

SIPHONIC STORM DRAINAGE

PROJECT PORTFOLIO



MIFAB[®]
HYDROMAX[®]

About MIFAB

MIFAB provides quality, engineered plumbing and drainage solutions. Our innovative patented siphonic storm drainage products offer cost savings for the owner and the installer.

Siphonic roof drains by HYDROMAX MIFAB increase site sustainability by reducing site disturbance, construction time, material amount, while saving space and providing the owner with a design flexible storm water drainage system.

Siphonic Management & Design



Brennan Doherty
NATIONAL SALES MGR.



David Saieh
SIPHONIC ENGINEER



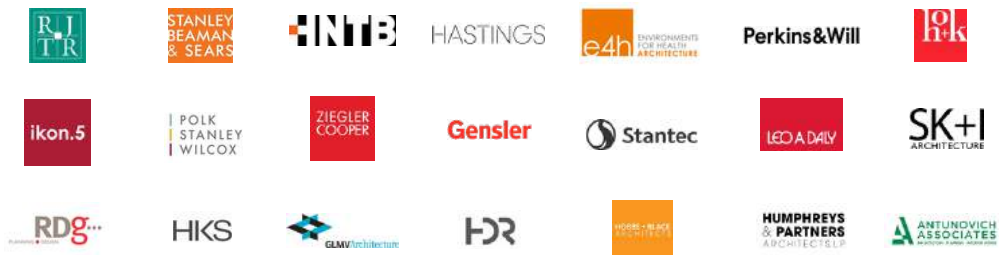
Hydromax Design Partners

Embry Riddle Aeronautical University
ikon.5 architects

CLIENTS



DESIGNERS



Designed with Hydromax Siphonic



HYDROMAX Roof, Gutter, Terrace, Overflow, Parking Deck
(Not Shown)

BUILT	TYPE	SQFT.	COST	ARCHITECT	PROJECT NAME / DEVELOPER	STATE
2019	Mixed	628,000	\$430mil	Gresham Smith and Partners	Brookfield Properties - 5th & Broadway	TN
2022	Mixed	565,000	\$150mil	Housing Studio	Woodfield/Origin /Keith Corp	SC
2021	Mixed	125,000	\$300mil	KEPHART Architecture	Edwards Companies	FL
2022	Mixed	233,613	\$57mil	Cooper Carry	Mill Creek Residential - Modera Decatur	GA
2021	Mixed	169,000	\$84.3mil	Davis Partnership Architects	Mill Creek Residential - Modera Cap Hill	CO
2020	Mixed	200,000	\$93.8mil	SK & I Architectural Design Group	Mill Creek Residential - Modera Prominence	GA
2019	Mixed	43,000	-	Hord Coplan Macht	MRP Realty /JBG Smith - Wren DC	DC
2017	Mixed	250,575	\$205mil	Leo A Daly	BlueStone	NE
2016	Mixed	592,000	\$90.8mil	Loewenberg Architects	Magellan/Wanxiang/Giarratana - SoBro Childress	TN
2021	Mixed	123,000	\$200mil	Rule Joy Trammell + Rubio, LLC	Klein Properties	NC
2016	Mixed	-	\$80mil	Ziegler Cooper Architects	Howard Hughes Corp - One Lakes Edge	TX
2020	Education	275,000	-	Gensler	Landmark Properties - Moontower Apts.	TX
2020	Education	-	-	Humphreys & Partners Architects	WGC Development - Tower 5040	TX
2021	Education	-	-	MVE + Partners	Park 7 Group - Park Place @ Reno	NV
2022	Education	347,689	-	Antunovich Associates	Core Spaces - HUB @ Auburn	AL
2021	Education	-	\$61mil	Stantec	Hilltop Village - WMU Arcadia Flats	MI
2020	Education	356,000	-	Dwell Design Studio	Landmark Properties - CSU Standard @FC	CO
2019	Education	432,000	\$151mil	Hamilton Anderson	Wayne State University - Corvias	MI
2011	Education	172,000	\$87.7mil	Wight & Company	Naperville ISD 203 - High School	IL
2021	Stadium	742,000	\$319mil	HNTB Architecture	Pizzuti Companies/Haslam Sports Group	OH
2017	Stadium	700,000	\$863mil	HOK	Olympia Development of Michigan	MI
2019	Stadium	110,000	-	Lose Design	Nashville Predators - Sabertooth Sports	TN
2011	Stadium	56,932	\$12.3mil	RDG Planning & Design	University of South Dakota	SD
2021	Casino	-	\$500mil	JCJ Architecture	TynanGroup LLC	OK
2017	Casino	796,184	\$329mil	HKS	Muscogee Creek Nation	OK
2021	Casino	113,000	\$250mil	SOSH Architects	Deleware North	AR
2021	Industrial	875,000	\$285mil	Eppstein Uhen Architects	Komatsu Manufacturing	WI
2018	Industrial	204,000	-	GLMV Architecture	Viega Manufacturing	KS
2017	Office	2 mil	\$600mil	Davis	Ryan Company - State Farm HQ	AZ
2021	Office	573,000	\$285mil	Hastings	Highwood - Asurion Gulch Hub	TN
2020	Office	250,000	\$77mil	HKS	Wexford Science & Technology - ASU	AZ
2019	Office	260,000	-	Gensler	USCIS Dallas Field Office	TX
2020	Medical	125,000	\$30mil	Crafton Tull of Rodgers	Highlands Oncology Group	AR
2021	Medical	233,613	\$11.4mil	Polk Stanley Wilcox	Arkansas Blue Cross and Blue Shield	AR
2012	Medical	630,000	\$225mil	Stanley Beaman & Sears	Nemours Foundation Children's Hospital	FL
2008	Medical	191,000	\$36.4mil	E4H - Environments for Health Arch.	Kaizen Development Partners	TX
2010	Medical	670,000	\$250mil	RDG Planning and Design & HOK	Wellmark Blue Cross Blue Shield	IA
2022	Medical	120,000	\$70mil	Cromwell Architects Engineers	Ozarks Healthcare Medical Office Building	AR
2022	Medical	93,000	\$60mil	Cromwell Architects Engineers	Conway Regional Health System	AR
2018	Medical	267,000	\$84mil	RDG Planning and Design & HOK	University of Creighton	NE
2020	Medical	24,000	-	Polk Stanley Wilcox	Carti Cancer Center - N. Little Rock	AR
2009	Medical	226,000	\$12.2mil	BWBR architects	Mercy One - West Des Moines Medical Center	IA
2020	Medical	220,000	\$95mil	HDR Architecture Inc.	VCU Health - Sheltering Arms Institute	VA
2019	Civic	1 mil	\$55mil	Thompson, Ventulett, Stainback & Ass.	Georgia World Congress Center	GA
2016	Civic	172,000	\$58mil	Cartaya and Associates Architects	Pembroke Pines Civic Center	FL
2019	Airport	7,500	\$590mil	The Smith Group JJR	PHX Airport Terminal 2	AZ
2008	Airport	47,000	-	HKS	ATL Airport Concourse C	GA
2015	Retail	-	-	Disney Co.	The Walt Disney - Disney Springs	FL
2019	Retail	58,000	\$17.2mil	Hobbs+Black Architects	Restoration Hardware - Edina	MN
2010	Retail	140,000	-	Eco Gardens	Walmart Super Center Green Roof	IL

*Complete project list available upon request.

No Pitch Drainage

Pipes run flat. Pipe diameter and material are reduced by half and can be routed to a single civil connection. Less vertical drops, less penetrations, less material, less trenching, and less site disturbance. Just think of what you can do with all that extra space.

Siphonic storm drainage is based on the simple principle of a siphon with negative pressure caused by a difference in height of the building. The bigger the difference, the stronger the force and the faster the flow. No pitch or fancy pumps needed.

Pitch does not dictate design. You do.





Asurion HQ

NASHVILLE, TN

Developer: Highwood Properties – Asurion HQ

Architect: Hastings

Engineer: I.C. Thomasson

Type: Office/Education

Size: 565,000 sqft, \$285 million

Completed: 2021

Products: HYDROMAX Siphonic Roof & Overflow Drains

Asurion Gulch Hub is a new headquarters for the global technology company. Situated at a crucial intersection, this new tech campus connects Downtown Nashville and the lower Gulch neighborhood with Midtown and Capitol View. Developed by Highwood Properties, the Gulch Hub is designed to foster productivity, collaboration, and innovation to attract and retain talent while enhancing and engaging the neighborhood and broader community.

Unifying four campuses, the Gulch Hub was designed to provide a horizontal campus in an urban environment. The 550,000 square foot complex is composed of two interconnected buildings, a nine-story north building and an eight-story south building. The two buildings are connected with a shared landscaped podium and sky bridges on the fifth and seventh floors. The two buildings are further connected by a series of terraces.



Designed with HYDROMAX siphonic roof drains to support a wide range of departments and workstyles, the global office offers teams and individuals choice and flexibility.

The office supports over 2,000 employees in spaces that range from large communal gathering spaces and food halls to micro-markets, coffee bars, board and meeting rooms, game room, repair lounge, secure command center and a fitness center.

Biophilic design strategies and access to over 80,000 square feet of outdoor green space improve the wellness of users in and outside the building.





Embry Riddle Aeronautical University – Student Union

DAYTONA BEACH, FL

Developer: Embry Riddle Aeronautical University

Architect: ikon5

Engineer: OCI Associates, Inc.

Type: Education

Size: 177,000 sqft, \$70 million

Completed: 2018

Products: HYDROMAX Siphonic Roof & Overflow Drains

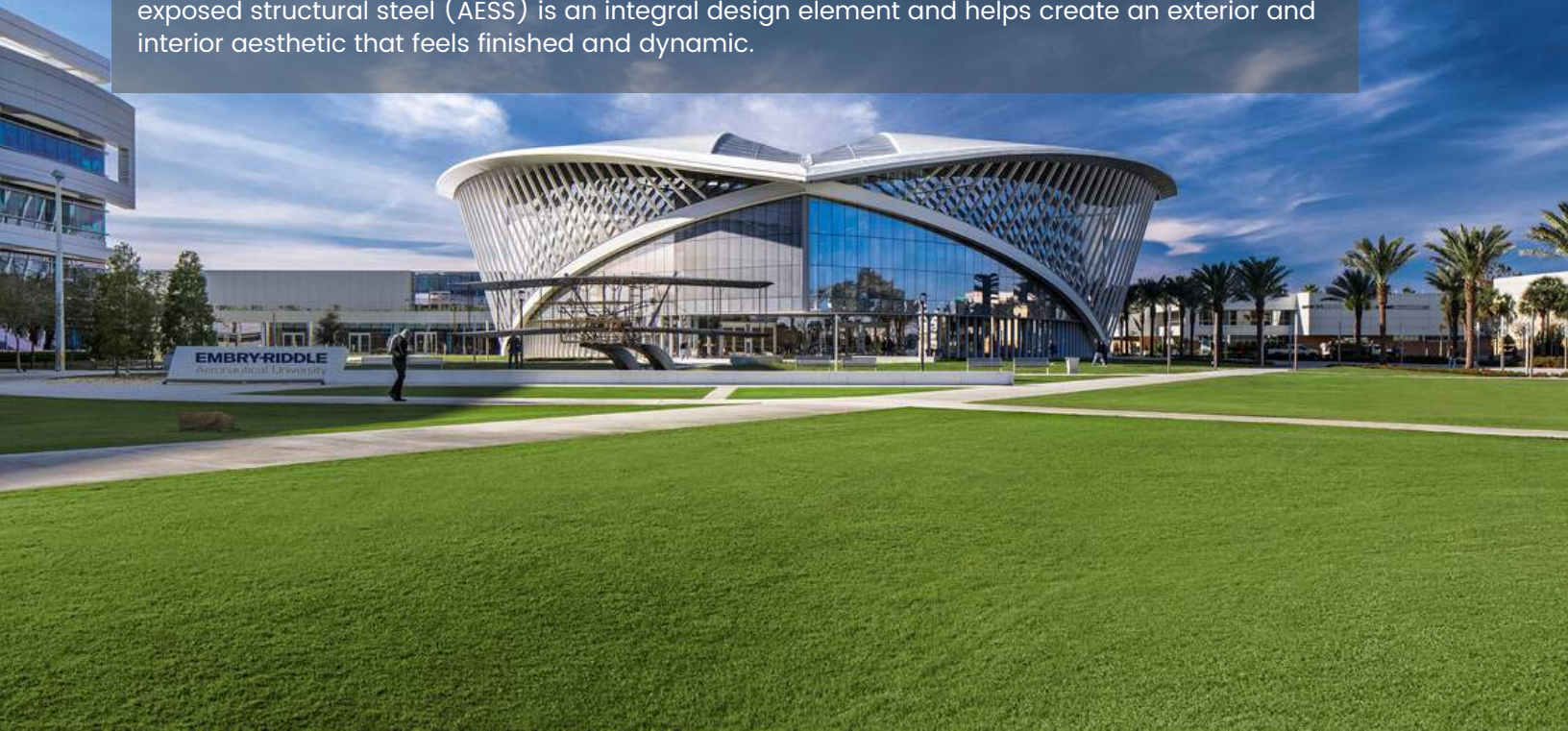
Inspired by the gracefulness of birds in flight, the student union building at Embry-Riddle Aeronautical University is an expression of its mission to teach the science, practice and business of aviation and aerospace. Located at the front door to the campus, the building's gently soaring form expressing flight creates an iconic identity for the University and embodies the student values of fearlessness, adventure and discovery.

Internally, the 177,000 square foot student union building is an aeronautical athenaeum combining social learning spaces, events, dining and the university library. A soaring, triple height commons anchors and integrates the collaborative social and learning interiors. Wrapping this space and open to it are lounges, dining venues, group study rooms, clubs and organizations, career services and the university library as well as an event center, creating a virtual “city within a city”.



Designed with HYDROMAX siphonic roof drains. This curving bowed roof on top of the structure not only provides solar shading from the harsh Floridian sun but also invokes sinuous avian forms. The vertical, exposed struts convey a feather-like quality and are structural members that tie down the curved roof form from wind uplift, particularly, for hurricane resistance.

The great, exposed double arches that wrap the exterior support the vertical roof struts at the shading overhang and signify the main entrances to the building. Internally, an exposed 200-foot curving steel arch bisects the middle of the plan and supports a glass roof above, allowing the students of aviation the ability to look skyward while inside. The building's architecturally exposed structural steel (AESS) is an integral design element and helps create an exterior and interior aesthetic that feels finished and dynamic.





Wexford Science & Tech

PHOENIX, AZ

Developer: Wexford Science & Technology

Architect: HKS

Engineer: Henderson Engineering

General Contractor: Okland Construction

Type: Office/Education

Size: 250,000 sqft, \$77 million

Completed: 2020

Products: HYDROMAX Siphonic Roof & Overflow Drains



NAIOP 2020 Medical Office Project of the Year

The first phase is a new, seven-story, nearly 250,000 square-foot office space and laboratory building seeking LEED certification, with ASU occupying approximately half of the building.

Wexford has previously partnered with universities across the country, including the Wake Forest Innovation Quarter, to create over one million square feet of state-of-the-art LEED Certified lab and office space.



Design freely with HYDROMAX siphonic storm drainage. Less vertical drops and civil connections as pipes run level and flat.

The Wexford Science and Technology partnering with Arizona State University, maximized space and utilized less clearance height with HYDROMAX siphonic roof drains.





Moontower Apts

AUSTIN, TX

Developer: Lincoln Ventures - Moontower Apartments

Architect: Gensler

Engineer: Jordan Skala

General Contractor: JE Dunn

Type: University Apartments

Size: 204,000 sqft

Completed: 2020

Products: HYDROMAX Siphonic Roof & Overflow Drains

Named for the historic moonlight tower landmarks of old Austin, Moontower is an 18-story high-rise student housing community directly across from UT's campus. Moontower was adapted for online learning and reconfigured to help residents build community in a safe, socially distanced way. Amenities include below-ground parking, bedrooms with private bathrooms, rooftop pool, outdoor living space and a spin and yoga studio and gym.

With original art and vintage furnishings inspired by the history of the city, Moontower represents that authentic Austin feel. The eighteen story 204,552-square-foot community features floor plans ranging from studios to five-bedroom apartments.



Moontower offers amenity-rich, contemporary housing steps away from the heart of the University of Texas at Austin campus. The tower features a multi-function lobby, co-working study lounge, fully equipped fitness center, outdoor terrace, and rooftop pool deck, all designed to support and enhance the lifestyle of UT students and young families in Austin.

The U-shaped footprint maximizes rooms with windows and views, and living rooms on corner units feature glazing to celebrate clear, unobstructed views of the UT Tower. The units range from studio to five-bedroom layouts, and the program maximizes the number of private bathrooms, with a nearly 1:1 bed/bath ratio.



Nemours Children's

ORLANDO, FL

Developer: Nemours Children's Hospital

Architect: Stanley Beaman & Sears, Perkins & Will

Engineer: TLC Engineering

Type: Healthcare

Size: 630,000 sqft, \$225 million

Completed: 2012

Products: HYDROMAX Siphonic Roof & Overflow Drains

LEED: Gold



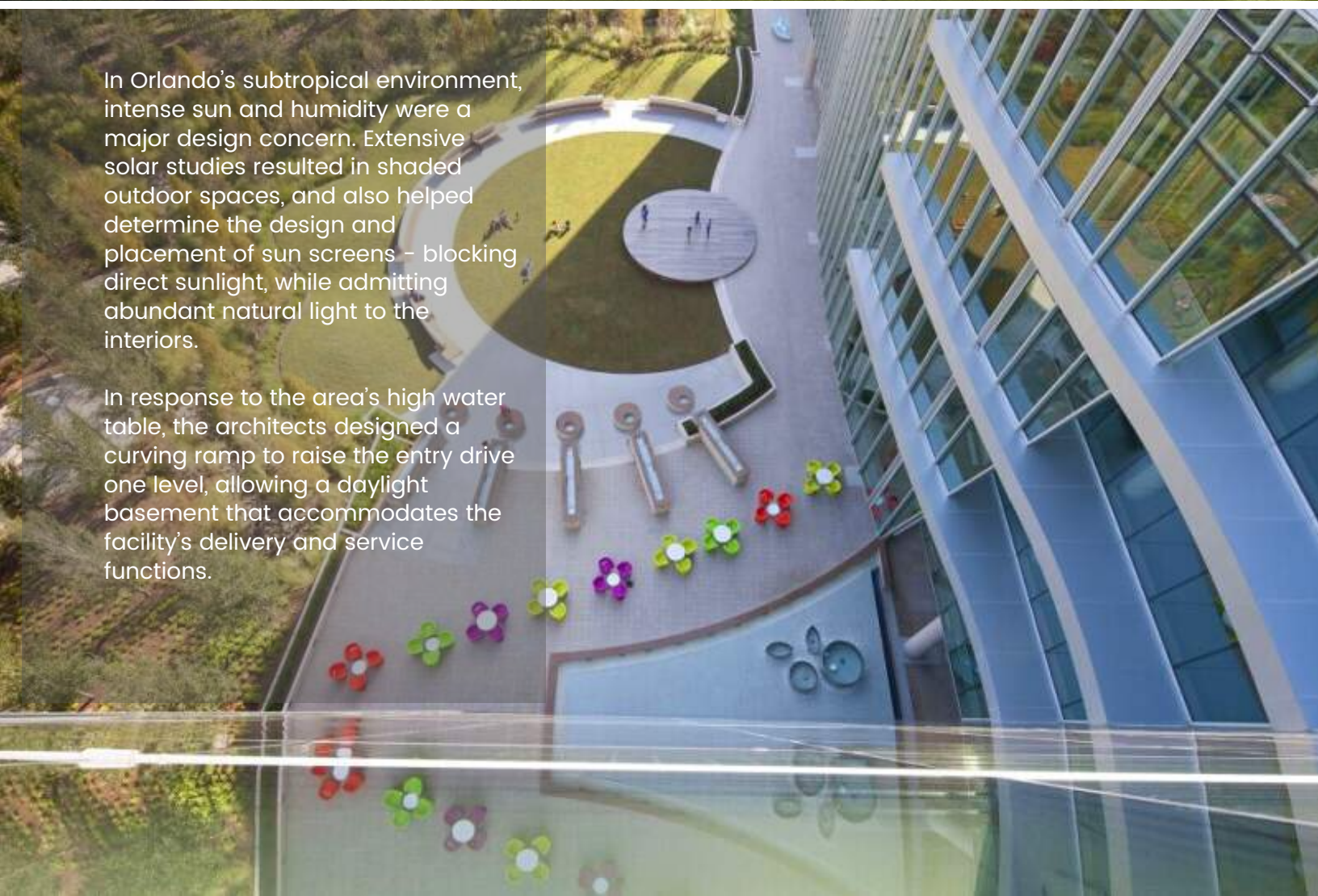
Nemours Children's Hospital, situated in the Lake Nona Medical City mixed-use development in Orlando, Florida, has set a new design standard. The new hospital and grounds are a testament to the term "healing environment" - evoking a life-affirming quality sure to reassure parents and delight children.

The project's 630,000-square-foot, \$260-million facility includes a landscaped entry court, 95 inpatient beds and 76 exam rooms, emergency facilities, a central energy plant and a parking deck. Shell space can accommodate another 32 beds and 24 exam rooms. The master plan anticipates expansion of inpatient and outpatient spaces, as well as additional medical offices, research and support facilities.



In Orlando's subtropical environment, intense sun and humidity were a major design concern. Extensive solar studies resulted in shaded outdoor spaces, and also helped determine the design and placement of sun screens - blocking direct sunlight, while admitting abundant natural light to the interiors.

In response to the area's high water table, the architects designed a curving ramp to raise the entry drive one level, allowing a daylight basement that accommodates the facility's delivery and service functions.





Naperville HS

NAPERVILLE, IL

Developer: Naperville School District 203

Architect: Wight & Company






Engineer: Wight & Company

Type: Education

Size: 172,000 sqft, \$87 million

Completed: 2011

Products: HYDROMAX Siphonic Roof & Overflow Drains

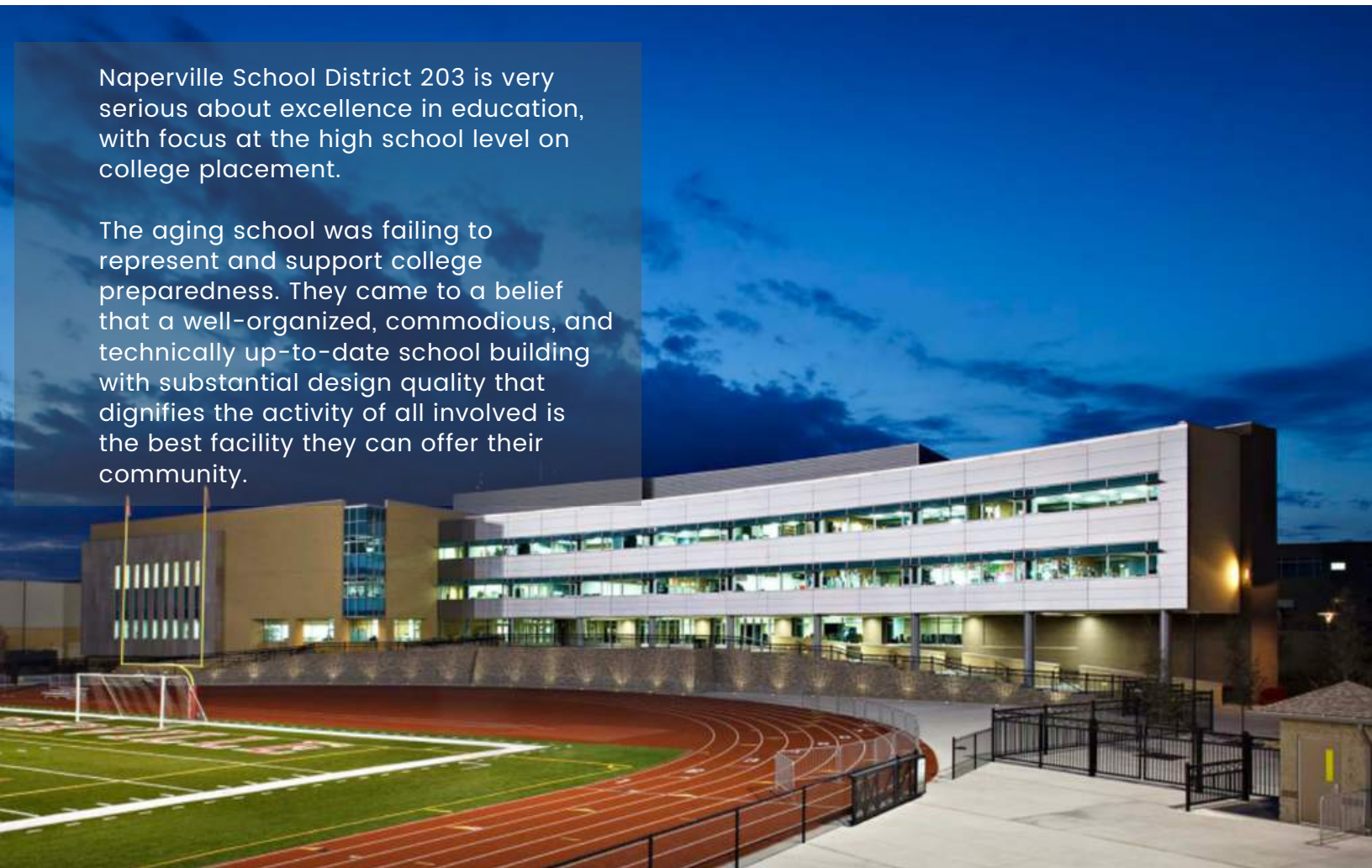
-  2014 High School Citation, American Schools & University Architectural Portfolio
-  2013 Exemplary Design, Educational PK-12, RED Awards Program, Intl Interior Design Assn
-  2012 Merit Award Finalist, Rehab Construction, Chicago Building Congress
-  2012 Grand Prize, Vision Design Award, Floor Focus
-  2011 Honorable Mention, Excellence in the Design of Educational Environments, IASB

The rebuild and renovated Naperville Central High School blends contemporary design elements with its original mid-century modern structure. This transformation turned the district's oldest high school into a vibrant, state-of-the-art learning environment for approximately 3,000 students.



Naperville School District 203 is very serious about excellence in education, with focus at the high school level on college placement.

The aging school was failing to represent and support college preparedness. They came to a belief that a well-organized, commodious, and technically up-to-date school building with substantial design quality that dignifies the activity of all involved is the best facility they can offer their community.





Pembroke Pines Civic Center

PEMBROKE PINES, FL

Developer: Charles F Dodge City Center Pembroke Pines

Architect: Cartaya & Associates

Engineer: Kamm Consulting

Type: Conference/Civic Center

Size: 172,000 sqft, \$58 million

Completed: 2017

Products: HYDROMAX Siphonic & Overflow Drains



2016 Best Civic/Public Project South FL Business Journal Structures



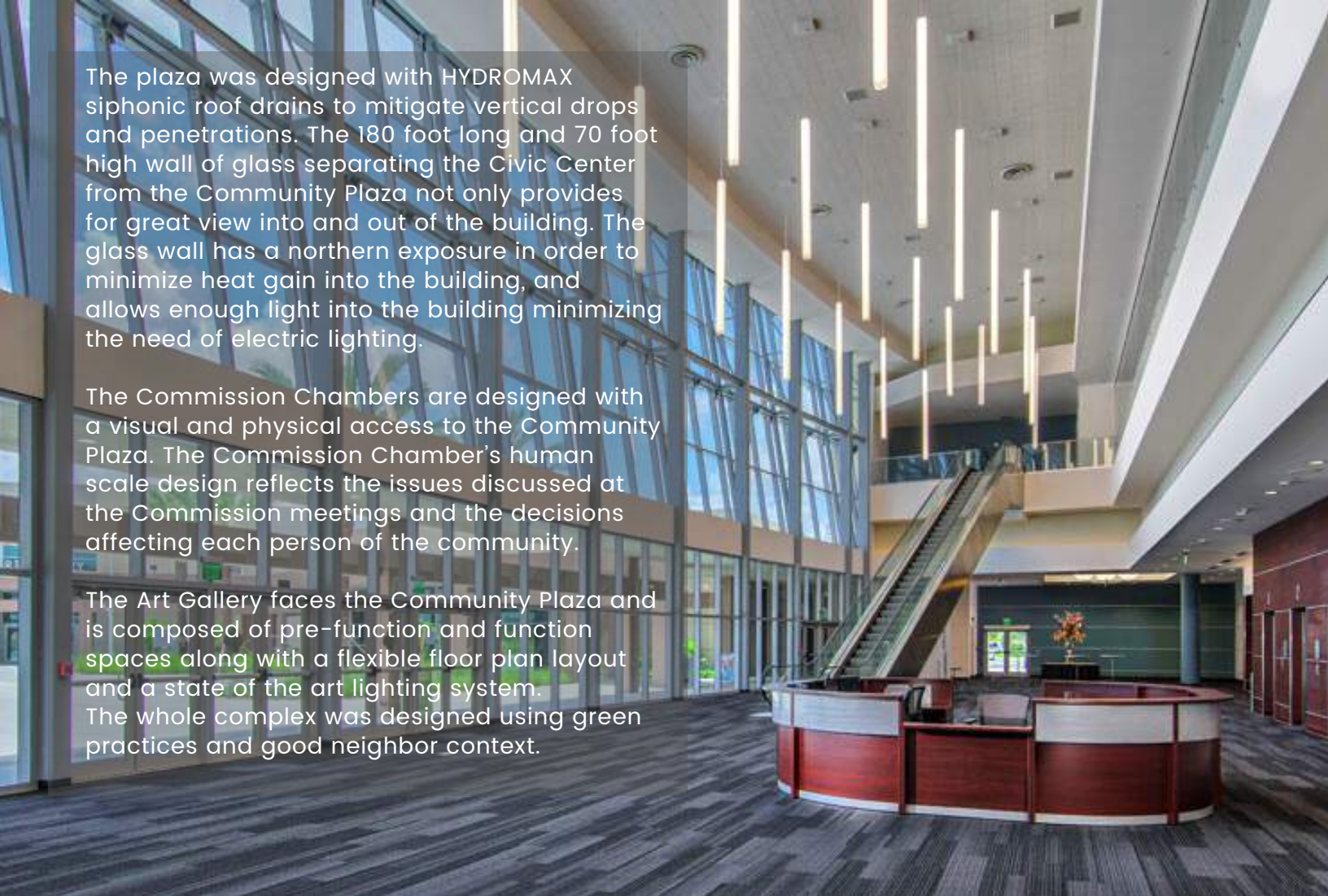
2017 Tilt-Up Achievement

The design includes a 166,895 square foot Civic Center with a 3500 seat acoustically designed Performing Arts / Banquet / Exhibition Grand Hall, a full Service Kitchen, Performing Dressing and Green Rooms, a Grand Lobby, and the Administrative offices for the City. The stand- alone 6,000 square foot Commission Chambers building will serve as the legislative venue for the elected officials. A 10,000 square foot Art Gallery will define the north end of the Complex. These three building surround a multi- media ready Community Plaza where the elected officials and the community can celebrate designated and important times of the year.

The plaza was designed with HYDROMAX siphonic roof drains to mitigate vertical drops and penetrations. The 180 foot long and 70 foot high wall of glass separating the Civic Center from the Community Plaza not only provides for great view into and out of the building. The glass wall has a northern exposure in order to minimize heat gain into the building, and allows enough light into the building minimizing the need of electric lighting.

The Commission Chambers are designed with a visual and physical access to the Community Plaza. The Commission Chamber's human scale design reflects the issues discussed at the Commission meetings and the decisions affecting each person of the community.

The Art Gallery faces the Community Plaza and is composed of pre-function and function spaces along with a flexible floor plan layout and a state of the art lighting system. The whole complex was designed using green practices and good neighbor context.



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HYDROMAX Drains | Primary MH-300, Overflow MH-301, Gutter MH-305-G

