

DIVISION 27/28/33 (OSP)

Design/Build Professionals

Telecommunications, physical security and outside plant infrastructure for systems that don't get a second chance.

Our team combines experienced RCDDs, cleared personnel and CTS-D systems design engineers. With decades of combined experience, we design and deliver mission-critical technology infrastructure for federal agencies and large organizations.

SET-ASIDE

SMALL BUSINESS

CERT

BICSI RCDD

CTS-D

STAFF

CLEARED PERSONNEL

SAFETY

EMR .61

HQ

WHEATLAND, CA



FIG/01 – INFRASTRUCTURE FOR THE MISSIONS THAT DON'T GET A SECOND CHANCE

USAF

CAGE 66KU6	UEI SKTFZM6M5T67	SET-ASIDE Small Business	DISCIPLINES CSI Div 27 / 28 / 33
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[01 / LINE CARD]

Service Capabilities.

Five disciplines, one contractor. Each capability below is engineered, deployed, and commissioned by Walker personnel — designed, installed, and documented to the standards federal buyers require.

Telecommunications

- BICSI Registered Communications Distribution Designer (RCDD) services
- Structured cabling · Wi-Fi deployment
- Broadband fiber & wireless solutions
- ISP & OSP copper and fiber optic installation · backhaul & FTTX
- Telco room build-out · passive optical networking
- Mission-critical UPS, generator & HVAC

Physical Security

- Design & engineering · operations & maintenance
- Access control · intrusion detection · biometrics
- Video management & analysis
- Cybersecurity · compliance — FICAM, FIPS, NIST, DoD
- Perimeter detection
- Point of entry / vehicle barriers and gates

Audio / Video

- Design & integration · operations & maintenance
- Conference centers & breakout rooms
- Command & control (C5ISR)
- Network ops center video walls · sound masking
- Secure video teleconferencing (VTC)
- Enterprise video teleconferencing (VTC)

Data Center / Network Solutions

- Intelligent network designs and deployment
- Automated high-performance storage
- Virtualized server, desktop, storage and transport
- Converged & hyper-converged systems
- Data protection — firewalls, crypto, zero-trust, data integrity & recovery
- Hardware installation & configuration for turn-key operations

Program / Project Management

- PMI-certified Project Management Professionals
- Program & project management
- Earned Value Management (EVM)
- Capital Planning & Investment Control (CPIC)
- CIO advisory services · clearance personnel

Certifications & Advantages

- **Small Business Enterprise** — direct-award eligible
- **TS/SCI-cleared** field and engineering personnel
- **BICSI RCDD & CTS-D** stamped designs
- **EMR .61** safety rating — industry average is .90
- **NECA / IBEW** signatory workforce

[02 / CONTRACTING]

Direct Award Process.

Qualified federal small business enterprises can be awarded sole-source contracts for federal & civilian agencies. The sequence below moves a requirement from program office to executed contract.

01	AGENCY PROGRAM MANAGER	Establishes the requirement; prepares SOW & procurement request; identifies a qualified firm through market research.
02	BUDGET OFFICER	Authorizes funding.
03	CONTRACTING OFFICER	Identifies the qualified firm as the most capable; offers the requirement to the SBA on behalf of the firm.
04	SBA	Accepts the requirement on behalf of the qualified firm; authorizes the agency to conduct negotiations.
05	CONTRACTING OFFICER	Issues the RFP to the qualified firm.
06	QUALIFIED FIRM	Submits technical and cost proposal to the contracting officer in response to the RFP.
07	CONTRACTING OFFICER	Performs technical and price analysis.
08	QUALIFIED FIRM	Negotiates final price and deliverables with the contracting officer.
09	CONTRACT AWARD	Contracting officer assembles the contract and forwards to SBA; agency, SBA, and qualified firm execute the contract.

GENERAL

The purpose of small business set-asides is to award certain acquisitions exclusively to small business concerns. A "set-aside for small business" is the limiting of an acquisition exclusively for participation by small business concerns.

PAST PERFORMANCE

Past performance information is one indicator of an offeror's ability to perform the contract successfully. The solicitation provides offerors an opportunity to identify past or current contracts relevant to the requirement, and to evaluate problems encountered and corrective actions taken.

STATUS

Sole Source Set-Aside — Small Business Enterprise with contract value authority.

// OUR CLIENTS



[03 / CAPABILITIES]

Engineering Capabilities.

Consulting, design, engineering, and execution of IT, AV, and security systems — plus scientific research and engineering services — across a broad range of technical areas for both open and classified programs.

Meeting the special needs of government and industry, the Walker Telecomm team offers extensive expertise across the full project lifecycle. Our leadership has over 30 years of experience designing and executing systems throughout the DoD / Intelligence / Federal marketplace, with in-depth knowledge of Air Force programs.

Our team uses a holistic approach to facility planning, construction, technology, and sustainability for IT, AV, and security projects. We consider the strategic mission and life-cycle requirements of a facility and use a hierarchical structure to create a design for standard interoperability. Emerging technologies place varying demands on power, HVAC, pathways, personnel placement and more. Walker Telecomm delivers best life-cycle value with agile, rapidly deployable, and scalable design-build packages that meet ever-changing IT and operational requirements.

Our capabilities encompass design, engineering, installation, integration, testing, and documentation of sophisticated electronic systems and networks for complete end-to-end solutions, as well as modification of existing systems to meet expanding requirements. Our deep domain knowledge of the data center-to-desktop ecosystem — and technical experience improving efficiency within the DoD/Intel space — makes us an ideal partner to deliver full operational capability supporting concurrent missions for independent customers at different classification levels.

Walker Telecomm is proud to be the lead IT / AV / data analytics systems engineering team for the USAF 480th ISR Wing. For the Wing's new DCGS-2 Building 23265 at Beale AFB, our team spent over three years in requirements gathering, design, lab testing, and proof-of-concept trials before any equipment was procured. The Beale design — and the lessons learned from its construction and operation — have already paid dividends back to the Air Force, and it is expected to serve as the Wing's model for future upgrades at its other DCGS sites.

On Building 23265 we implemented a standards-based, TIA-942-compliant data center architecture that accommodates future growth without disruption or compromise to ongoing services — addressing power, cooling, racks, network infrastructure, optical cabling, and data transport/switching. At the operational core is a Data Center Infrastructure Management (DCIM) platform providing automated management of all data center assets, sustainment processes, and MACs.

The data network infrastructure implemented at DCGS-2 supports:

- Multiple enclaves (including NIPR, SIPR & JWICS) with agile network integration / separation framework
- Enterprise encryption and cross-domain solution architecture
- Scalable speeds up to 400GB using end-to-end fiber network architecture
- Standardized virtual infrastructure provided as a service (IaaS)
- Big data storage, transport and processing
- AI-capable infrastructure — ready for MLS platforms and AI/ML computing

Expertise & Resources.

Our mission is to provide a convergence of people, technology and facilities for the Enterprise so it can **exceed** its mission requirements.

// MISSION STATEMENT - WALKER TELECOMM, INC

Expertise

- TIA-942 data center design
- Data center & facility fiber optic infrastructure
- Data center power and cooling
- Spine-leaf network architecture
- Virtualized high-performance computing
- Data Center Infrastructure Management (DCIM)
- AV systems and data walls
- Network LED lighting
- Construction surveillance
- Security and access control

Resources

Walker Telecomm has provided, and continues to provide, personnel cleared to the **TS/SCI level** in support of the USAF for C4I technology installations. This work includes both ground-up design-build efforts on new facilities and technology refreshment of existing facilities, in both CONUS and OCONUS locations. This experience assures our partners that Walker Telecomm has the expertise to deliver and support qualified personnel and technical services on mission-critical programs.

Walker Telecomm's directly related past performance with the AF DCGS program puts us in a unique position to deliver cutting-edge technical solutions for state-of-the-art mission control facilities.

Secure AV integration

Walker Telecomm provides detailed designs, equipment specifications, equipment layout, network connectivity, integration, training and maintenance for operations and non-operations AV systems — active equipment, flat-screen monitors, projectors, screens, signage systems, local PC connection provisions, CATV fiber and all associated cabling, patch panels, floor boxes, conduit runs, fiber and connectors. Installation and programming includes integration into head-end security and third-party credentialing systems, in strict accordance with all security caveats including **ICD-705** and site security requirements, approved by accrediting officials prior to installation and integration.

Relevant Past Performance.

From Air Force bases to naval test ranges — documented delivery on mission-critical federal programs.

UNITED STATES AIR FORCE — AIR COMBAT COMMAND

Beale AFB — DCGS-2 Design Build

PRIME W91238-15-C-0020 WALSH SUB 215133S07 VALUE \$18.4M FFP POP 06/2016 - 02/2020

Walker Telecomm played a significant role in this approx. 83,000-sq-ft, two-story design-build project, managing two contracts with two separate prime contractors. Contracted by Puyenpa Services, LLC, Walker aided in the design and installation of AV systems and provided audio-visual infrastructure, equipment, and programming for both operational (command and control) and non-operational systems (conference rooms) — installing miles of cabling, terminations, testing, labeling and reporting for copper and fiber cable, video walls, Crestron switching, and console work.

A second award covered design services, labor, material, equipment, supervision, and management for the communications infrastructure: copper and fiber backbone cabling, horizontal fiber and copper station cabling, and telephone room build-outs inclusive of all fiber tray, racks, patch panels, patch cords, and equipment grounding.

UNITED STATES NAVY — NAVAL AIR WARFARE CENTER WEAPONS DIVISION

China Lake Range — Range Control Complex

PRIME FA8240-15-R-7218 JT4 SUB 700020 VALUE \$70M FFP POP 06/2021 - ONGOING

As part of the 2019 Ridgecrest earthquake recovery, MILCON P1911 consolidated range control into a replacement Range Control Center of nominally 45,760 sq ft — five test bays, a customer data room, two major server rooms, and multiple real-time operations support rooms — built to ICD-705, enabling a multiple independent levels of security (MILS) environment aligned with the DoD Joint SAP Implementation Guide (JSIG). Walker Telecomm performed as subcontractor to prime JT4, LLC: design-build of CSI Divisions 27 Communications & 28 Security across design and installation/delivery phases.

Deliverables: Phase I (Design) — project management, requirements analysis, preliminary design, critical design review. Phase II (Build) — build to baseline; development, integration, installation and test; information assurance products; training.

UNITED STATES AIR FORCE — UTAH TEST AND TRAINING RANGE

Hill AFB — Consolidated Mission Control Center

PRIME FA8240-15-R-7218 JT4 SUB 700020 VALUE \$5.8M FFP POP 01/2020 - ONGOING

A six-phase MILCON delivering a state-of-the-art mission control facility for the UTTR at Hill AFB, dramatically improving operational capability and flexibility. Walker provided design-build services for mission systems, video routing, telemetry, video processing, recording, network storage, video walls, displays, workstation consoles, and physical security systems. **Deliverables:** engineering, approved plans, in-room rack cabinet and workstation console installations, roughed-in communications and network cabling, CFE equipment installation, termination and connection, and successful completion of component-level and acceptance tests.

Project 1 — DCGS-2 Facility, Building 23265.

Beale Air Force Base, California · USAF 480th ISR Wing

CUSTOMER	PERIOD OF PERFORMANCE	CONTRACT VALUE	CONTRACT TYPE
USAF 480th ISR Wing	July 2016 – Present	\$9.8M — Design/Build	Time & Materials

Project background

Air Force Distributed Common Ground System (AF DCGS) is the Air Force network for processing, exploitation, and dissemination of ISR over C4I, mission systems and weapon systems. Naval Air Warfare Center Aircraft Division (NAWC-AD) Special Communications Missions Solutions (SCMS) was commissioned and funded to execute a variety of communications & AV systems fit-outs of AF DCGS sites worldwide. SCMS' goal is to establish highly secure, resilient networks for DoD-wide warfighters. Walker Telecomm is under contract to execute the design, engineering, installation, configuration and activation of these state-of-the-art secure DoD networks.

Project overview

Under a design/build contract, Walker Telecomm provided engineering and support for implementation of a TIA-942-compliant architecture for the Building 23265 Data Center at Beale AFB, including the interconnectivity design for all IP and AV systems from the Point of Presence (POP) to the end user at the desktop. Infrastructure was installed to support five different enclaves (including NIPR, SIPR & JWICS), and a COTS-based, TIA-942-compliant leaf-spine switching solution and VDI solution was implemented for three C4I enclaves serving over 300 seats throughout the building — encompassing non-secure, open storage, SCIF and SAP spaces.



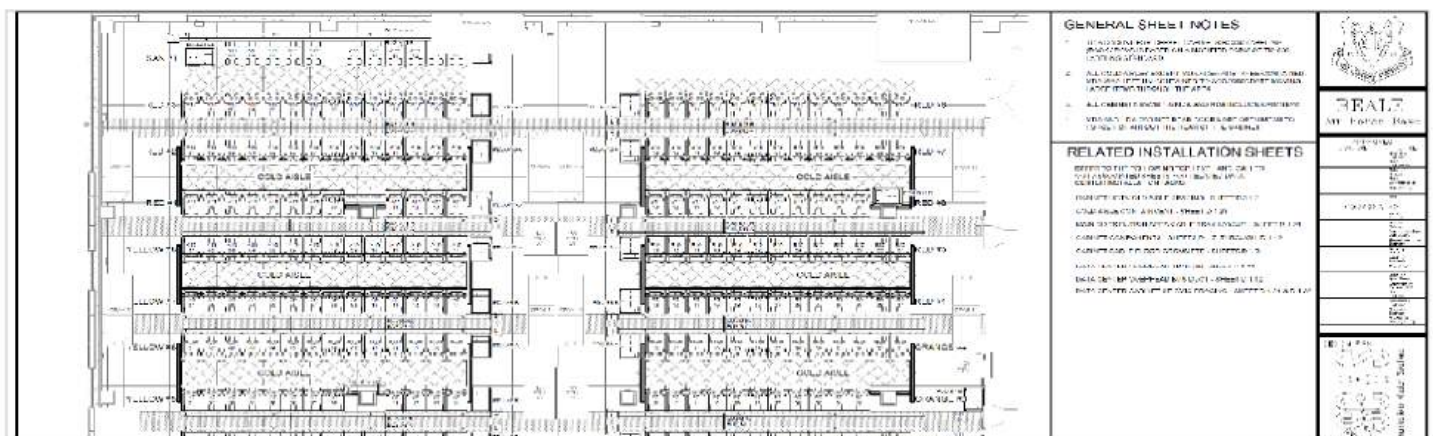
FIG/02 — DCGS + CMCC SITE DESIGN, BEALE AFB

SITE PLAN

Program Management, Design, Engineering & Execution.

IP and AV fit-out services delivered for DCGS-2 Building 23265:

- Holistic, all-encompassing engineering design approach focused on the end user's requirements, not the technology
- Surveyed existing practices in consultation with the end user to develop a fully vetted requirements matrix
- Identified Best-of-Breed (BOB) solutions for the building network support infrastructure — fiber, cooling, racks, power distribution, cable management — including pilot tests, demonstrations, manufacturing facility visits, and live “bakeoffs” of competing products
- Engineered and installed to Seismic Zone 4 standards
- Engineered the physical topology of the network infrastructure, including installation and testing of all multimode and single-mode fiber for five network enclaves throughout the building and data center
- Engineered a COTS-based, TIA-942-compliant data center fiber and switching architecture — 1G and 10G to the desktop with multiple 40G links between each leaf and spine, creating Day-1 capacity of over 320G of non-blocking east-west throughput, with growth in excess of 3T without a forklift upgrade or service interruption
- Developed and actively maintained a phased deployment and integration plan to minimize downtime and deconflict operations
- Vetted virtualization and MLS solutions in our lab, providing updates and alternative COAs to the customer for final selection
- Engineered, configured, deployed and trained on a high-performance VDI solution for three C4I enclaves — VMware Horizon View with instant-clone and AppStack technology, greatly reducing sustainment and deployment effort
- Developed a desk/workstation design inventory matrix and deployed, patched, labeled and documented all VTCs, VoIP phones, printers, scanners, thin clients and zero clients on NIPR, SIPR and JWICS enclaves
- Overall engineering of outside plant cabling and the final TIA-942 architecture — interconnectivity design for all IP systems from the POP through TAC lanes and the MDA/HDA/ZDA to the end user
- Designed, procured and installed data center overhead busway, PDUs and cabinets
- Worked with the local base ISSO/ISSM office and each enclave's security hierarchy to ensure compliance with system-wide cybersecurity requirements
- Developed Bills of Materials (BOM) and supported equipment and material procurements
- Developed training materials and SOPs for moves, adds and changes going forward



FIG/03 - DATA CENTER CABINET LAYOUT, PLAN VIEW

UNCLASSIFIED // FOUO

AV Systems & SOW-Aligned Highlights.

Walker engineered, designed, integrated and installed — including testing and turnover — the AV systems in the building and all supporting components, including the AV interface fiber architecture and cabling required for transmission of AV signals site-wide. These systems include state-of-the-art video walls for the building auditorium and the operations floor. We also provided and maintained updated as-built drawings and a dynamic inventory for all installed systems throughout the building.

The ops floor video wall presented a particular challenge: the earthquake resiliency required of the installation was made difficult by the ceiling/roof design and SCIF-rated walls that could not be penetrated. We conceived, designed, and installed a floor-mounted ceiling truss structure that supports the video wall in place and allows it to be lowered for service as needed.

For the auditorium, we developed a design incorporating a demountable beauty wall surrounding the 5x5 video panels, mounted on a seismic-rated truss system secured to the hard deck floor. The wall creates usable space behind the video wall, locating the AV network infrastructure and components behind it for better visuals and ease of maintenance — supporting distributed mission planning & collaboration, pre-mission briefings, mission crew debrief, training, and contingency operations.

Additional work included installation of demountable walls and furniture for new office and operations spaces throughout the building; engineering, integration, configuration, testing and end-user/sustainment training for three discrete network enclaves for switch and compute; and ongoing sustainment support for all systems and all enclaves.



FIG/04 — AUDITORIUM VIDEO WALL, DESIGN RENDERING

5x5 ARRAY / SEISMIC TRUSS

SOW-ALIGNED CAPABILITY HIGHLIGHTS

This project showcases our past performance in providing the complete package of services for a DoD client with demanding mission and security requirements: requirements analysis, market research, analysis of alternatives, industry best practices, quality assurance, standards compliance, systems engineering and design, procurement, installation, and testing of data center and network infrastructure, power systems, computer processing, sensor data and electronic systems, AV, VTC, virtual desktops, and VoIP. Utilizing a requirements-driven approach — concentrating on end-user requirements rather than vendor product offerings — we improved the client's operational capability and efficiency from concept to sustainment.

Project 2 — Common Mission Control Center (CMCC).

Beale Air Force Base, California · USAF 427 Reconnaissance Squadron

CUSTOMER	PERIOD OF PERFORMANCE	CONTRACT VALUE	CONTRACT TYPE
USAF 427 Recon Squadron	January 2018 – Present	\$25M — Design/Build	Time & Materials

Project background

The Naval Air Warfare Center Aircraft Division (NAWC-AD) Special Communications Missions Solutions (SCMS) was commissioned and funded to execute a variety of communications & AV systems fit-outs for the Air Force worldwide. SCMS' goal is to establish highly secure, resilient networks for DoD-wide warfighters. Walker Telecomm is under contract to execute the design, engineering, installation, configuration and activation of these state-of-the-art secure DoD networks.

Project overview

Under a design/build contract, Walker Telecomm performed the IP and AV fit-out for the USAF Common Mission Control Center (CMCC) at Beale Air Force Base. CMCC presents integrated and fused multi-domain and intelligence, surveillance and reconnaissance data to decision makers, using man-on-the-loop, artificial intelligence and machine learning to reduce human task load while executing its mission objective. The CMCC provides products and services more advanced and inclusive than any legacy Theater Air Control System element.

Work at the Beale AFB CMCC facility included engineering, design, IT and AV hardware, installation, configuration, integration, training, documentation, ongoing sustainment and data center management. Infrastructure was installed to support 12+ different enclaves. We implemented a COTS-based, TIA-942-compliant leaf-spine switching solution for the three C4I enclaves throughout the building, encompassing non-secure, open storage, SCIF and SAP spaces.



FIG/05 — OPERATIONS FLOOR FIT-OUT: CONSOLES, DISPLAYS & ENCLAVE CABLING

BEALE AFB / CMCC

Program Management, Design, Engineering & Execution.

IP and AV fit-out services delivered for the Beale AFB CMCC:

- Holistic, all-encompassing engineering design approach focused on the end user's requirements, not the technology
- Surveyed existing practices in consultation with the end user to develop a fully vetted requirements matrix
- Identified Best-of-Breed (BOB) solutions for the building network support infrastructure — fiber, cooling, racks, power distribution, cable management — including pilot tests, demonstrations, manufacturing facility visits, and live “bakeoffs” of competing products
- Engineered the physical topology, then installed and tested all multimode and single-mode fiber for 12+ enclaves throughout the building and data center
- Engineered a COTS-based, TIA-942-compliant data center fiber and switching architecture — 1G and 10G to the desktop with multiple 40G links between each leaf and spine, creating Day-1 capacity of over 160G of non-blocking east-west throughput, with growth in excess of 1.5T without a forklift upgrade or service interruption
- Engineered and installed to Seismic Zone 4 standards
- Developed and actively maintained a phased deployment and integration plan to minimize downtime and deconflict operations
- Engineered, integrated, configured, tested, and trained end users and sustainment personnel for three discrete network enclaves
- Provided ongoing sustainment support for all systems and all enclaves
- Developed a desk/workstation design inventory matrix and deployed the selected desktop configuration to each workstation — deploying, patching, labeling and documenting all VoIP phones, printers, scanners, and workstations throughout the building
- Overall engineering and support of outside plant cabling for the final TIA-942 architecture — interconnectivity design for all IP systems from the POP through TAC lanes and the MDA/HDA/ZDA to the end user
- Designed, procured and installed data center overhead busway, PDUs and cabinets
- Engineered, designed, integrated and installed the AV systems in the building — including testing, turnover, and the AV interface fiber architecture and cabling required for site-wide AV signal transmission
- Provided detailed designs, equipment specifications, layout, network connectivity, integration, training and maintenance for operations and non-operations AV systems in strict accordance with all security caveats, including ICD-705 and site security requirements

Compliance, Documentation & Turnover.

- Worked with the local base ISSO/ISSM office and each enclave's security and safety guidelines, requirements and hierarchy to ensure compliance with system-wide cybersecurity requirements
- Developed Bills of Materials (BOM) and supported equipment and material procurements
- Developed training materials and SOPs for moves, adds and changes going forward
- Provided and maintained updated as-built drawings and a dynamic inventory for all installed systems throughout the building

SOW-ALIGNED CAPABILITY HIGHLIGHTS

Our work at CMCC Beale validates our past performance with a nearly identical client in providing the complete package of services — engineering, design, installation, systems integration, testing, and documentation required to stand up a fully operational range capability in a new CMCC. Walker Telecomm's flexibility, responsiveness, and the adaptability of our solutions and team affirm that our project approach can be readily tailored to suit new and evolving requirements in very short order.

Let's engineer your *next* system.

// REQUEST FOR CAPABILITIES - QUOTE - CONSULTATION

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