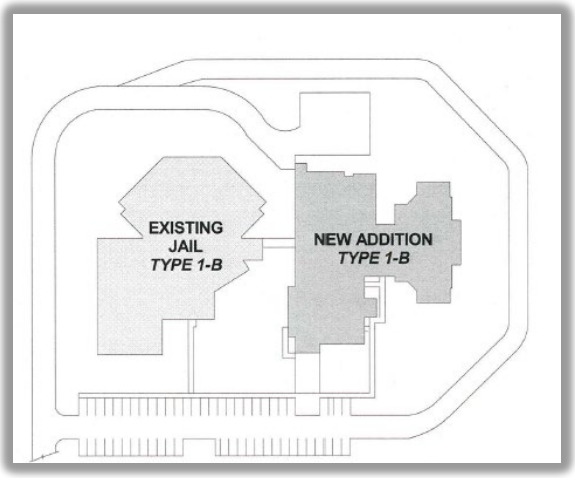
DAS SYSTEMS, INC.

EMERGENCY RESPONDER RADIO COVERAGE SYSTEM PROPOSAL



SAN BENITO COUNTY - NEW JAIL ADDITON

710 Flynn Road | Hollister, CA 95023

March 4th, 2019

Prepared for:
San Benito County Resource Management Agency
(831) 902-2207
2301 Technology Parkway
Hollister, CA 95023

Prepared by:
Dishnet Direct Inc. dba DAS Systems
(408) 540-7864
142 Kennedy Avenue
Campbell, CA 95008

Project Information

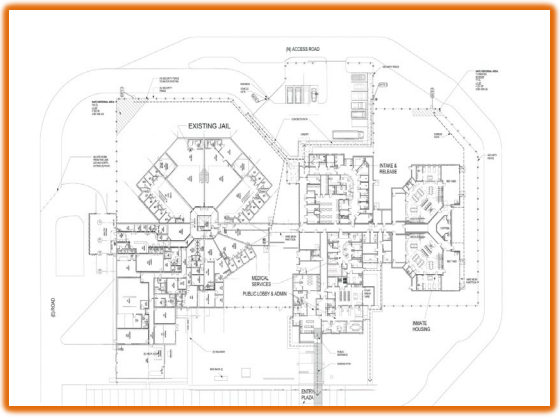
Project Name:
San Benito County – New Jail Addition

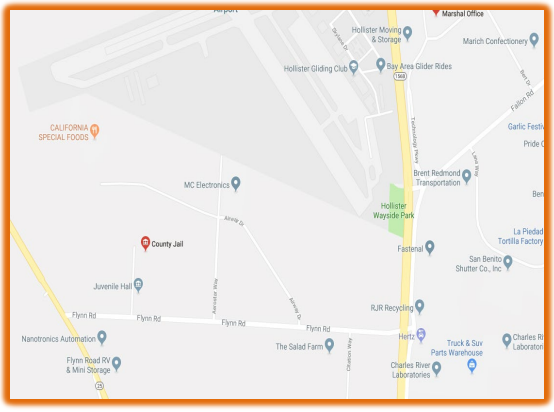
Project Address:
710 Flynn Road
Hollister, CA 95023

Architect:
HMC Architects
2100 Franklin Street, Studio 375
Oakland, CA 94612

First Responder Frequencies:
VHF & UHF

Description:
2 floor Building Addition to the existing County Jail. 1st Floor- 22,400 SF & 2nd Floor- 3,180 SF.





Company Overview

DAS Systems, Inc. is a Design/Build and Engineering Contractor with a focus on Public Safety Distributed Antenna Systems (DAS), also referred to as Emergency Responder Radio Coverage Systems (ERRCS), as well as Neutral Host Wireless Carrier DAS (indoor and outdoor). DAS Systems, Inc. was founded in 2015 by the owners of DishNet Direct, Inc. which was founded in March of 2001, in San Jose, California. All DAS/ERRCS work has been transitioning to DAS Systems, Inc. Just like DishNet Direct, DAS Systems was founded with the belief that great customer support, employee training, annual technical training, and unparalleled build-out of our systems and services are mission critical to both our success and ultimately our client's success. We value engineer each unique system for our clients in every project we design, build, and engineer. Our ownership group believes in over the top customer service, workmanship, project coordination and meeting deadlines. We have been in business for over 15 years and enjoy creating long lasting relationships with our clients.

DAS Systems, Inc. is FCC licensed to design, install, test, commission, and certify First Responder and Cellular DAS. As a trusted source in the construction industry, we ensure that new and existing construction projects are in compliance with current NFPA 72 standards and CA Fire Code Section 510 for DAS/ERRCS to meet all requirements of Authorities Having Jurisdiction (AHJ). We also provide the Maintenance and Annual Re-Certification of all of our DAS Systems for First Responders to ensure that all DAS systems we install continue to meet the AHJ requirements. As codes are updated, we will make sure the existing DAS system meets the new requirements. DAS Systems, Inc. is licensed and bonded, meets and exceeds every client's insurance requirements. In addition, we carry an Errors and Omissions (E&O) policy. DAS Systems, Inc. is located at 142 Kennedy Avenue in Campbell, California. Any questions regarding this bid package can be directed to Lila Schwarzbach at Lila.S@dassystems.com or (408) 540-7864.

ERRCS	Access Control/RFID Systems
Benchmark Radio Frequency Grid Test Reports	Central Off-Air Distributions
ERRCS Design and Engineering	Central Satellite Networks (Dish & DTV)
ERRCS Submittal and Permitting	Data/Telephone Systems
Distributed Antenna Systems (DAS)	Fiber Optic Installation/Termination
BDA/DAS Testing	Fire Alarm Systems
BDA/DAS Commissioning	Head-End Systems
BDA/DAS Monthly Maintenance	Intrusion Systems
BDA/DAS AHJ Required Annual Recertification	IT Services
Neutral Host Carrier DAS	SMATV Systems
Outdoor DAS	Structured Wiring (Data, Coax)
Small Cell DAS	Surveillance Systems

Please note: The following bid is valid for three months from date listed

Scope of Work – Option 1

The following scope of work assumes the two buildings are interconnected (Existing Jail & New Addition) and using one head end system which feeds both buildings. DAS Systems, Inc. will design a fully functional ERRCS, utilizing BDA, coax backbone, in-property antennas, rooftop donor antennas, passive equipment, and required 24-hour battery backup of ERRCS active components. We will design and engineer the system to comply with all AHJ required frequencies. Our system will comply with all local city and county laws. System bid based on plans provided. This proposal was made for **San Benito County Jail. This proposal is only for testing, design, submittal and equipment (Phase 1-4).**

Phase	Scope of Work - Option 1	Price
1	**Benchmark RF Grid Test for 2016 California Fire Code - Section 510.** Benchmark data of all frequencies will be tested per Fire Department requirements to determine any coverage deficiencies throughout the property. The test report will be provided showing downlink levels, building loss, and uplink calculations of each floor, critical areas, rooftop and exterior. An ERRCS will be required if adequate coverage is not found.	$ 5,000.00
If inadequate coverage is found, Steps 2 through 4 will be required.		
2	**Design/Engineering** ERRCS (Emergency Responder Radio Coverage System) Design Package. Level 3 iBwave Designed.	$ 15,000.00
3	**Submittal Package** includes design per all enforced codes and AHJ approval/coordination, permit, submittal, and review. Price includes up to 1 resubmittal.	$ 5,500.00
4	**ERRCS Equipment:** UHF & VHF Bi-Directional Amplifier (BDA), donor antenna, in-building antennas, 24-hour battery back-up system, NEMA4 enclosures, all passives (cable, connectors, splitters, filters). **Conduit not included.**	$ 115,000.00
	Tax 9.25%	$ 10,637.50
	Total (Phase 1-4)	**$ 151,137.50**

142 Kennedy Avenue – Campbell, CA 95008
(408) 540-7864

Coordination and Clarifications

Coordination with other trades:

1. Architect to specify location of 2 hour rated ERRCS room and vertical shaft to donor antenna.
2. Customer to provide space for the ERRCS headend equipment (bi-directional amplifiers and NEMA4 enclosure). The ERRCS room is required to be Two-hour rated per 2016 NFPA 72, Chapters 12 and 24. A 6' wide by 8' tall wall space with 3' frontal clearance is recommended. Room dimensions are to be discussed and approved by DAS Systems.
3. Electrician to land power at locations specified in design. Install a 120V 20amp dedicated lockable circuit with a #2 isolated ground for grounding of equipment inside NEMA4 enclosure in MPOE room.

Exclusions:

1. Gypsum/paint repairs and/or modification if any to be provided by others.
2. Electrical work.
3. Fire Alarm work.
4. Conduit supplies and installation to be provided by others.
5. Two-hour rated survivability vertical chase with a minimum 2 inch EMT conduit from ERRCS headend room to rooftop (donor antenna) to be provided by others.
6. Two-hour rated survivability horizontal chase (feeders) with a minimum 2 inch EMT conduit to be provided by others if required.
7. Core drilling to be done by others.

Clarifications:

1. Bid amount assumes no prevailing wage is required.
2. The proposed system was designed based on current 2016 NFPA standards and utilizes equipment capable of meeting both NFPA/AHJ guidelines. The authorities having jurisdiction may require more or less equipment. The estimate reflected herein will be adjusted accordingly, based upon any design changes by those authorities.
3. 30% Mobilization.
4. DAS Systems provides Annual Testing and Recertification, as required by 2016 California Fire Code. Please provide Lila Schwarzbach's email Lila.s@dassystems.com to the Owner so we can provide a proposal based on the ERRCS installed.

Authorization

Option 1 (1 System for 2 Buildings - Existing & New Addition): $151,137.50

By signing below, the customer agrees to the price and terms of this agreement.

Proposal Prepared For:
Adam Goldstone
Capital Program Manager
(831) 601-4813
agoldstone@cosb.us

Proposal Prepared By:
Lila Schwarzbach
Dishnet Direct Inc. dba DAS Systems
(831) 252-2764
Lila.s@dassystems.com

Accepted By: _____

Print Name: _____

Title: _____

Date: _____

Accepted By: _____

Print Name: _____

Title: _____

Date: _____

Thank you for the opportunity to be of service to you. Please feel free to contact me should you have any questions or concerns.

Respectfully,

Lila Schwarzbach