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The Architecture for Health Showcase provides several platforms for highlighting the latest health care facility design and construction projects. The Architecture for Health Showcase Gallery is exhibited at the International Summit & Exhibition on Health Facility Planning, Design & Construction (PDC Summit) and the Annual Conference and Technical Exhibition of the American Society for Healthcare Engineering (ASHE). The Architecture for Health Showcase Compendium is the printed element of the program and is shared with attendees at both conferences.

Architecture for Health Online can be viewed at archshowcase.org. Visit this online gallery to learn more about the projects and firms featured in the Compendium.

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Since 1993, the American Society for Healthcare Engineering of the American Hospital Association has recognized design and construction initiatives across the United States through the Vista Awards program.

The Vista Awards recognize teams that have worked together to develop and maintain safe quality health care environments, demonstrate effective and efficient communication, and rely on data-based decision-making processes.

The Vista Awards are granted based on team collaboration and focus on the project’s key stakeholders—individuals who have been involved from inception to completion as well as during any post-occupancy evaluations.

For more information about the Vista Award program, visit ashe.org/vista.

New Construction

Constructing a new facility, essentially from the ground up. The new facility may be connected to an existing facility, but the building must have its own identity and be a new space.

Winner:

HKS
Mercy Hospital Joplin
Joplin, Missouri

Page 25
Renovation

Altering existing conditions or adding new space to existing structures. The original building envelope remains essentially intact.

Winner:

**Shawnee Mission Health, ACI Boland, Henderson Engineers, JE Dunn**

CREATION Health
Operational Renovation
Shawnee Mission, Kansas

Page 39

Infrastructure

Modifying or replacing major portions of the utility generation, distribution, or control systems. These changes involve significant project planning.

Winner:

**HDR**

Nebraska Medicine
University Towers
Electrical Upgrades Project
Omaha, Nebraska

Page 23
Contents

Project Listings (Alphabetical by Firm)

6 Ballinger | Penn Medicine Chester County Hospital, Surgical Platform + Bed Tower | West Chester, Pennsylvania
7 Bates Architects | Mercy Hospital Northwest Arkansas | Rogers, Arkansas
8 Blair + Mui Dowd Architects | Monroe Carell Jr. Children’s Hospital at Vanderbilt Vertical Expansion | Nashville, Tennessee
9 Blair + Mui Dowd Architects | Vanderbilt Medical Center Plaza | Nashville, Tennessee
10 Boulder Associates Architects | Centura Littleton Adventist Hospital Redevelopment | Littleton, Colorado
11 CannonDesign | Centre hospitalier de l’Université de Montréal | Montreal, Quebec, Canada
12 Champlin Architecture & FKP | Cannon | Dayton Children’s Hospital New Patient Tower | Dayton, Ohio
13 Clark/Kjos Architects, LLC | St. Charles Family Care Bend South Clinic | Bend, Oregon
14 Devenney Group Ltd., Architects | Sunrise Hospital New Patient Tower and Emergency Department | Las Vegas, Nevada
15 DLR Group | Westlake Reed Leskosky | Cleveland Clinic Avon Bedtower Post Occupancy | Avon, Ohio
16 E4H Environments for Health Architecture | UCHHealth Micro-hospital | Broomfield, Colorado
17 ESa (Earl Swensson Associates) | Florida Hospital Apopka | Apopka, Florida
18 ESa (Earl Swensson Associates) | Baptist Memorial Hospital – North Mississippi | Oxford, Mississippi
19 EwingCole | Jefferson Cherry Hill Hospital | Cherry Hill, New Jersey
20 Flad Architects | UF Health Heart & Vascular Hospital and UF Health Neuromedicine Hospital | Gainesville, Florida
21 Francis Cauffman | Brooklyn Health Center | Brooklyn, New York
22 Hasenstab Architects, Inc. | Akron Children’s Hospital Mahoning Valley Campus – Building A Addition/Renovation | Boardman, Ohio
23 HDR | Nebraska Medicine University Towers Electrical Upgrades Project | Omaha, Nebraska
<table>
<thead>
<tr>
<th></th>
<th>Architect(s)</th>
<th>Project Description</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>HDR</td>
<td>Fred &amp; Pamela Buffett Cancer Center</td>
<td>Omaha, Nebraska</td>
</tr>
<tr>
<td>25</td>
<td>HKS</td>
<td>Mercy Hospital Joplin</td>
<td>Joplin, Missouri</td>
</tr>
<tr>
<td>26</td>
<td>HKS</td>
<td>Dell Seton Medical Center at the University of Texas</td>
<td>Austin, Texas</td>
</tr>
<tr>
<td>27</td>
<td>HKS</td>
<td>Kachumbala Maternity Unit</td>
<td>Kachumbala, Uganda</td>
</tr>
<tr>
<td>28</td>
<td>HKS</td>
<td>ProMedica Health and Wellness Center</td>
<td>Sylvania, Ohio</td>
</tr>
<tr>
<td>29</td>
<td>Hoefer Wysocki</td>
<td>U.S. Department of Veterans Affairs Psychiatric Residential Rehabilitation Treatment Program Facility</td>
<td>Aurora, Colorado</td>
</tr>
<tr>
<td>30</td>
<td>Hoefer Wysocki</td>
<td>U.S. Department of Veterans Affairs Outpatient Clinic</td>
<td>San Jose, California</td>
</tr>
<tr>
<td>31</td>
<td>Hoefer Wysocki</td>
<td>UT Southwestern Medical Center William P. Clements Jr. University Hospital Tower 3 Expansion</td>
<td>Dallas, Texas</td>
</tr>
<tr>
<td>32</td>
<td>HOK</td>
<td>Ventura County Medical Center</td>
<td>Ventura, California</td>
</tr>
<tr>
<td>33</td>
<td>INVISION Architecture</td>
<td>Outpatient Unit Expansion</td>
<td>Nevada, Iowa</td>
</tr>
<tr>
<td>34</td>
<td>Page</td>
<td>Houston Methodist – The Woodlands</td>
<td>Houston, Texas</td>
</tr>
<tr>
<td>35</td>
<td>Payette</td>
<td>Fifth XiangYa Hospital</td>
<td>Changsha, China</td>
</tr>
<tr>
<td>36</td>
<td>Perkins+Will</td>
<td>HCA Healthcare Riverside Community Hospital</td>
<td>Riverside, California</td>
</tr>
<tr>
<td>37</td>
<td>Ratcliff</td>
<td>Valley Health Center Downtown San Jose</td>
<td>San Jose, California</td>
</tr>
<tr>
<td>38</td>
<td>RLF Architecture + Engineering + Interiors</td>
<td>Weed Army Community Hospital</td>
<td>Barstow, California</td>
</tr>
<tr>
<td>39</td>
<td>Shawnee Mission Health</td>
<td>CREATION Health Operational Renovation</td>
<td>Shawnee Mission, Kansas</td>
</tr>
<tr>
<td>40</td>
<td>Steffian Bradley Architects</td>
<td>Boston Children’s at Brookline Place, Fit-out</td>
<td>Brookline, Massachusetts</td>
</tr>
<tr>
<td>41</td>
<td>The S/L/A/M Collaborative</td>
<td>UMass Memorial Medical Center, MC2020 Bedtower Refresh</td>
<td>Worcester, Massachusetts</td>
</tr>
<tr>
<td>42</td>
<td>TMPPartners, PLLC</td>
<td>Brandon Regional Hospital – Emergency Department Expansion</td>
<td>Brandon, Florida</td>
</tr>
<tr>
<td>43</td>
<td>Wilmot Sanz</td>
<td>Sibley Memorial Hospital: The New Sibley</td>
<td>Washington, DC</td>
</tr>
</tbody>
</table>
Ballinger

Penn Medicine Chester County Hospital, Surgical Platform + Bed Tower
West Chester, Pennsylvania

The design of Chester County Hospital’s expansion is inspired by the Mediterranean heritage of the hospital’s original building. Comprising a new main entrance, an 18-room procedural platform, an emergency department, a parking garage and a new bed tower, the expansion will be the institution’s largest construction project to date, and is intended to propel Chester County Hospital into the vanguard of 21st century health care.

Following a planning process that incorporated evidence-based design and engaged hospital stakeholders with 3D models and full-scale mock-ups, Ballinger developed an experience for patients and staff that promotes tranquility and healing.

New glass elements and courtyards complement the white stucco and tile roofs of the existing campus. They enable intuitive wayfinding while providing access to daylight and nature. A ground floor courtyard serves as a verdant extension of the lobby, with seating beneath a canopy of ginkgo trees. Designed to achieve LEED Silver certification, the project includes an expansive green roof atop the procedural platform.

Square Footage: 250,000  |  Construction Cost: $187 Million  |  Completion Date: 2020
Mercy Hospital Northwest Arkansas is located in Rogers, Arkansas. In 2015, Mercy asked Bates to study the needs of the community and provide a master plan. Bates has since gone through programming, design, and construction documents on an 8-story tower. It will include 36 cardiac inpatient beds, 17 NICU beds, and 14 pediatric patient rooms on the upper floors while the lower floors will house diagnostic and testing services. The 3rd floor surgery platform will be expanded to include 4 new ORs, 4 shelled ORs, a 24-bed PACU, and 34 pre/post private rooms.

The 2nd floor expansion includes 1 new cath lab, 3 shelled rooms, 2 new CT rooms, 5 ultrasound rooms, and 26 pre/post private rooms for the cardiology department. The 1st floor renovation and expansion includes updates to central sterile processing, clinical engineering, material management, loading dock, EVS, pharmacy and laboratory, patient access, pre-admit testing, conference center, and renovated servery and café. The next phase of the project includes a future ED expansion and fit out of 72 patient rooms on the 6th and 7th floors.

Square Footage: 375,303 | Actual Cost: $140.8 Million | Completion Date: June 2020
Monroe Carell Jr. Children’s Hospital at Vanderbilt Vertical Expansion
Nashville, Tennessee

The 4-floor vertical expansion will include 2 built-out floors of universal pediatric patient rooms, 2 shell floors for future patient rooms, and various renovations to the existing building to support the additional bed capacity. The project will advance the size and scope of the hospital’s comprehensive array of specialty and subspecialty pediatric health care programs, and includes:

- 160,000 SF addition, with capacity for 152 inpatient beds
- “Universal” inpatient units and patient rooms to allow flexibility between NICU, PICU, and acute care patient populations

This complex project will require construction above and within the existing hospital, which will remain operational throughout construction. Renovations to the existing building include:

- A new communicating stair and 2 visitor elevators
- Relocations of multiple administrative programs
- Expansion of support services including kitchen, formula prep, and pharmacy
- Infrastructure enhancements to increase capacity and minimize energy consumption (LEED Gold anticipated)

Square Footage: 233,490  |  Construction Cost: $111 Million  |  Completion Date: April 2019
BLAIR + MUI DOWD ARCHITECTS, PC
bmdarch.net

Vanderbilt Medical Center Plaza
Nashville, Tennessee

The Vanderbilt Plaza is an existing roof over two floors of the VU Hospital, including areas containing Radiology, Emergency, GI, and other vital clinical programs. Built in 1980 as part of the adjacent hospital, the original waterproofing membrane below the 55,000 SF plaza required replacement. To remove and replace the deteriorated membrane, all existing brick, plantings, and overburden required removal, presenting the opportunity to redesign the plaza to enhance patient, visitor, and staff experience. The new plaza includes:

- Enhanced building entrances, signage, and canopies to improve wayfinding
- Multi-sized clusters and arrangements of seating
- Canopied trees and trellises for shade
- Accessible pathways and lighting
- Secure and convenient bicycle racks
- Removable overburden including planting trays, pavers, and potted trees to facilitate access to waterproofing
- Leak detection system

Completed in February 2018, the plaza construction was sequenced to maintain access to building entries, and was built in 11 phases.
Littleton Adventist Hospital is a 231-bed acute care hospital originally built in 1989. By 2014, hospital management saw a need to revitalize the facility for the rapidly growing next generation of patients moving into the community. Boulder Associates helped design a multi-phased project focused on increasing the hospital’s invasive cardiology, interventional radiology, pre-/post-operative capabilities, and conferencing space, while giving a clean, modern update to the main lobby. Additions involved a new 1-level horizontal expansion, and a 2-level vertical expansion directly above the existing ED, which houses a new 18-bed PACU for invasive cardiology and surgery.

Square Footage: 61,270   |  Actual Cost: $17.8 Million   |  Completion Date: April 2016
Occupyng two full blocks in the heart of downtown Montreal, the Centre hospitalier de l’Université de Montréal (CHUM) merges three aged francophone hospitals into a single-site institution. The anchor of Montreal’s new health district, the development seamlessly combines teaching, research, and health care—breathing new life into a once neglected neighborhood and solidifying the city’s standing as a health and science hub of excellence.

**BY THE NUMBERS**

- 3 million+ SF
- 22 stories tall
- 772 single-bed patient rooms
- 443 examination rooms
- 15 inpatient departments
- 39 operating rooms
- 40 specialty outpatient clinics
- 70 automated guided vehicles
- 10,000+ employees

Designed by CannonDesign in association with NEUF Architect(e)s

**Square Footage: 3,000,000+ | Actual Cost: N/A | Completion Date: September 2017 (Phase 1)**
Dayton Children’s Hospital New Patient Tower
Dayton, Ohio

The new patient tower for Dayton Children’s Hospital is located in the center of the existing campus, offering connections to important service areas in all directions. Links to existing buildings are provided on multiple levels by bridges and ground floor adjacencies. The 8-level tower is oriented with the length of the building to the northeast. The design of the building’s exterior has been crafted to establish a new identity for the hospital. Private patient rooms on the long faces of the building are clad in a uniquely faceted metal wall system. The north side of the new tower features a 30-foot-tall atrium which connects with the 3rd floor of the new tower and the existing 4th floor. An outdoor play and garden space allows for respite to all to enjoy. Oval skylights ringed with bench seating become feature elements in the play area and bring daylight into the atrium space below. These skylights are illuminated at night with color changing lights. The result of the design is an optimal healing environment that supports lifesaving care for kids.

Square Footage: 250,000  |  Actual Cost: $136.5 Million  |  Completion Date: July 2016
St. Charles Family Care Bend South Clinic
Bend, Oregon

Located in Bend, Oregon, the new St. Charles Family Care Bend South Clinic has a welcoming, modern lodge-like appearance that sets it apart from its commercial, highway-oriented surroundings. The 22,000 SF clinic provides for family medicine and specialists, with urgent care, imaging, lab services, and physical therapy. The goals for this facility included making it convenient for patients, efficient for staff, and flexible in function, maximizing daylight and mountain views, allowing for expansion, and creating a landmark.

The Clark/Kjos team created patient circulation paths that are clear, short, and direct. Doctors and medical assistants have adjacent modular workstations that give the doctors privacy and the assistants easy access to exam rooms. Team centers and waiting areas have outside windows and clerestories, with ample windows also at patient hallways and the staff lounge. Exam rooms are universal and may be used by family practice doctors or specialists, with the addition of some larger urgent care rooms for intermediate medical treatment.

Square Footage: 22,000 | Actual Cost: $5 Million | Completion Date: 2016
This project consists of building a new 5-story tower that will become the new front door to the campus. The new tower will include a new adult emergency department that is also a level 2 trauma center. The new department consists of 77 treatment rooms serving 165,000 patients a year, making it the busiest emergency center in Nevada. The upper floors consist of a 36-bed ICU, a 36-bed med/surg unit, with 2 shelled floors for future bed needs. A new rooftop helipad will be added with direct access to the trauma center. In an effort to increase speed to market, the design incorporates many innovations including pre-fabricated components for exterior wall panels, headwalls, footwalls, and bathroom pods that promote the standardization of design and construction, while improving the efficiency in the project delivery and the healthcare within. The central plant will be upgraded to accommodate the existing campus, the addition, and the future buildout. The campus exterior will be re-cladded to complement the tower and create a new facade revealing a new signature presence for this hospital.

Square Footage: 240,000 | Actual Cost: $90 Million | Completion Date: 2nd Quarter 2019

Devenney Group Ltd., Architects

devenneygroup.com

Sunrise Hospital New Patient Tower and Emergency Department
Las Vegas, Nevada
Cleveland Clinic Avon Bedtower Post Occupancy
Avon, Ohio

Envisioned as the “Hospital of the Future,” the Cleveland Clinic Avon Hospital leverages flexibility and technology while incorporating an interdisciplinary team approach to both medicine and services. Simultaneous to design, medical staff developed a workflow process to coordinate with interdisciplinary teaming, e-hospital, and technological advancements. The collaborative design, which is informed by process mapping of patient, material, and support services, results in a 15 percent reduction of space compared to an average acute care hospital in the United States. Visioning sessions involved enterprise leaders and a PhD researcher in the analysis of multiple mockups of patient rooms. This medical project delivered a new 225,000 SF inpatient bed tower to an existing family health and ambulatory surgical center. The scope added 126 inpatient beds, 14 medical/surgical patient rooms, 12 intensive care beds, 2 new operating rooms, a pharmacy, a processing lab, dietary services, and an expansion of the emergency and imaging departments.

Square Footage: 224,300  |  Actual Cost: $110.2 Million  |  Completion Date: 2016
Micro-hospitals have become popular as a solution to help health systems grow market share and deliver greater value. Micro-hospitals require a clear strategy, a sound operational model, and a clinical support plan in order to be successful. UCHealth’s micro-hospital at Broomfield is one of five prototype models E4H has developed. UCHealth’s mission was to improve access to emergency and acute patient care. The site offers a 24/7 emergency room, an outpatient surgery center, laboratory services, operating suites, an intensive care unit, a full radiology suite, and deluxe private inpatient rooms.

Scalable from 10-24 beds, micro-hospitals offer comprehensive, acute care in convenient locations. E4H has completed over 28 micro-hospitals to date, offering health systems an efficient solution to improving patient access on an accelerated timeline. An attractive option to for-profit and non-profit entities, micro-hospitals report double the operating margin of general acute care hospitals.
The new replacement Florida Hospital Apopka is the first greenfield campus built by Florida Hospital since the 1990s and will serve as a prototype that envisions the future of healthcare. The design is inspired by the greenhouses that spread across Apopka, while the site is designed to resemble a natural environment. Urgent care is incorporated into the traditional emergency department setting and combined with Florida Hospital’s Lean track model and OBs Care model in an effort to improve wait times and allow patients to be seen at the appropriate level of care. Physician offices are integrated for convenient access to services. The building’s transitional design sets the tone for Wellness Point, a developing mixed-use district focused on health care, retail, and residential use.

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**Florida Hospital Apopka**  
Apopka, Florida

Square Footage: 333,000  |  Actual Cost: N/A  |  Completion Date: November 2017

ESa (Earl Swensson Associates)
Baptist Memorial Hospital – North Mississippi
Oxford, Mississippi

Completed in September 2017, the 525,887-square-foot replacement hospital for Baptist Memorial Hospital - North Mississippi, located on approximately 50 acres in Oxford, provides more capacity than its predecessor for increased volumes in such key services as outpatient and emergency. An ambulance building is uniquely adjacent to the hospital and contains four bays for ambulances and also sleep rooms for EMTs. A meditation courtyard separates the 217-bed hospital and the medical office building, while a covered connector links the hospital to the MOB. The facility was master planned and positioned to easily allow future growth and development opportunities on the medical campus.

Square Footage: 525,887  |  Actual Cost: N/A  |  Completion Date: September 2017
Designed to support Jefferson Health’s high standard of care, this cutting-edge facility features a new garage, ambulatory services building, and entrance lobby. Site landscaping creates a park-like environment surrounding the entire facility for patrons to view and experience.

The lobby, bathed in natural light, projects an upbeat environment more reminiscent of a hotel than a hospital. Warm wood ceilings, color accents, artwork, and hospitality-based furniture softly enliven and punctuate the space.

Functionally, the design supports the multiple departments that it connects, both in the existing tower and the new ambulatory building, as well as the future tower. A new patient center and café offer seating that overlook gardens. The ambulatory surgery department houses a reflection room for patients and guests seeking a quiet moment. Family zones are provided, along with a new conference area and breakout zone for the hospital and its larger community.

The building’s exterior glass surface, intermixed with travertine stone, projects contemporary sensibility, warmth, and timelessness.

Square Footage: 102,000  |  Actual Cost: $82 Million  |  Completion Date: June 2017
UF Health Heart & Vascular Hospital and UF Health Neuromedicine Hospital
Gainesville, Florida

Constructed around a central park of lawns, gardens, and water features, these integrated specialty hospitals meet the needs of patients with a cardiovascular or neurological diagnosis. The new tower ties to the phase one Shands Cancer Hospital by way of a second-level connector that bridges the existing and new hospital. Spanning the drive into the campus, the connection provides a new gateway into the campus with a shared surgery platform on level two and outdoor terraces above. Maximizing the use of windows and full-height openings extends natural light far into the interior environment, which emphasizes the sense of excellence, innovation, and best-in-class care offered to the state’s growing number of cardio-neurology patients.

Distinctive, patient-centered elements and architectural features, including a light wall, a marine glass sculptured wall, and a meditation sanctuary, highlight the interior. The color palette was selected to create a calming and stress-free environment, and to support easy navigation and wayfinding within the building and to the outpatient clinics.

Square Footage: 520,000  |  Actual Cost: $415 Million  |  Completion Date: 2017
Brooklyn Health Center
Brooklyn, New York

Located one block from the Brooklyn Academy of Music, the Brooklyn Health Center is an 180,000 SF, 12-story, mixed-use Health Center and commercial hub for The New York Hotel Trades Council and Hotel Association of New York City, Inc. Health Benefits Fund, Health Center, Inc. (HCI). The contrasting textures of its glass curtain wall capture the shadows and reflections of the surrounding architecture, transforming as the sun moves across them over the course of a day. Additionally, the glass skin makes visible the movement of people inside the building—the building’s circulation corridors run alongside its perimeter, around the clinical spaces, inverting the traditional layout of healthcare interiors. This fluidity continues in the programming of clinical spaces. The building does not have physicians’ offices or waiting rooms. Instead, all appointments are handled electronically through online scheduling and registration programs that link patient records and medical history with the appropriate treatment. HCI predicts that 85% of patients will be treated in less than an hour.

Square Footage: 180,000  |  Actual Cost: $110 Million  |  Completion Date: July 2017
Akron Children’s Hospital Mahoning Valley consolidated their multi-site primary and specialty care services onto their Boardman Campus. The convenience and accessibility of combining these offerings in one building was reinforced in the design of this 2-story addition. A new front door provides an easy to find entrance. The main level features a regionalized registration desk and a main concourse with shared waiting areas for all practices. The 2nd floor is identical to the 1st for easy wayfinding. A total of 47 exam rooms are arranged into 3 practice areas for primary care and medical and surgical specialty groups. Any specialty can be scheduled in any universally designed exam room, maximizing schedule flexibility. A sports rehabilitation area rounds out the services offered. The renovation portion of this project includes the lobby and a small section of the Hemocology/Oncology Suite for the inclusion of palliative care. Interior design elements reinforce a “reconnecting with nature” theme reflecting the surrounding park system.
When a CMS physical environment audit showed that an aged university tower electrical distribution system needed significant replacement and modification to maintain certification, an experienced team collaborated to provide a detailed response within the 45-day requirement that included:

- Re-distribution of campus circuits and removal of pad mount switches to make way for new 480V electrical building construction (located over existing electrical space)
- Installation of new electrical equipment, providing required branch separations
- Commissioning new main infrastructure
- New riser rooms on each floor to accommodate code-required branch-separated distribution
- Re-routing brand circuits to their respective panels, with adequate spare breakers/panel space for future department remodels

The end result of this project helped to better serve the staff and patients by increasing the reliability and stability of the electrical distribution system that they rely upon. It was completed with no unscheduled outages while meeting budget and CMS schedule (and certification) requirements.
The Fred & Pamela Buffett Cancer Center, the brainchild of the University of Nebraska Medical Center and the Nebraska Medical Center, is designed to place researchers working in laboratories just steps away from clinicians caring for patients. The collaboration, communication, and problem-solving fostered in special translational “knowledge transfer” zones inspires trans-disciplinary integration and helps accelerate individualized patient treatments based on the latest research and a patient’s own cancer cells. Seven floors of the research tower are dedicated to different types of cancer, attracting the world’s foremost scientists. For patients receiving care, a new 108-bed inpatient tower sits adjacent to a multidisciplinary outpatient center where patients go for diagnosis, plan of care, and treatment. Spaces within the center are designed to enhance the patient experience through physical and emotional connections, including unique environments such as the Chihuly Sanctuary and Leslie’s Healing Garden.

Square Footage: 615,000  |  Actual Cost: $323 Million  |  Completion Date: February 2017
In May 2011, a tornado ravaged Joplin, Missouri. Mercy Hospital was devastated, leaving a community desperately in need of medical attention without a working facility. Within hours of the disaster, Mercy contacted HKS and McCarthy to help them rebuild. The team worked closely with Mercy to develop their vision for the future. Delivering on that vision meant accomplishing an almost impossible task—designing, building, and opening a 208-bed, 890,000 SF replacement hospital and outpatient facility in less than four years. We mobilized our team, co-located, and searched for solutions that would accomplish this task. In March 2015, the new and improved Mercy Hospital Joplin was delivered, with systems and structure designed to withstand even the fiercest storm. The journey to the new hospital campus embodies the spirit, fortitude, and determination of the Sisters of Mercy who originally founded the hospital in the late 1800s. The new hospital restored hope and will serve the people of Joplin for many years to come.

Square Footage: 890,000 | Actual Cost: $344.1 Million | Completion Date: January 2015
The facility is part of a vibrant, diverse, dense urban district with humanely scaled architecture. The LEED Gold certified 517,300 SF, 195-bed teaching hospital includes the area’s only Level 1 trauma center, a 30-bed intensive care unit, a 30-bed universal care unit, 135 med/surg beds, 12 operating rooms, 1 hybrid operating room, and 2 cath labs. The design establishes a formal gateway and health anchor to the campus; and, with built-in flexibility, the north tower is planned for a 4-story vertical expansion to the existing 7 patient floors. Balancing the requirements of a Level 1 trauma center with a high-traffic ER against the desire for a pedestrian-friendly campus required the team to clearly define entry points. The team faced challenges including an aggressive schedule with a hard-opening date, scarce availability of a skilled labor force, and an urban site with limited laydown area and accessibility. Prefabrication solved these issues, saving significant time and money.

Square Footage: 517,300  |  Actual Cost: $165 Million  |  Completion Date: 2017
Kachumbala Maternity Unit
Kachumbala, Uganda

Kachumbala is in an impoverished region with limited access to health care and a high infant and maternal mortality rate. Partnering with Engineers for Overseas Development (EFOD), a Wales-based non-profit organization that trains young construction professionals, and Cyfle Building Skills, which trains young apprentices in the building trades, HKS designed (pro-bono, through its public interest design initiative, Citizen HKS) a sustainable, passive (there is no running water or reliable source of electricity) maternity unit. The new building houses 2 new delivery suites and a 7-bed postnatal ward to accommodate a minimum of 6 births per day, with the flexibility to support future expansion. The new maternity facility replaces the existing 2-room, 1950s-era pre- and post-natal unit, which was unable to accommodate 4 out of every 10 women who travel, often long distances on a motorcycle taxi. The design was evaluated with the assistance of UK-based health professionals, who are also providing midwife training and other support for local health care providers.

Square Footage: 3,000  |  Actual Cost: $160,000  |  Completion Date: 2017
ProMedica Health and Wellness Center
Sylvania, Ohio

The facility brings together 11 system physician practices from different parts of the city into one location to facilitate patient access and create a sense of place. The 230,000 SF ambulatory care center features bariatrics, digestive health/endo suites, and physician practice space. The promenade circulation spine features clearly defined entry portals to point-of-care destinations. Healing garden courtyards provide connections to nature and bring an abundance of daylight inside.

HKS formed cross-functional teams with leaders from each practice to determine current space utilization in the existing buildings, to understand the current state operations, and to establish future state operational model, space requirements, and exam room utilization. The analysis resulted in a collaborative model of care that reduced space requirements and saved the client construction cost. Room standardization and connectivity between 23 modules allows for flexibility, making schedule load leveling easier and increasing the potential for higher exam room utilization.

Square Footage: 230,000 | Actual Cost: $50 Million | Completion Date: 2016
The U.S. Department of Veterans Affairs notes that PTSD is the most prevalent mental health challenge faced by our nation's veterans and has made a significant move to increase outreach and access to resources. As part of this initiative, the VA commissioned this PTSD Psychiatric Residential Rehabilitation Treatment Program facility for the VA Eastern Colorado Healthcare System. When complete, this facility will be one of the first freestanding VA PTSD treatment facilities in the country.

This project includes 18 private beds, multipurpose and group therapy rooms, therapist and administration offices, and lounge, kitchen, and dining areas. The program supports intensive PTSD programs, which include evaluation and case management in a 24-hour therapeutic setting to determine individualized psychotherapy treatment.

Square Footage: 18,310 | Estimated Cost: $8 Million | Completion Date: 2019
U.S. Department of Veterans Affairs
Outpatient Clinic
San Jose, California

This $37 million design/build, lease-back, 92,000-SF outpatient clinic is designed to fuse the existing site, local climate, and surrounding landscape to create a healing oasis that connects patients, staff, and the community. The inspiring atmosphere played a significant role in shaping the form and orientation of the building with exterior wood veneer composite panels and transparent glazing. Taking full advantage of the unique site, views of Mount Hamilton and the Santa Cruz Mountains are available on all three floors from the east and west. The clinic is designed for LEED Silver certification.

San Jose outpatient clinic specializes in many different areas of service including the following: mental health, nutrition, well body, physical therapy, diagnostic, and clinics. The challenge was to organize all the services around a simple public and community space that would orient all people to all services.

Square Footage: 92,000  |  Actual Cost: $37 Million  |  Completion Date: January 2018
The William P. Clements Jr. University Hospital (CUH) is the centerpiece of acute care for the nationally acclaimed UT Southwestern Medical Center. At 715,000 SF, the new tower will house diagnostic/treatment and 292 beds focusing on neurology, brain, spine, and oncology services and will increase the total number of inpatient beds from 460 to 752.

The facility was designed with two primary components: podium and tower. The podium houses all diagnostic and treatment departments as well as major support services with a distinct separation of flow between visitor, staff/patient, and service. The tower incorporates a serrated configuration with elevator cores at each bend. Expansion strategies were incorporated within the original design to allow future growth and to reduce disruptions to ongoing operations.

Square Footage: 715,000  |  Actual Cost: $480 Million  |  Completion Date: January 2020
The design unifies a collection of existing buildings and creates a cohesive health care campus with a network of indoor-outdoor rooms, plazas, and gardens. An enhanced promenade serves as an organizing element to the campus and provides a framework for future expansion. Along with the landscape, the building’s warm colors and natural materials present a welcoming face to the community. The new main entry gives the hospital a new public identity. Located at the crossroads of the campus’ two main circulation spines, it provides a sense of arrival.

The new hospital replacement wing nestles into the natural slope of the site, sheltering the loading dock and service yard from view and creating a unique three-dimensional experience, moving through the multi-storied lobby up to the tiered east plaza.

Surgery, Interventional Radiology, Imaging, and Sterile Processing form the interventional platform on the ground floor. The qualities of flexibility, modularity, standardization, and visibility infuse all the spaces, enhancing efficiency and safety. Staff amenities, such as a private surgeons entrance, promote recruitment and retention. Natural light is brought in wherever possible.
Outpatient Unit Expansion
Nevada, Iowa

This 1-story addition and renovation to an existing hospital promotes a zoned health care campus. All outpatient services, including primary care, therapy, rehabilitation, and wellness, are consolidated in a state-of-the-art facility focused on quality of care. Natural light, views, and carefully crafted spaces enhance the patient experience. A key component to the project is a new main entrance to the hospital, incorporating a new porte-cochère allowing covered cueing space for multiple vehicles. The entry lobby features a centralized registration area that includes a greeter desk, private registration rooms, quick registration stations, and soft seating. The new ambulatory care environments are oriented to maximize natural daylighting strategies. A sensitive use of new materials complements the existing palette but provides a more progressive and energy-efficient design. The ipe and terracotta facades are woven into the interior design, complemented by additional natural materials and graphics promoting health and wellness.

Square Footage: 37,100 | Actual Cost: $15.4 Million | Completion Date: June 2017
Page has a long-standing relationship with Houston Methodist and has worked on numerous projects including the master plan for their west campus, a 474,000 SF hospital and several medical office buildings. Page and Houston Methodist partnered again to bring another community hospital, the eighth in the Houston Methodist system, to the greater Houston metropolitan area. This new campus is located in The Woodlands, a rapidly growing township just north of the Houston city limits. It provides a similar level of health care service to the area that can be found at its West Houston location in the Texas Medical Center West. The Woodlands is currently experiencing significant and sustained population growth, which increases demand for full medical services in the area. Houston Methodist opened the 162,000 SF, 6-story medical office building and 13,000 SF central utility plant in January 2016 and the 475,700 SF, 6-story hospital in the summer of 2017.

Square Footage: 475,700  |  Actual Cost: $312 Million  |  Completion Date: 2017
Fifth XiangYa Hospital
Changsha, China

Covering a site of almost 30 acres, the 2,500-bed Fifth XiangYa Hospital requires an extensive network of systems to ensure that the staff have the necessary resources to provide care, and that patients and visitors can easily navigate the immense facility.

Each inpatient floor has two circulation paths: one for staff and materials management; one for patients and visitors. Separating these circulation paths improves the patient experience by reducing cart and staff traffic near patient rooms, thereby decreasing potential noise disruption. The clear organization and integration of these hospital systems prioritize a positive patient and staff experience. Clear wayfinding with transparency and access to daylight eases stress for patients and visitors as they navigate the hospital complex. Staff members have opportunities for respite and rejuvenation that ultimately improve patient care. The networked systems recede into the background, allowing the complex’s healing characteristics and integration with nature, daylight, and views to have greater impact.

Square Footage: 5.6 Million  |  Actual Cost: N/A  |  Completion Date: 2020
Encompassing more than 550,000 SF, the expansion of Riverside Community Hospital is one of the largest projects Nashville-based HCA Healthcare and Perkins+Will have completed over a 25-year relationship. Opened in 2017, the 7-story expansion includes a perinatal unit, a 12-bed intensive care unit, and medical/surgical nursing units (60 beds total), as well as a new lobby, dietary, clinical laboratory, central utility plant, and loading dock. Shell space is included on multiple floors to allow future expansion of inpatient bed capacity, imaging, and surgical services. The new tower establishes a formal datum connecting new and existing hospital buildings. This connecting path enhances site flow and patient/visitor wayfinding on campus. Exterior glazing is used strategically to maximize scenic views.

Square Footage: 555,450  |  Actual Cost: N/A  |  Completion Date: August 2017
Valley Health Center Downtown San Jose
San Jose, California

Situated at a transit gateway to downtown San Jose, served by a future BART station and a major bus corridor, the Valley Health Center connects three multicultural vicinities that historically have lacked access to medical services.

The three-story, 62,000 SF facility includes urgent care for adults and children, primary care for pediatric, OB/GYN and family medicine, behavioral health services, and laboratory, pharmacy, and radiology departments. Details include 12 urgent care exam rooms, 22 clinic exam rooms, 2 eye exam rooms, 12 pediatric exam rooms, and 12 OB/GYN exam rooms in a perimeter corridor and pod design.

Ratcliff incorporated light and sustainable design elements to achieve LEED Gold certification, and composed the interior building architecture, colors, and materials to reflect the multicultural clientele and the facility’s urban downtown location. Warm, pleasing interiors greet a diverse patient population and provide an ambiance helpful in reducing anxieties associated with medical visits.

**Square Footage:** 62,000  |  **Actual Cost:** $39 Million  |  **Completion Date:** May 2016
Weed Army Community Hospital
Barstow, California

Located in a remote California desert, this 216,000 SF hospital-clinic serves soldiers, families, and retirees of the Fort Irwin community. Inspired by its remote location and severe conditions, the facility was designed as the first net-zero, Carbon-neutral hospital in the country, achieving a LEED Platinum rating and setting precedent for future hospitals across the United States.

The vision was “an oasis in the desert,” providing a place of refuge, healing, and restoration from the harsh surroundings. The imagery of rock outcroppings, dappling water, and palm fronds create a composition that blends with the desert landscape and provides a serene healing interior.

The building is nestled into a sloping site, zoning the main entry on the mid-level, service access below, and privacy on the upper level. Designed in a “horseshoe” shape, the main entry and exterior desert garden, overlooking the Teifort Mountains, separate the hospital from the clinic. The hospital and clinic functions were split to enhance functionality and flexibility while allowing energy, construction, and cost savings.

Square Footage: 216,000  |  Actual Cost: $274 Million  |  Completion Date: 2017
CREATION Health Operational Renovation
Shawnee Mission, Kansas

CREATION Health is the belief that optimal health depends on the vitality of body, mind, and spirit. By embracing this whole-person care approach, Shawnee Mission Health (SMH) is compelled to improve the patient experience and workplace culture.

SMH created a team to identify priority areas to enhance department efficiencies, improve staff, enrich patient outlook, and maximize facility performance. Their plan began with relocating and modernizing Central Processing, originally located in the heart of the hospital, and replacing it with Harvest Kitchen and dining. The existing servery and dining was converted into a state-of-the-art conference center for training and community education.

Multiple complex systems containing aging equipment passed through all the project areas. This required careful planning from the project team to maintain critical operation in the design and construction of the new spaces. Each obstacle was an opportunity to preserve the goals of the project—to bring the vision of CREATION Health to life.

Square Footage: 67,185  |  Actual Cost: $17.2 Million  |  Completion Date: December 2016
Steffian Bradley Architects (SBA) is currently providing design services for the fit-out of Boston Children’s at Brookline Place project, part of Boston Children’s expansion and renewal projects known as Transforming Tomorrow. Boston Children’s at Brookline Place will be a new 8-story building housing 144,000 SF of program space for the country’s top-ranked children’s hospital’s ambulatory clinical programs.

Within the building will be a Neurodevelopmental and Neuropsychiatric Center co-locating multi-disciplinary providers treating patients diagnosed with disorders relating to behavioral health, attention deficit/hyperactivity, autism spectrum and cognitive development, speech/language, and hearing. Other departments include a procedure suite, MRIs, PT/OT, chronic pain services, immunology, ophthalmology, and dental.

The theme “The Amazing You” was developed to highlight exploring the world through each sense in a friendly, safe, and supportive environment and provide clear wayfinding throughout the building. This project is designed to achieve LEED Silver certification.

Square Footage: 144,000 | Actual Cost: N/A | Completion Date: N/A
The UMass Memorial Medical Center “MC2020” project will span seven years with multiple phases and check in at $200 million. It will modernize the Medical Center’s Memorial and University campuses, including new private patient rooms, with modern finishes and equipment. Included in the patient room upgrades are new beds, patient lifts, and family and staff zones. The project also creates new collaborative team stations to be shared by staff and students, new waiting areas, public areas and hallways, wayfinding and signage, new infrastructure systems, and more. Lastly, the project includes the renovation of the chapel, as well as a new simulation center and classroom space at the Memorial Campus, to be shared by staff and residents. UMass Memorial Health Care is showing its commitment to the community, the hospital’s staff and patients, and medical school students. By utilizing sustainable technology and renovating instead of building new, UMass Memorial Health Care is saving a considerable amount of money while creating a state-of-the-art environment for healing and learning.
Brandon Regional Hospital – Emergency Department Expansion
Brandon, Florida

This existing emergency department is being enlarged to accommodate an ED that is flexible to function as the volumes and level of care required may fluctuate. These areas of flexibility include 72 exam/treatment rooms, 2 CT rooms, 2 radiology rooms, and the relocation of cardiac rehab, physical therapy offices, bed control, and a pre-admission unit. The main walk-in entrance has been located under the existing north tower. The drives have been reconfigured to optimize traffic flow patterns. The main adult ED will consist of approximately 32 rooms that may flex based on acuity level. A central core support area will serve the main ED. A separate suite is designated for behavioral health exams and treatment. This unit contains 4 flexible exam rooms and 2 designated secure holding rooms. The south public entrance provides a dedicated pediatric ED entrance. The pediatric ED contains 16 exam rooms and access to the ambulance entrance and helipad elevators. It will also have its own waiting, triage, and support spaces.

Square Footage: 78,494 | Actual Cost: $31 Million | Completion Date: October 2017
Sibley Memorial Hospital: The New Sibley
Washington, DC

The New Sibley patient pavilion reflects over a decade of careful planning and development and is the latest phase of a transformative master plan for Sibley Memorial Hospital, a member of Johns Hopkins Medicine’s Washington, DC campus. Serving as a new front door for the campus, the 200-bed pavilion creates a medical center destination with all private patient rooms, a new emergency department, and expanded women’s and infants’ services.

Spanning the length of the New Sibley campus development, a pedestrian concourse connects the pavilion to the state-of-the-art cancer center, the outpatient medical building, various service line entries, and two parking garages. Surrounded by gardens and bathed in natural sunlight, the concourse provides a safe, straightforward public circulation spine in a beautiful, comfortable space for patients, visitors, and staff.

Designed to evoke Washington, DC, with a blend of classical and monumental design softened with natural materials and curved forms, the pavilion blends seamlessly with the existing campus and the residential neighborhood.

Square Footage: 486,000 | Actual Cost: N/A | Completion Date: September 2016
COMPANY LISTINGS
Ballinger

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Bates Architects

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Blair + Mui Dowd Architects

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Blair + Mui Dowd Architects specializes in clinical, research, and community facility architecture. Project experience includes health care, research, educational, and academic facilities with complex programmatic and operational requirements. Our services include strategic analysis, programming, master planning, and research-based design for new buildings, renovations, and adaptive reuse projects.

Boulder Associates Architects

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Boulder Associates is a design firm that specializes exclusively in health care and senior living design. Founded in 1983, they help clients set new standards for healing environments by aligning facility investments with business strategies and goals. With offices in Colorado, California, and Texas, Boulder Associates maintains a staff who all share a belief in the power of design to enrich lives.
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FKP | CannonDesign delivers more than architecture for health, research, and education. Our recent merger with CannonDesign represents a remarkable fusion of expertise—bringing together our leading design practice with one of the most innovative architecture and engineering firms in the world.
Clark/Kjos Architects, LLC

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Clark/Kjos Architects is focused 100 percent on health care design. In the last 25 years, we have completed more than 1,000 health care projects and worked with more than one-third of the Pacific Northwest’s health care systems. We are recognized for strategic, sustainable, and innovative solutions in design, planning, and facilities management.

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DLR Group | Westlake Reed Leskosky

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DLR Group | WRL serves clients through the integrated delivery of planning, architecture, engineering, interiors, and building optimization for all building types. DLR Group acquired Westlake Reed Leskosky in September 2016, and today our combined health care expertise and design resources serve clients as a collaborative health care studio committed to elevating the human experience through design.

E4H Environments for Health Architecture
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E4H focuses 100 percent on health care design. We are dedicated to creating lean and flexible environments for health that enhance the well-being of patients, staff, and families. We provide value to our clients through collaborative and efficient smart facility design, creating environments that reduce operating costs, support new care models, and are economically and environmentally sustainable.
ESa (Earl Swensson Associates)

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ESa (Earl Swensson Associates) provides design services across the country for acute-care hospitals, microhospitals, outpatient and specialty facilities, health and wellness centers, cancer centers, orthopedic hospitals, rehabilitation centers and medical office buildings. An affiliate member of The Center for Health Design, ESa creates cost-effective, efficient environments that shape lives.

EwingCole

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EwingCole is a nationally recognized architecture, engineering, interior design, and planning firm of over 350 professionals. Health care design represents the core of our practice. We form collaborative relationships with our health care clients to create uplifting, efficient, and encouraging experiences for patients, families, and staff. EwingCole is located in Charlotte, Irvine, New York, Philadelphia, Pittsburgh, and Raleigh.
Flad Architects

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Francis Cauffman

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Francis Cauffman is a source of new ideas for positive change. For over 60 years, the firm has been helping health care systems to create innovative, high-performing facilities. Ranked among the top design firms nationally by Modern Healthcare magazine, Francis Cauffman’s award-winning work has been featured in Architectural Record, Architect, Contract, and other top industry journals.
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HKS

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Hoefer Wysocki

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HOK

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HOK is a global design, architecture, engineering, and planning firm. We use design to enrich people’s lives and help organizations succeed. Our 1,700 people collaborate across a network of 23 offices on three continents. HOK’s mission is to deliver exceptional design ideas and solutions for our clients through the creative blending of human need, environmental stewardship, value creation, science, and art. Our design solutions result from a collaborative process that encourages multidisciplinary professional teams to research alternatives, share knowledge, and imagine new ways to solve the challenges of the built environment.

INVISION Architecture

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INVISION is a planning, architecture, and interiors firm that builds collaborative relationships resulting in holistic, progressive solutions. Our process relies on discovery, strategy, and implementation. Our balanced approach is critical to client success, but what’s most important are people: building relationships and enjoying the experience.
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Payette
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Ratcliff

Founded in 1906, Ratcliff is a leader in the planning and design of health care architecture. Since the 1960s, we have embraced the potential for exploration as new models of care have been introduced. For the next 100 years, our aim is to continue to design flexible spaces that embrace our clients’ organizational culture, leverage technology, and produce wellness-oriented environments.
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Steffian Bradley Architects

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SLAM

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