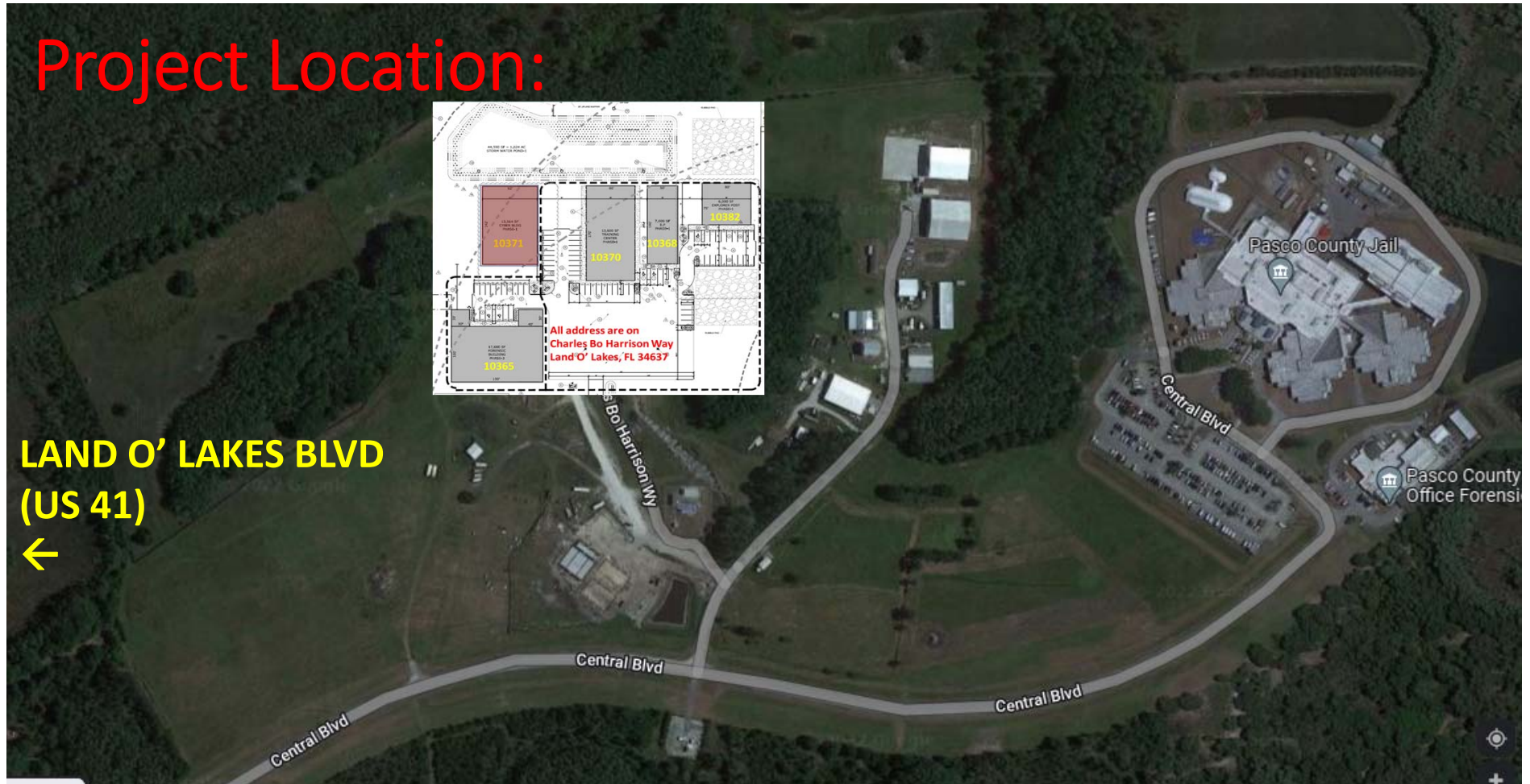


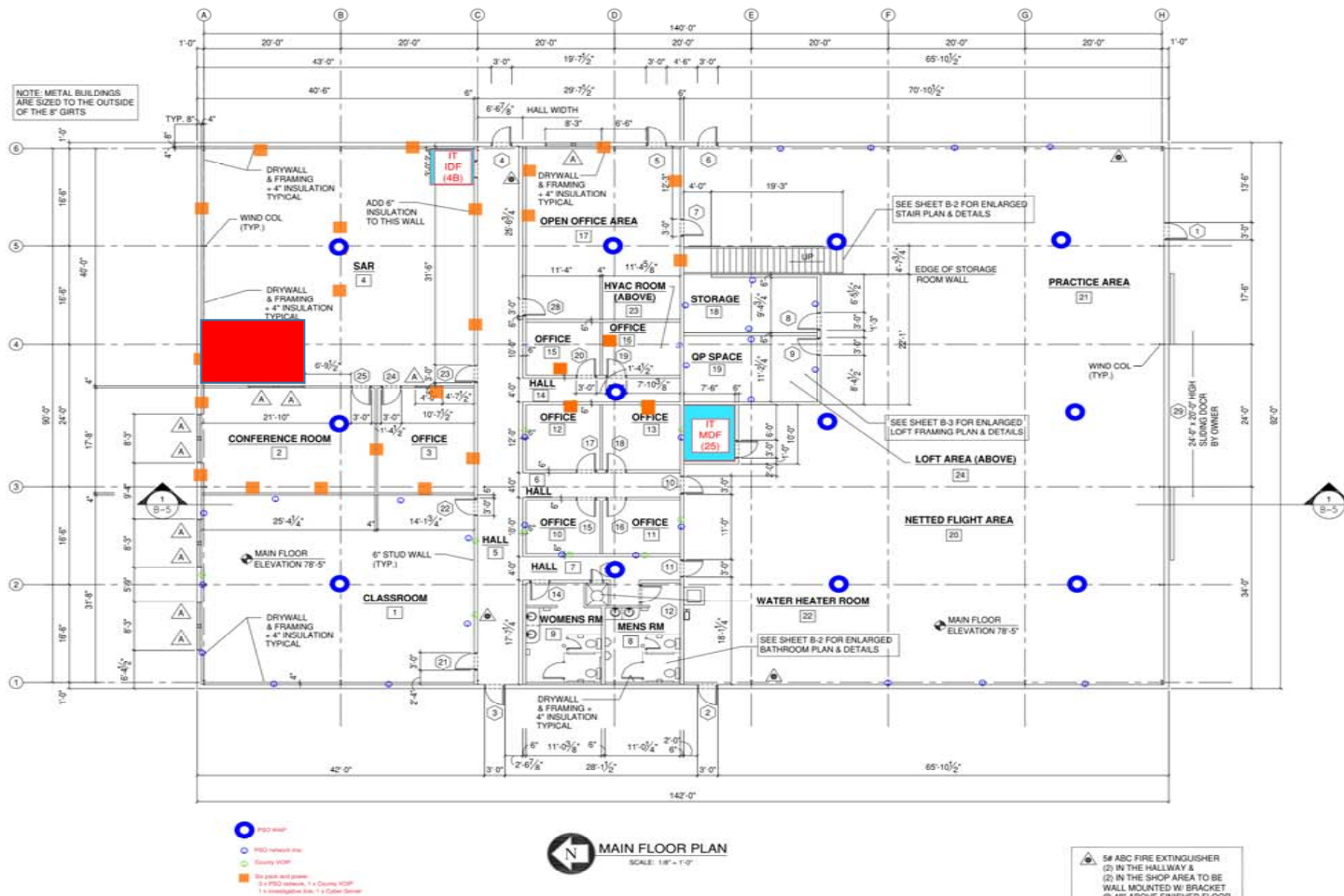
2FY23 – Faraday Chamber for
Cyber/SAR Building

Project Location:



**LAND O' LAKES BLVD
(US 41)**





ALL WORK SHALL COMPLY WITH THE
2017 FLORIDA BUILDING CODE,
6TH EDITION.

FIRM LICENSE
CA #5469

R. M. COLE
PROFESSIONAL ENGINEER
FLORIDA NO. 83903

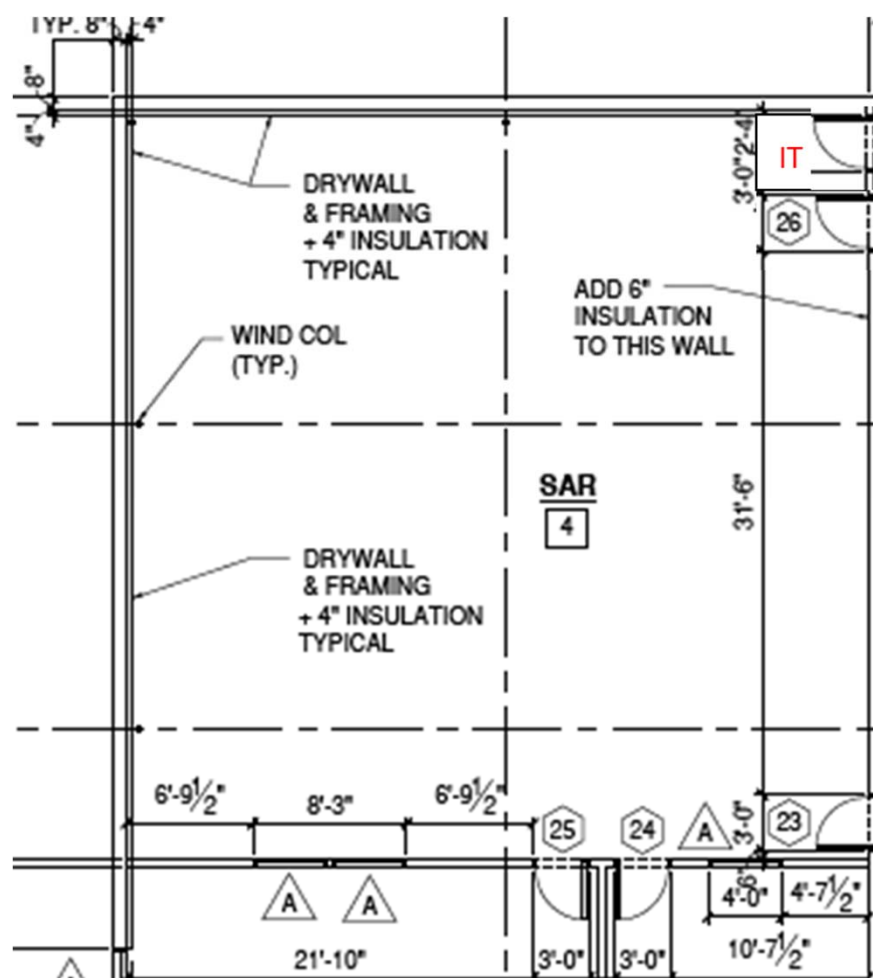
BUILDING
FLOOR PLAN

B-1

A-2020

PASCO COUNTY SHERIFF'S DEPARTMENT
10370 CHARLES BO HARRISON WAY, LAND O' LAKES - FLORIDA, 34637
ROBERT COLE & ASSOCIATES, ENGINEERS
7711 HORSE WIND ROAD, ODessa, FLORIDA, 33556

DESIGNED BY	RM
DRAWN / CHECKED	JAC
DATE	11/18/20
APPROVED	RM
DATE	08/02/20



Key Dates

- December 15, 2022 3PM – question deadline
 - Every request for additional details must be in writing, addressed to the Purchasing Manager, and emailed to purchasing@pascosheriff.org. Please reference **2FY23**.
- December 20, 2022 3PM – proposals due
- December 21, 2022 10AM – proposal opening
 - Pasco Sheriff's Office F1RST Innovation Building
10370 Charles Bo Harrison Way, Land O' Lakes, Florida, 34637

Outline Format for Response

Format Proposers must submit in response to this RFP to be considered responsive. In the event any of the following information is missing, the proposal shall be disqualified.

- A. Include an introductory letter from Proposer addressing the response.
- B. Proposer's Relevant Project Experience. Provide no more than three (3) relevant projects. Describe Proposer's experience with similar projects. Submit a listing of all current projects with contact person, contact telephone number, and total contract amount.
- C. Provide a schedule overview for the Project.
- D. Provide an estimated schedule of payments by month for the project. During each month of installation, Proposer should provide an estimate for billed work performed during that timeframe. Proposer may identify months by number (Month 1, Month 2, Month 3, etc).
- E. Prices must be quoted only upon the **Proposal form** attached to RFP and identified as the Request for Proposal (Part III), and no other Proposals will be accepted. All prices quoted are to be F.O.B. for the designated Project site in Pasco County, Florida. Alternates may be proposed as requested and attached to the Proposal form for consideration by PSO. PSO reserves the right to accept or reject all, some, or none of the proposed alternates.
- F. Provide five (5) references for the most recent projects of similar size and scope completed by Proposer. Proposer shall include contact names, company name, phone numbers, date of recent project completion, and total contract amount.
- G. If claiming to be a local business, Proposers should provide a local business tax receipt showing a current principal place of business in Pasco County.

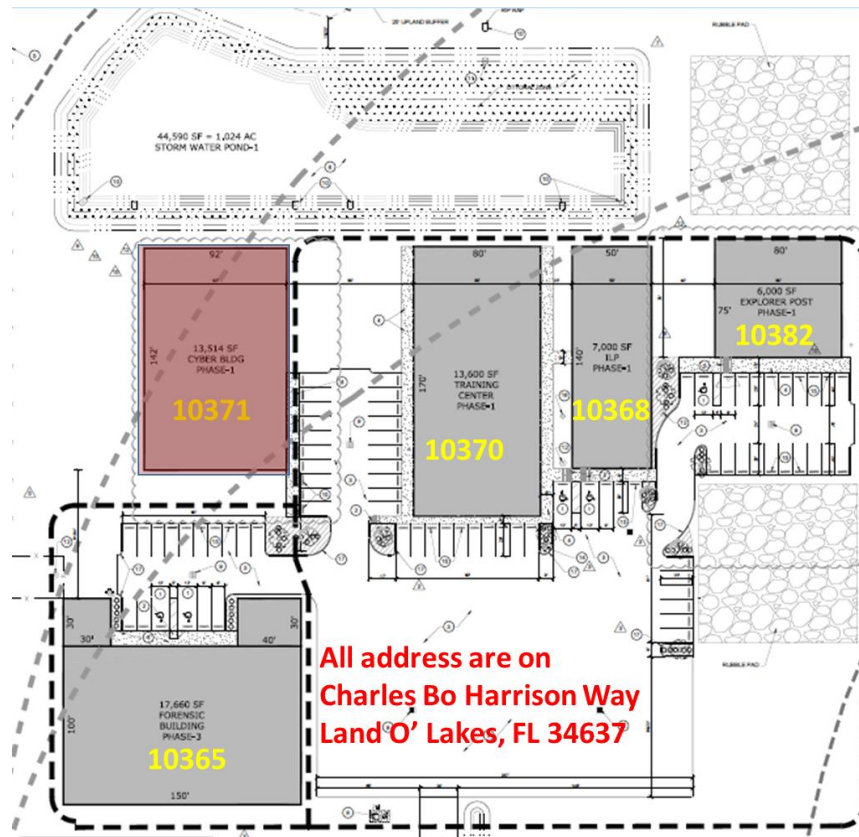
Attachment A

Faraday Chamber for the FIRST Cybersecurity/SAR Building

SCOPE OF WORK

The primary scope of work for the FIRST project is the successful delivery, installation, and configuration of a Faraday chamber for the FIRST Cybersecurity/SAR building at the Pasco Sheriff's Office (PSO) including as outlined below. Chamber to be installed in area of building where indicated in Attachment B.

Building/Site Overview



1.0 FARADAY CHAMBER REQUIREMENTS

The proposed system will provide attenuation as follows:

Magnetic Field – 20 dB at 1 KHz rising to 100 dB at 200 KHz

Electric Field – 100 dB from 200 KHz to 50 MHz

Planewave Field – 100 dB from 50 MHz to 10 GHz

Ability to block 2G, 3G, 4G, 5G, LTE, Bluetooth 1/2/3, WiFi 2.4Ghz, WiFi 5Ghz, SatNav, GPS, RFID (HF), RFID (Active), RFID (UHF).

The proposed system shall consist of the following:

Test Room – approximately 10' W x 10' L x 8' H

Vestibule – approximately 3' W x 3' L x 8' H (a section contained within corner of test room)

The shielded chamber will have the following specifications:

- Completely enclosed chamber; please quote chamber with top half copper mesh as alternate (see images provided below as examples for reference only).
- Polyvinyl and masonite underlayment used as an isolating barrier
- 1/8" vinyl filler tile installed between floor flat channel
- Two (2) RF shielded personnel doors with clear opening 3 ft. x 7 ft., Type RCM-154.
- With heavy duty interlock switch. Doors shall be equipped with three heavy duty hinges and a three-point latching system. RF doors will include interlock system of Red & Green lights, and 4-wire filter. *Electrical wiring can be performed by PSO given requirements and specifications are coordinated in advance by VENDOR.*
- RF air vents (12 in. x 12 in.) as required. Any air vent(s) and return(s) shall provide for same shielded protections as the rest of the chamber to include but not limited to all Bluetooth frequencies high & low, all WIFI, and cellular frequencies. *Mechanical work/ducting to the chamber can be provided by PSO given requirements and specifications are coordinated in advance by VENDOR.*
- One (1) 3/8" Ø brass ground stud used as a single point ground
- Four (4) dual (2-wire) 30 ampere power filters, 110V, 60 Hz service
- Four (4) 10/100/1000 Base-T Ethernet GigaFoil convertor (CAT6)
- Three (3) LED lights (2- Main Room, 1 – Vestibule)
- Structural members installed at RF ceiling framing members to enable enclosure to be a free-standing unit
- Engineering drawings, Bill of Materials, and Installation drawings shall be furnished
- RF attenuation test performed at completion of the installation of basic RF enclosure. A test will be performed in accordance with MIL-STD-285 and at the frequencies of 1 GHz and 10 GHz and a Test Report issued

Fully enclosed example:



Copper mesh example:



