DEPARTMENT OF VETERANS AFFAIRS
HEALTHCARE

HDR Creates Healing Environments for America’s Heroes
DESIGN PHILOSOPHY

PHYSICALLY CAPTURE
a Bold Idea or Concept

EMBODY
a Client’s Vision

EXPRESS
Integrated Design

RETHINK
the Standard Approach

SUPPORT STEWARDSHIP
of Mind, Place and Resources
HDR is a global design firm with more than 8,000 professionals who are inspired by our clients’ work. We balance creative ideas with technical expertise to transform concepts into reality, responding to important cultural, contextual and functional influences.

We have been honored to serve federal agencies for more than 66 years. Many of our professionals have worked as both employees and consultants for our federal clients, so we have a first-hand understanding of the procedures and processes they use in the design of new and renovated facilities. We provide the experience, knowledge, manpower and technology necessary to deliver projects in a timely manner and to the high standards expected by our federal clients.
VAST EXPERIENCE WITH THE DEPARTMENT OF VETERANS AFFAIRS
PROVEN KNOWLEDGE

HDR has successfully served the VA over the past decade with more healthcare design services than any other firm in the country. We provide service at all levels of the VA. More importantly, many of our projects have spanned over a long period of time. HDR’s dedication and unprecedented commitment of service has occurred at all levels of the VA; Central Office, Regional Offices, VISNs and Stations; in all, more than 200 projects and 80 VA Medical Center locations across the country.

The HDR Team has vast knowledge of the VA and its processes, having worked on numerous projects with the VA for the past ten years. We have proven experience in designing innovative, advanced medical facilities throughout the VA system. HDR has worked with the VA in over 28 states and the Caribbean, over 180 task orders, 24 minor projects and 10 major projects.

This commitment to the VA is one of the reasons why HDR has been ranked the Nation’s top healthcare design firm for the past ten consecutive years.
HDR provides innovative solutions that enhance patient & outpatient care, benefits and services to our veterans.

Our team of experts in research, patient care, equipment innovations, and design excellence partner with the very best from the VA. Together, we provide the VA with a state-of-the-art, patient-centered, new healthcare facility that addresses the whole body needs of today’s veterans and those to follow.
Our past work shows our commitment to the VA

HDR and its team leadership are very familiar with the VA. This relationship started in the 1970’s when HDR first began performing healthcare work with the VA and over the next 15 years completed several significant projects such as the new VAMC in Minneapolis. In all, HDR has completed more than 100 design projects spanning more than 30 years. Our design services also extend to Task Order work through IDIQ contracts at the Central Office, VISN and local medical center levels. In all, HDR has completed or has underway more than 180 individual task order assignments using 15 HDR offices and more than 100 HDR personnel.
The HDR Team offers the VA exceptional professional qualifications located throughout each VA Region and the Nation, providing quality services and support in:

» Design & Planning
» Engineering
» Interior Design
» Facilities Condition Assessments
» Facility Master Planning
» Operational & Clinical Planning
» Functional & Space Programming/SEPS
» Medical Equipment Planning
» Urban & Campus Planning
» Wayfinding Planning & Design
» Technology Consulting
» Security Consulting
» Landscape Architecture
» Sustainable Design Consulting
» Design/Build Alternative Delivery
» Product Design
» Commissioning
» Post-Occupancy Evaluation
» Operations & Management
» Service Delivery Planning
» Energy Management
» VA Data Systems & Processes
HEALTHCARE
MASTER PLANNING

The HDR team has completed more than 80 million SF in master planning for 500 healthcare facilities projects in the last five years. Master planning of healthcare facilities is a crucial step in the process of becoming more efficient, understanding the institution’s appropriate place in the market, and in developing a long-term strategy for growth and development. With this insight, the HDR team is able to be more effective with our continued planning.

We provide the VA with a team of professionals who are familiar with the key planning issue of the campus. This group will draw from the clinical provider, healthcare management, and architectural disciplines, each of whom plays a critical role in an integrated design process. We understand the physical healthcare planning issues and can quickly tune into your goals and objectives.
Consolidates a three-division healthcare delivery system into two divisions, to accommodate the current and projected workload and to provide a state-of-the-art, improved care environment while reducing operating expenses and enhancing services.

PROJECT DETAILS

COST: Consolidation Building: $75.8M, Administration Building: $15.2M, Research Office Building: $32.6M

SIZE: Consolidation Building: 198,700 SF
      Administration Building: 53,000 SF
      Research Office Building: 83,000 SF

RESPONSIBILITY: Master Planning, Full A/E Services

COMPONENTS: Ambulatory Care Center, Inpatient & Outpatient Psychiatric Care, Consolidation Building
VA LIVERMORE | STOCKTON & FREMONT, CALIFORNIA

Recently completed S1 Design for the VA Livermore project, Parts A, B, and C: two ambulatory care facilities, 150,000 SF in Stockton and 80,000 SF in Fremont, and a community living center in Stockton.

COST: $230M

SIZE: Part A–150,000 SF, Part B–150,000 SF, Part C–80,000 SF

RESPONSIBILITY: Master Planning, Functional Programming and Design
This project captures two important elements: an Outpatient Clinic, to provide healthcare benefits to Veterans, and a National Cemetery, which will be a significant national shrine for those who will be honoring their loved ones. Together this combination of uses provided a wonderful opportunity to create a place of real significance and honor for our veterans.

COST: $148M

SIZE: 158,000 SF

RESPONSIBILITY: Master Planning, Functional Programming and Design
HDR has designed more than 160 Ambulatory Care Facilities throughout the country. A dozen of these are VA facilities which were recently completed or are currently under design. Our knowledge of the various VA’s Specialty Clinic Programs goes beyond traditional healthcare AE services; HDR has provided SEPS training and Space Planning Criteria updates to the core programs of several of these clinics.

Our national experience allows our design teams access to Evidence Based Design data and clinical planning at a higher level of operational effectiveness for both patient and staff. HDR’s designs of Ambulatory Care Centers strive to combine a sense of well-being with convenience. Natural and sustainable products combined with a natural color palette and diffused light create a calming atmosphere.
The 480-Bed, 600,000 SF full service medical center is the VA's flagship healthcare facility in the Caribbean. The HDR team is providing design/planning services for primary and secondary building system modifications to satisfy seismic code and hazardous material mitigation requirements. These seismic corrections also presented opportunities to reorganize healthcare clinics and administration spaces, improving patient care and planning for future growth. The clinics cover an wide array of services. This is a multi-phase seismic correction and expansion project.

**COST:** $116M

**SIZE:** 270,000 SF (new construction); 220,000 SF (remodel/renovation); 126,000 SF (demolition)

**RESPONSIBILITY:** Medical Campus Master Plan, Program Confirmation, Full A/E Services
HDR has been involved with the development of inpatient bed units throughout the continuum of our practice. We have assisted numerous clients in conceiving and designing the most innovative facilities. Our approach is straightforward, listening to the needs of our clients, bringing our national perspective to bear on the issues discussed, and then developing well-suited solutions. For many patients and their families, staying in a hospital is a stressful circumstance.

Through the incorporation of human aspects and replacement of sterile units, modern facilities are creating a more comfortable facility for patients and families. Flexibility is key when designing inpatient bed units. Facilities must be able to support current medical needs and trends while being able to accommodate future medical practices. Private patient rooms increase patient privacy, decrease infections, create a more comfortable atmosphere for patients and their families, and increase patient safety through the reduction of patient transfers. Healing environments also play an important role in the design process.

**RELATED PROJECTS**

- Hunter Holmes McGuire Richmond VA Medical Center, Richmond, Virginia
- VA Medical Centers, Nationwide Laboratory Assessments
- W.G. Hefner VA Medical Center, Salisbury, North Carolina
- VA Medical Center, Minneapolis, Minnesota
- Replacement Naval Hospital Camp Pendleton, California
- Fort Belvoir Community Hospital, Fort Belvoir, Virginia
- Lackland Ambulatory Care Center, Phase 1, San Antonio, Texas
- USAMRIID Stage 1 Replacement, Ft. Detrick, Maryland
- Walter Reed National Military Medical Center at Bethesda, Bethesda, Maryland
- Fort Bliss Army Medical Campus Administration & Education Building, El Paso, Texas
This facility will allow families of these patients to be an integral part of the rehabilitation and recovery process. The interior environment will have abundant light, natural vegetation and water features as well as a soothing finish pallet to foster a healing environment.

COST: $80M

SQUARE FOOTAGE: 150,000

RESPONSIBILITY: Full A/E Services

COMPONENTS: Coordinated with Adjacent Long Term Spinal Cord Injury Facility, Rehabilitation Facility, Inpatient Bed Units, Mental Health Facility, Outpatient Facility, Parking Structure, New Construction, Renovation, VA Space Planning Guidelines, Sustainable Design (LEED), Building Information Modeling (BIM)
HDR specializes in strategic health care system market-based analytic solutions. HDR has partnered with governmental agencies at all levels, large health care systems, small critical access hospitals, non profit and for profit entities, as well as ambulatory centers and clinics bolstering HDR’s well-rounded expertise in planning.

HDR has recently completed designs for three major hospitals for DoD, including the 1.275 million SF Ft. Belvoir Community Hospital, the 1.132 million SF Ft. Bliss Hospital Replacement, and the 410,000 SF Camp Humphreys Hospital. Ft. Belvoir was designed and constructed in less than 5 years under BRAC, and is the first DoD hospital to be labeled ‘world-class’ by Congress, having fully embraced both sustainability and Evidence Based Design.
The commitment of HDR’s Fort Bliss Army Medical Center design team is to attain and achieve the long-term goal of a World Class Medical Facility in support of our Warriors and their Families. The $1 Billion Medical Center will be a 1,132,460 SF top notch medical facility replacing the current William Beaumont Army Medical Center (WBAMC) in El Paso, Texas. HDR has incorporated state-of-art planning and design ideas including the latest research in Evidence-Based Design (EBD), Sustainability, as well as design innovations promoting family and patient-centered care.

**COST:** $950 million (est.)

**SIZE:** 1,132,460 SF

**RESPONSIBILITY:** Full A/E Services, Interior Design, Master Planning, Healthcare Consulting

**COMPONENTS:** 137-bed nursing tower, helipad, inpatient medical facilities, ancillary departments, emergency care, primary care, specialty care clinics, support spaces and central plant
A KEY COMPONENT OF OUR VA PROJECTS

DESIGN STANDARDS AND PROGRAMMING

HDR is currently commissioned by the Department of Veterans Affairs (VA) to provide nationwide architecture, engineering and consulting professional services in support of Veterans Health Administration (VHA)’s infrastructure: Medical Centers (VAMCs) and Outpatient Clinics (OPCs). A key component of this effort is the update of the Space and Equipment Planning Criteria used in all Hospital / Medical Center and Outpatient Clinic projects. Program Guide (PG) 18-9: Space Planning Criteria features sixty one (61) chapters covering all Clinical, Clinical Support and Support departments. The chapters translate into sixty (60) departments of an Inpatient facility and one (1) Outpatient (OPC /CBOC) department in SEPS. Program Guide (PG) 18-5: Equipment Guide List details all equipment assignments for every room and space in the Functional Areas in all of the chapters in PG-18-9. Program Guide (PG) 18-12 Design Guide provides Guide Plates as well as detailed information for key rooms and spaces primarily for the Clinical Chapters. PG-18-5 and PG-18-9

is implemented in the Space and Equipment Planning System (SEPS) computer software. Beyond the Space and Equipment Planning Criteria, HDR has assisted the VA with the updating of the Mental Health Design Guide and created the new Polytrauma Design Guide. These documents were under a schedule pressure to be finalized to allow the emerging programs to be developed under a common philosophy, one that HDR helped develop.

Project examples include:

» VAMC, Livermore Realignment and Closure, Stockton and Fremont, CA
» VAMC, Rehabilitation Research Building 51, Palo Alto, CA
» VAMC, Community Living Treatment Center (GeroPsych) Building 361, Menlo Park, CA
» VAMC, Mather Field Consolidated Outpatient Surgical Specialty (COSS) Clinic, Sacramento, CA
» San Francisco Department of Veterans Affairs Medical Center Vivarium Replacement & Expansion, San Francisco, CA
The project scope includes the demolition of approximately 6,600 SF of an existing single story portion of B51 and the approximately 8,000 SF single story project to replace it. The new building was designed to be seismically separate and to be suitable to add a second floor at a later time. Program components consist of the relocated Gait & Bio Mechanic Labs, the new Development & Wet labs and finally several support and administrative spaces.

HDR provided programming, full A/E design and construction administration for this project familiarizing ourselves with the Palo Alto VAMC campus, facilities staff and to understand the VA process and communication protocols. The project practiced sustainable design principals and is LEED equivalent.

VAMC, REHABILITATION RESEARCH BUILDING 51
PALO ALTO, CA

COST: $6M
SIZE: 7,925SF
RESPONSIBILITY: Full A/E Services
COMPONENTS: Medical research expansion, adaptive renovation, new construction, VA Space Planning Guide, sustainable design (LEED equivalent)
HDR LEADS EARLY IN THE PROCESS

SPACE PLANNING & PROGRAMMING

SPACE PLANNING CRITERIA

The Space Planning Criteria defines the baseline space requirements for every Clinical, Clinical Support and Support Department in a VA Healthcare inpatient or outpatient facility.

» Work targeted on benchmarking with the latest medical knowledge available and healthcare industry best practices in the United States, while optimizing VA’s patient care program with facility planning, design and management requirements.

» Summarizes current treatment philosophy, services provided, operational procedures and care environment

» Enables the VA to provide a standardized baseline approach to all the healthcare facilities anywhere in the country.

» Developed with participation of VA Healthcare professionals working in various medical specialties including: Dental, Mental and Behavioral Health, Polytrauma, Women Veterans, Diagnostic Imaging, Food and Nutrition, Supply Processing and Distribution (SPD), etc

HDR’s key space and clinical planners have extensive VA healthcare experience, including nursing, and have been involved in Space Planning Criteria and Medical Equipment List updates as well as in Space and Equipment Planning System (SEPS) development, implementation and maintenance since its inception in 2003.
HDR has more than 8,000 professionals and more than 185 locations worldwide. We have completed projects in over 60 countries. We have the capacity to support the VA on any project and accomplish the work in the required time, or to react quickly and efficiently when working within accelerated schedules. HDR has displayed this ability numerous times to the VA and has been known to respond overnight when required.

We have developed the expertise, resources, technical capabilities and tracking systems to ensure timely completion of assignments on schedule and within budget. Our staff is routinely engaged in the planning and/or design of many projects at a given time. As a result, the team has qualified technical staff to use on any particular project. The team also has personnel resources readily available throughout the nation. These staff can be made available to meet peak manpower loading requirements as needed, enabling us to respond flexibly and promptly to project requirements and schedule needs. Our professionals are committed to helping clients manage complex projects and make sound decisions.
HDR has a variety of contract vehicles that can be drawn upon for future project assignments. Our key management staff with the Department of Veterans Affairs has other federal agency experience that can also be beneficial to the VA. We have an excellent record of project delivery and cost control delivered through sound project management practices and procedures. In addition, outstanding compliance with performance schedules reflected by our satisfied clients. Some of these contract vehicles are as listed below.

» East Region CFM – A/E Services
   VA101CFM-P-0150

» West Region CFM – A/E Services
   VA101-CFM-P-0159

» VISN 1 – A/E Services IDIQ
   (New England) VA241-P-1116

» VISN 11 – A/E Services IDIQ
   (IL, IN, MI) VA241-P-1116

» VISN 19 – Energy Services
   (CO, UT, WY, SD, ND) VA241-P-1116

» Central Office CFM – CM Services
   (Nationwide) VA101-13-Q-0054

» West Region – Integrated Planning IDIQ VA-1011-2-R0011

» Central Region – Integrated Planning IDIQ VA-1011-2-R0011
WE CHAMPION MEANINGFUL SOLUTIONS THAT ENSURE PROJECTS ARE SUSTAINABLE
Sustainable design strategies in the healthcare environment enhance tranquility, improve indoor air quality, and naturally illuminate interior spaces. These fundamental elements of sustainable design improve the mental, physical and emotional well-being of hospital staff, patients and visitors.

HDR has significant experience planning and designing sustainable healthcare environments. Our extensive portfolio of LEED Registered or Certified healthcare facilities totals more than 34 million square feet.

HDR is also a member of Practice Greenhealth and is committed to moving sustainability forward as a key component of healthcare design.

Our extensive experience in providing support for the military includes diverse project capability. We have worked on a wide variety of military design and engineering projects, from hundreds of task orders on military contracts to projects large and complex in scope.

Tailored solutions make VA projects the best they can be.
Consistently ranked the No. 1 healthcare design firm, HDR designs healthcare facilities that provide world-class healing environments for the private sector, as well as for the U.S. military. The Fort Belvoir Community Hospital in Virginia is the first military hospital in the United States to combine evidence-based design principles with stringent green building standards. It is the largest LEED Gold-certified hospital in the U.S.
Evidence-based design (EBD) is not just about creating facilities that are sophisticated, beautiful or technologically superior; it is also about planning and designing a facility that results in an environment that meets your goals and objectives, including principles that help the patients recover in less time. It is about translating current research results into usable design concepts which contribute to:

» Decreased lengths of stay.
» Reduced infection rates.
» Reduced patient falls.
» Improved patient and staff satisfaction.
» Overall improvement in efficient delivery of patient care and clinical outcomes.

HDR was at the forefront of understanding and implementing Evidence-based Design before our clients began requesting EBD. HDR designs facilities that exceed patient and staff expectations by incorporating the latest research, leading edge technologies and planning for patients, staff and families. Working closely with our client’s interdisciplinary team and our own experts, we start by defining the client’s vision, mission, goals and values.

Incorporating principles of EBD into your project. Early in the project, we develop an Evidence-based Design plan. Working with a core team of EBD-supporters from within your organization, we lead the group in determining which EBD strategies fit within your culture and meet your strategic objectives. Using the latest research results from current literature, the team defines the specific EBD strategies to used.
GLOBAL MARKETS & SERVICES

ARCHITECTURE
» Architectural Design
» Commissioning and Energy Services
» Engineering
» Interiors and Wayfinding
» Master Planning
» Programming
» Project Management
» RFP Development
» Security Assessments
» Site Design
» Specialized Building Systems
» Sustainable Design
» Technology Solutions
» Telecommunications Consulting

CONSTRUCTION
» Commissioning
» Construction Management
» Design-Build Delivery
» Operations and Maintenance
» Project and Program Management
» Staff Augmentation
» Technical Design Support
» Value Engineering

ENVIRONMENTAL
» Archeology
» Conservation
» Compliance
» Cultural Resources
» Marine Species Monitoring
» Natural Resources
» NEPA
» Noise and Acoustics
» Pollution Prevention
» Remediation
» UXO and Range Services
» Water Quality
ENGINEERING » Anti-terrorism and Force Protection
» Asset Management
» Civil Works
» Coastal and Maritime
» Fisheries and Aquatic Resources
» Hydraulic Modeling
» Program Management
» Transportation
» Water, Wastewater and Reuse

ENERGY » Carbon Management
» Climate Variability Impact Analysis
» Efficiency Management and Results Reporting
» Energy Audits
» Owners Engineer
» Power Generation and Delivery
» Renewable Energy
» Retrofit System Design

PLANNING » Airfield and Facilities Utilization
» Community Involvement
» Comprehensive Master Planning
» Decision Economics
» Military Installation
» Programming
» Regional Shore Infrastructure Development
» Sustainable Return on Investment (SROI)

ASSET MANAGEMENT » Sustainable Infrastructure Assessments
» Real Property Inventory Validations
» Energy and water conservation ASHRAE audits
» High Performance Sustainable Building Checklists
» Condition-Based Maintenance Management assessments
» SRM project / program validations
» Total ownership cost scenario modeling
» Infrastructure Capacity Assessments
» DD Form 1391 preparation
RANKINGS AND AWARDS

BUILDING DESIGN & CONSTRUCTION, “GIANTS 300” 2012
- No. 1 – Healthcare
- No. 1 – Science & Technology
- No. 1 – Top 25 Military Sector Architecture
- No. 2 – Top A/E Firms
- No. 2 – Top BIM Design Firms
- No. 2 – Project Management
- No. 2 – Government Buildings
- No. 3 – Top Data Center Design Firms
- No. 4 – Top Green Building Design Firms
- No. 4 – Design Firms with Highest # of LEED APs
- No. 6 – Top Government Design Firms

MODERN HEALTHCARE, “CONSTRUCTION & DESIGN SURVEY” 2013
- No. 1 – Architecture Firm in Healthcare Design

ENGINEERING NEWS–RECORD, “TOP 500 FIRMS,” 2012
- No. 11 – Top 500 Design Firms
- No. 5 – Top 100 Green Design Firms
- No. 22 – Top 150 Global Firms
ARCHITECTURAL RECORD, “TOP 250 FIRMS,” 2012
No. 5 – Top 250 Design Firms

WORLD ARCHITECTURE 100 SURVEY, 2012
No. 2 – Top North American Design Firms
No. 10 – Top 100 Global Design Firms

INTERIOR DESIGN MAGAZINE, 2013
No. 8 – Healthcare
No. 9 – Government

AMERICAN COUNCIL OF ENGINEERING COMPANIES, 2012
27 Awards for Engineering Excellence

AMERICAN INSTITUTE OF ARCHITECTS, 2005–2012
27 Awards for Design Excellence
We practice increased use of sustainable materials and reduction of material use.