May 7, 2018

PRESENTATIONS:
FINAL EVALUATION/ SCORING/RANKING

Design Team:
ARCADD, Inc., FL
Thompson Consultants, Inc., MA
Wantman Group, FL
Convergent Technology, MD
Rosenwasser Grossman/RGCE, NY

ARCADD, INC.
Address Committee Questions:

- The Crime Labs attracted ARCADD’s Team, EXPERIENCE AS PRIME

- Why 2011-2012 Statements:
  - Limited Design Opportunities after 2008 in MA
  - Team Switched to Design/ Land Development in 2007
  - Restrictions on Publishing any Financial Info,
  - Multi-Million Dollar Income in Year 2018

ARCADD, INC.
CRITERIA: Meet Rigorous Standards and Accreditation Requirements:

Design Starts:
1- National Association of Medical Examiners (NAME):
   - Inspection and Accreditation
   - Int. Org for 17020 Accreditation Program
2- ANAB ANSI-ASQ National Accreditation Board
   - 17020 Medical Examiner/Coroner Offices
   - 17043 PT Provider Accreditation
3- American Society of Crime Laboratory Directors (ASCLD), 600 Members
   - 17025 Forensic Labs
   - Drug Threat (Unprecedented Current Demands) According to Forensic Experts,
4- Invite NAME, ANAB and ASCLD to Review, Monitor and Approve Process During Design and Construction
ARCADD, INC.
- Areas of Accreditation (but not limited to):

- Anthropology
- Footwear and Tire
- Friction Ridge (Finger Printing, etc.)
- Geological Material
- Gunshot Residue
- Material (Trace)
- Medicolegal Death Investigation
- Odontology (Dental Record)
- Seized Drugs
- Toxicology
- Wildlife Forensics

- Fire Debris and Explosives
- Bloodstain Pattern Analysis
- Biology
- Crime Scene Investigation
- Digital Evidence
- Disaster Victim Identification
- Document Examination
- Fire Arms and Tool Marks
- Fire Debris and Explosives
- Video Imaging
- Geological Material
RFP No. S2115731P1: CONSULTANT SERVICES FOR BROWARD COUNTY’S MEDICAL EXAMINER’S AND BROWARD COUNTY SHERIFF’S OFFICE CRIME LABORATORY COMBINED FACILITY

TEAM ORGANIZATION FOR TIMELY RESPONSE

BROWARD COUNTY BOARD OF COMMISSIONERS AND DESIGNEES

ARCADD, Inc.
Hisham N. Ashkouri, PhD.
Crime Lab Expertise
State of Florida # AR97738
Tim Stone, RA
Police Dept. Expertise

Critical Requests By County Medical Examiner and Crime Lab Staff

Audiovisual, Communication, Security, Acoustic and Technology
Convergent Technologies Design Group
Robert Tryson, Principal

Civil Engineering, Topographic and Environmental Services Title I and II, HAZMAT Services
WANTMAN GROUP
Brian LaMotte, PE

Sustainable/ Green Design/ Renewable Energy LEED Consultant, and security
Thompson Consultants, Inc.
Sean Brice, PE, LEED AP, Principal, Mechanical 40419
Keith Whited, PE, LEED AP, Mech. Scott Guinan, Plumbing and Fire Protection and Security
Jason V. D’Antona, PE, Electrical

Structural Engineering
Rosenwasser Grossman/RGCE
Sam Roth, Director Business Dev’t

Landscape Architects (Part of ARCADD, Inc. Team presented above)
Christine Scypinski, Senior Landscape Architect, LEED AP, RLA 1330

Interior Design FF and E (Part of ARCADD, Inc. Team presented above)
Hisham Ashkouri, LEED AP

ARCADD, INC.
- Cost Control Methods:

- Bring Project Under Budget and On Time
- **Accuracy** of Estimating, Within 2% on Prior Projects Since 1989
- Involve Manufacturers in Preparing Estimates
- Value Engineering at Multi-Project Intervals Prior to Bidding
- Refined Scope Adjustment Based on Costs
- Independent Project Manager also (HNA is a Certified PM)
- Managing GC and Subcontractors, Multi Site Meetings Each Week, Response to All RFI’s, Address Any Changes by Owner, and CO’s
- Owner’s Participation During, Before and After Bidding
- Real Time in Cost Management

ARCADD, INC.
Example of Crime Lab Experience: **Being the Prime: Mass State Police Crime Labs:** Space Programming, Schematic Design, Construction Documents, Bidding, Construction Administration and Post Occupancy:

**ARCADD, INC.**
Issues of Concern:

1- Preservation of Evidence/Prevention of Decay: Handling and Treatment of Evidence, Storage, Ventilation, Temperature, Humidity, Natural Light and Removing from and Returning to Storage.

2- DNA Quality Assurance Standards, (FBI), Scientific Working Groups on DNA Analytical Methods (SWGDAM), Local DNA Index Systems, etc.

3- Federal, State and Local Participation: In 2009 Participation 62% State, 29% Local and 8% Federal,

4- Lab and Evidence Security: Security within Building, Between Labs and Building to Outside.

ARCADD, INC.
Security:


Use Glass Block as a Preventive Security Measure while Preserving Taste.

ARCADD, INC.
**Flexibility of Maintenance:**
- Fume Hoods are well Within Reach with Maintenance Space Around them,

- Accessible HVAC/Plumbing and Lighting,

- Ease of Counter and Cabinet Maintenance,

- Restricted Windows and Glass Blocks

**ARCCADD, INC.**
Project Engineering

- Current TCI State of the art engineering practices
- Energy efficient treatment of outside air prior to introduction of lab space
- Systems that are suitable for both Lab and Non-Lab spaces
- Classified Clean and Bio-Safety spaces
- Power considerations-50% Mechanical
- Diverse Engineering- Over Sea’s
Public Health Facilities

Major Qualifications
- MGH Warren Morgue and Autopsy
- NWH Morgue and Autopsy
- Mount Auburn Morgue and Autopsy
- Bio-Safety Level 2 and 3 Multiple Institutions
- ISO Certified Manufacturing, Compounding, Research space
- High Security Spaces
Design Methodology/
1- Space Analysis Work Sheets:
-Sit Down with Lab Directors, Staff and Engineers,
-Equipment Layouts
-Hands On Approach to Design Floor Plans
Approved and signed by Lab Directors/Managers
-Complete Space Program Sheets with Equipment, Counters, Fume Hoods, DNA/Other Forensic Equipment, HVAC, Flooring, Ceiling, Lighting.

ARCADD, INC.
Development and Completion of Comprehensive Space Program:
- MASS Crime Lab Approach: Hands-On Design Approach in the Presence of Lab Staff and Directors

- Listing Functional Priorities, Lab Equipment Requirements, Work Temperatures, Humidity, HVAC/Plumbing Requirements, Lighting, Air Changes, Presence of Fume Hoods,

- Completed MASS LAB PROGRAM: Alcohol Testing Labs, Ballistics Labs, Photo and Finger Printing Labs, with Automated Finger Printing Identification System (AFIS), Bomb and Arson Labs, Chemistry Labs, Criminalistics Labs, Drug Labs, Evidence Storage including Cool Rooms, Serology (Exam of Blood Serum), Toxicology, Library and Research, Lecture A/V Theaters, Conference and Meeting Rooms, and Administration.

ARCADD, INC.
2- Develop Space Program Sheets into a Schematic Building Layouts for the entire floors. These layouts again are to be drawn in a hands-on method around the table with Lab Staff and Directors Present requesting their input and approval at the end.

3- The implementation of **Approved Construction Documents** including Drawings, Specifications, FF and E, Contract for Selections of Furnishings and Equipment, and the Preparation of Bid Packages and Public Procurement of Contractors and Sub Contractors.

- **LEED Green Specifications** to be implemented in Broward County Medical Examiner/ Crime Lab Project

- **Approved Construction Documents, Drawings and Specifications, Bid Packages, FF and E:**

  ARCADD, INC.
BUILDING EXTERIOR ENVELOPE
Building envelope to provide for energy efficiency, solar power generation, exterior and interior environmental comfort. Reduce heat radiation and heat absorption.

MECHANICAL/HVAC, PLUMBING
Staff comfort, costs and environmental impacts. Site pollution control, sewage control, and storm water collection.

ELECTRICAL
Efficient electrical systems offer a reduction in operating costs, power generation alternatives.
SITE DESIGN
Design site work, conserve water and energy, conserve vegetation, site material, and provide for shaded parking.

BUILDING DESIGN
Measure – Report the building’s environmental performance.

MATERIAL RECYCLING
Recycling program for complex operations, guest, and private areas.

FF&E
Select fixtures and furnishings that have neutral or zero carbon foot print

LIGHTING
Use fluorescent lighting. Also, use occupancy sensors for public areas and back of house areas that are infrequently used. Use timers on exterior site lighting to turn off during daylight hours.

PARKING
Provide preferred parking spaces for hybrid cars and carpools. Follow LEED Commissioning
Broward County's Medical Examiner's and Broward Sheriff's Office Crime Laboratory Combined Facility

Contracts for Space Planning to be Followed by Contract for Design and Construction
GREEN CONCEPT
Design Excellence, Freedom of Individual Expressions

Townhouses with semi-public spaces, balconies for ocean view, geothermal for energy efficiency solar panels and zero sum energy use through DC Power Generators.
North Washington Blvd. development
Sarasota, Florida
THANK YOU