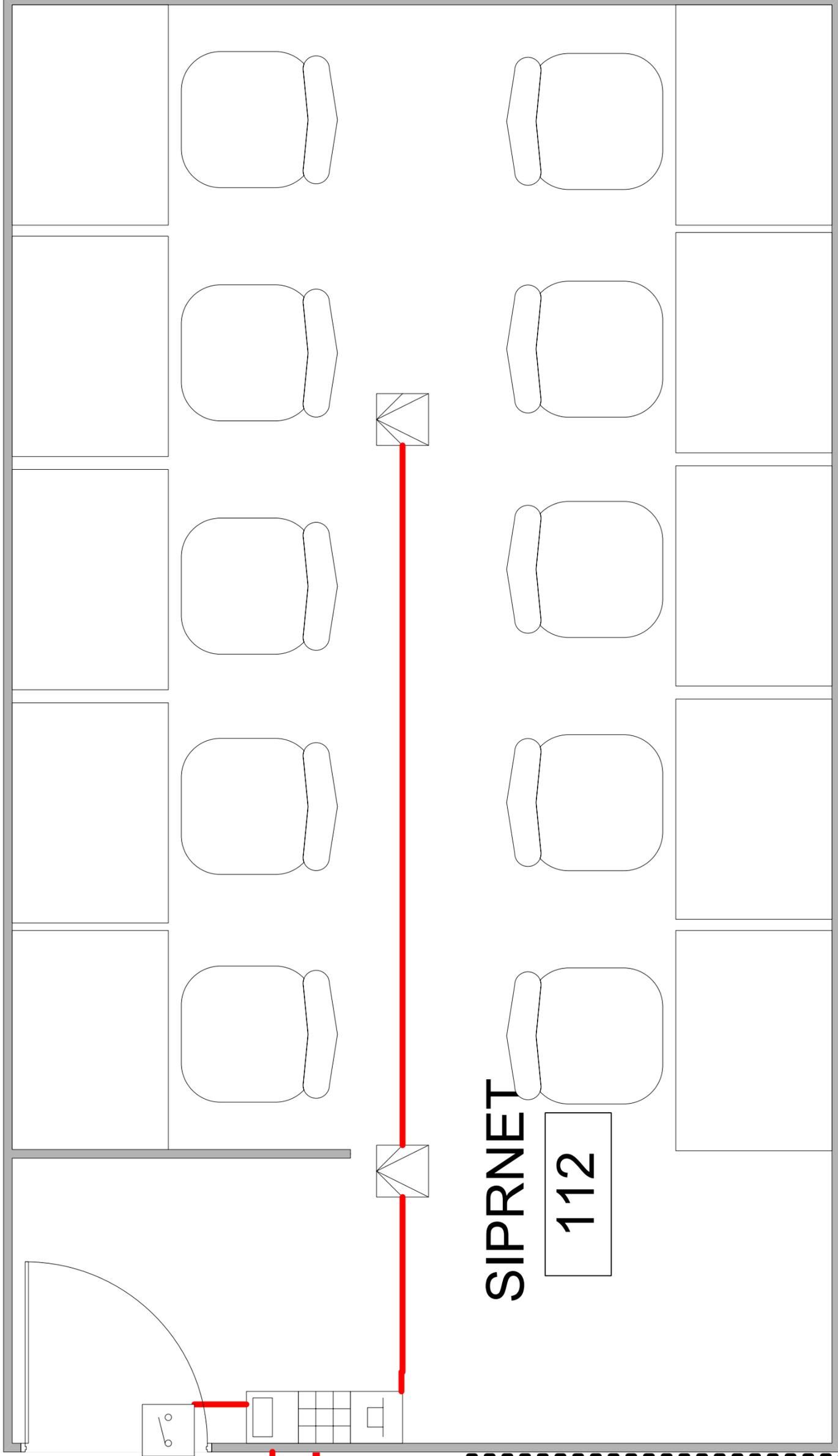


Power,  
Telephone,  
IT



## LEGEND

- BMS Door Contact
- Infraguard Panel
- TSK Keypad
- Duress Push Button
- Ceiling Mount Motion
- Wall Mount Motion
- Audio Device



## SIPRNET

112

1

The Alarm and Cell conduit will run to location determined by RSC DES

# Joliet UASRC Vault 124

1

Alarm  
&  
Cell

1

The Alarm and Cell conduit will run to location determined by RSC DES

