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### A Letter from the Chairman & Executive Director





In 2016, the Public Building Commission of Chicago (PBC) focused on streamlining operations and realigning the organizational structure to deliver projects more efficiently to the taxpayers of Chicago.

Our efforts were successful. The PBC completed nearly \$185M in capital improvement projects in 2016. These projects included four new annexes and two newly constructed schools on behalf of Chicago Public Schools that have helped ease overcrowding and increase access to technology, critical learning resources and amenities at schools across the entire city.

In addition, our work has helped to further the Chicago Public Library's investment in early childhood learning environments. In 2016, the PBC completed renovations at the Little Village and West Pullman branch

libraries, while the Thomas Hughes Children's Library renovation project at Harold Washington Library Center is on track to be completed within the second quarter of 2017.

The PBC also completed nearly \$15M in technology and infrastructure improvements on behalf of the Office of Emergency Management and Communications, to help improve public safety while increasing network capabilities and communications.

We are proud of the modern buildings, renovations and infrastructure we have delivered on behalf of our clients. The work we do helps to strengthen our neighborhoods, create jobs and has a direct economic impact on the communities surrounding the projects.

As we move forward, striving to be an exemplary agency for future development, we are pleased to provide you with this Year in Review that illustrates the accomplishments achieved in 2016.

We hope you will enjoy learning about the projects we have completed for our clients and the diverse communities in which we have worked. Thank you for your support as we look ahead to a promising 2017.

Sincerely,

Mayor Rahm Emanuel, Chairman

Ralm Emance

Carina E. Sánchez, Executive Director

# Board of Commissioners

and construction.

Greater Chicago.

successor is named.



Mayor Rahm Emanuel Chairman

The Public Building Commission of Chicago is an independent agency formed in 1956 to oversee the construction and renovation of municipal buildings, facilities and infrastructure. The PBC can manage every aspect of project development, from land acquisition through planning, design

Forest Preserve District of Cook County and

the Metropolitan Water Reclamation District of

The Chairman, with the advice and consent of the City Council, appoints the remaining five members who represent labor, commerce, clergy and the community. Board members are appointed for a five-year term or until a



Martin Cabrera, Jr. City of Chicago



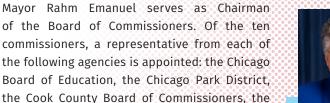
Frank M. Clark Board of Education



**Thomas J. Kotel** City of Chicago



José G. Maldonado, Jr. City of Chicago



Toni Preckwinkle Cook County



Arnold Randall Forest Preserves of Cook County



**Jesse H. Ruiz** Chicago Park District



**Samuel Wm. Sax** City of Chicago



Mariyana T. Spyropoulos Metropolitan Water Reclamation District of Greater Chicago



Reverend David Todd Whittley City of Chicago

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# **Community Engagement**

Beyond the physical projects we develop, public engagement continues to be a priority for the PBC. In 2016, PBC representatives attended community, assist agency and various outreach events, providing presentations about our role in the development process and project overviews.

These outreach meetings are an essential part of our work and offer residents, community stakeholders and service providers the opportunity to participate in discussions as we begin to shape our upcoming projects.



The PBC has city resident and community area hiring requirements with each of our construction projects. That means 50% of the total construction hours worked on a project must come from city of Chicago residents. In addition, at the outset of a project, the PBC defines the community area, usually the neighborhood and immediate surrounding areas. Residents of that community must make up at least 7.5% of the total construction hours worked on a project.

As a result of these initiatives, 1,155 of the individuals employed on projects completed in 2016 were city residents, earning \$12,935,945 in wages & benefits.



### **General Contractor Prequalification**

We are continuing our successful track record of providing contracting opportunities to emerging businesses and creating jobs for residents of Chicago.

In adopting a series of inclusive initiatives, we have opened our doors more widely to the entire business community, whether they are just starting out or already established, so all grow and succeed together.

- In 2016, the PBC issued a Request for Qualifications for General Contractors. 63 licensed General Contractors (including eleven MBE, four WBE and three MBE/WBE contractors) were prequalified to bid on PBC projects. This is a first for a municipal entity and other agencies are looking to utilize our model.
- The PBC has hosted a number of pre-submission conferences and contractor workshops to offer in-depth information on what potential contractors should expect during and throughout the bidding, contracting and reporting process.
- On the professional service side, we conducted extensive outreach to minority architect and engineering organizations to increase participation in these fields.
- ▶ The PBC revised the aspirational goals for our construction contracts that increased Minority and Women Owned Business participation from 24% to 26% for MBE firms and from 4% to 6% percent for WBE firms.









# **Minority and Women Owned Business Participation**

The PBC promotes competitive business opportunities for Minority and Women Business Enterprises (MBE/WBE) in our delivery of both construction and professional services. We believe that Chicago will reach its full potential when its diverse populations are represented at the business table and when every hardworking citizen with the drive and desire to succeed in their chosen occupation has a pathway to success.

Our contract provisions encourage the employment of minority and female apprentices, journey workers, and laborers on projects, thereby increasing access to work opportunities, skill development and better wages for traditionally underutilized populations of the local labor force.

Projects completed in 2016 total \$143,239,965.66 as paid to date. These projects have achieved:

**29.89%** (\$42,809,019.25) MBE Participation

**7.72%** (\$11,062,148.53) WBE Participation





\$9,445,716.81 has been paid to professional administrative service contracts in 2016:

**48.03%** (\$4,536,651.66) MBE Participation

**5.0%** (\$472,516.97) WBE Participation

# **Economic Sustainability**

While the new, renovated and upgraded facilities we developed with our clients offer long-term benefits to our neighborhoods, our projects have also had a broader impact on the communities we serve.

3,138 people earned more than \$31.5M working on PBC projects completed in 2016. Many of these people are residents of the community areas where the projects were built.

This illustrates that PBC projects create meaningful economic impact opportunities for communities in which they are developed.

In addition, the PBC utilizes contract provisions that help ensure the dollars produced by these projects are spread throughout Chicago's companies and, most importantly, its people.

# **Cost Effective Project Development**

We are committed to delivering cost efficient projects on behalf of our clients. The PBC works in close concert with our user agencies to develop project approaches that meet both their mission and financial programming goals. Throughout the development of a project, we provide budget and cost information to managers, clients, commissioners and other stakeholders.

### **Program Cost Performance**

The PBC's total budget authority for capital construction and infrastructure projects completed in 2016 was nearly \$200M. At year's end, the actual cost for these projects is trending at \$5.2M under the current budgets, including a limited number of scope changes.

The PBC's total multi-year program authority for capital construction completed and in development since 2011 exceeds \$1.79B. These projects are trending under budget by 8.4%, representing a variance of \$151M under the current budgets.

#### **Change Management Effectiveness**

approved and projected changes is 3.3%.

Effective change management is critical to meeting the cost objectives of the PBC and our clients. The current approved change order percentage for capital construction projects completed in 2016 is 2.3%. In addition to approved change orders, the PBC also monitors projected changes, including those currently in process for approval. At year's end, the change order percentage for both

This percentage is representative of effective approaches to change management, including renovation scopes, which typically have a higher change order percentage than new construction.





# Walter Payton College Preparatory High School Annex

1034 North Wells Street: 27<sup>th</sup> Ward Architect of Record: Koo & Associates General Contractor: Paschen/Milhouse JV III



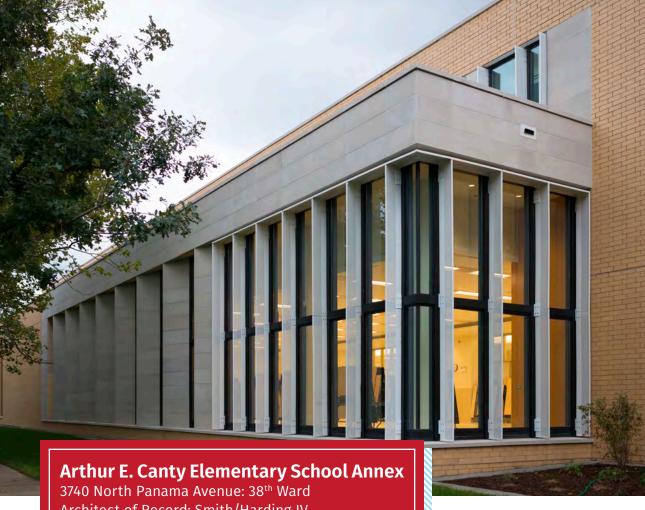
Nestled within the Near North side of Chicago, this \$20M annex broadens the range of educational opportunities for our future leaders. The three-story 49,000 square foot annex includes 14 classrooms featuring dedicated spaces for art and music, special education, dance and driver's education. In addition, the annex features a multipurpose black-box theatre, a gymnasium with locker facilities, a fitness room and a student lounge. The renovations in the existing building included various classrooms and office modifications.

518 workers earned more than \$3.1M in wages & benefits

24.8% MBE Participation

4.4% WBE Participation





3740 North Panama Avenue: 38<sup>th</sup> Ward Architect of Record: Smith/Harding JV General Contractor: Friedler Construction

Located in the Dunning Community, this twostory 38,000-squarefoot annex provides



more classroom space to strengthen the school's curriculum, affording greater opportunities to students. The \$17.3M project includes a music room, computer lab, five pre-kindergarten classrooms, a lunch/multi-purpose room and kitchen. The existing school's kitchen was repurposed into a classroom while a play lot has been installed and the existing modular units have been removed.





409 workers earned more than \$2.9M in wages & benefits

24.4% MBE Participation

9.3% WBE Participation







4815 South Karlov Avenue: 14th Ward

Architect of Record: STL

Construction Manager: Berglund Construction

Located in the Archer Heights community, the PBC completed the three-story 50,000 square foot annex that has brought a modern, light-filled building to a century-old school that was in need of more space, renovations and upgrades. The new annex includes 24 classrooms featuring art and music rooms, as well as a kitchen and dining/multipurpose room that doubles as an activity space. In addition, two modular units were removed and a new playground and turf field have been installed. In 2017, the PBC continues structural renovations and upgrades to the existing building for a total project investment of \$41M.

366 workers earned more than \$3.7M in wages & benefits

31.8% MBE Participation

8.4% WBE Participation



Working at Edwards was one of the best work experiences I've had on a construction job. I didn't have to get up so early to get to work because since I was working in the neighborhood, there was no traffic. Even though I was only a few minutes away, the neighbors would save me parking spots, give me water and sometimes food. If someone on the construction team needed to move their car, they would let me know.

I'm happy that I was a part of the team that helped to build the school's new lunchroom. I have friends whose kids attend the school and they really needed the new space."

Janet Mercado Flagger and Laborer for 10 years



able to work only five minutes from home. I have twins in first grade and they both go to this school. I never thought that I would be working on a school that my kids go to. I have been able to tell all my coworkers about the little stores in the area where they can get supplies or lunch, and the shop owners have welcomed the extra business. My kids are loving all the improvements that we have done to the school; as a matter of fact, they use the turf field almost every day. It feels good to work on a project that is benefitting the neighborhood that I live in."

Manuel Cervantes Laborer for 16 years





Located in the West Ridge community, this \$16.9M annex seamlessly joins the two buildings to provide new and renovated learning spaces for students. The threestory 36,000 square foot annex is comprised of 16 classrooms including science and music classrooms, a lunch/multipurpose room, kitchen and administrative offices. In addition, the project features interior renovations to the existing school, a new play lot, turf field and landscaping. The previously existing modular units were removed.





494 workers earned more than \$5.1M in wages and benefits

24.7% MBE participation

3.8% WBE participation







# **Southeast Area Elementary School**

3930 East 105<sup>th</sup> Street: 10<sup>th</sup> Ward Architect of Record: SMNG-A

General Contractor: Sollitt/Oakley JV



Chicago's East Side neighborhood welcomed the newly constructed \$38.5M 111,000 square foot building which features 54 classrooms including three computer labs, three science classrooms, two flexible classrooms, two music rooms, kitchen and dining facilities, a gymnasium, library and administrative offices. Exterior amenities include an artificial turf field, a play lot and a parking lot. The entire facility is fully accessible to people with disabilities and has the capacity of up to 1,200 students.

603 workers earned more than \$6M in wages & benefits

> 25.1% MBE Participation

> 9.4% WBE Participation



# Robert J. Richardson Middle School

6018 South Karlov Avenue: 23<sup>rd</sup> Ward Architect of Record: STR Partners General Contractor: K.R. Miller



community, this newly constructed \$48M, 135,000-square-foot middle school houses 68 classrooms including rooms for art and music, science and computer labs, kitchen and dining facilities, a gymnasium, a library and administrative offices. Exterior amenities include an artificial turf field, which was completed in advance of the new building to support athletic programs at neighboring schools.



I've been a laborer for a long time, and I typically have to travel 45 minutes in traffic in order to get to work. But I can be here in less than fifteen minutes if I drive. When I finished my work on installation of the turf field I thought I would be off this job. But I got lucky and was able to move to working on the building,

which was really needed in the area.

The building is turning out to be really pretty. I have two little cousins that will go to this school and I keep telling them that they are lucky to be going to a brand new building that I'm helping to

Ruben Navarret Laborer for 19 years

construct."

I live a half of block from Richardson and it's nice to see a building going up that's going to benefit the entire community. One of the biggest advantages of this job was being able to walk home for lunch. I'm going to hate to see this one end. I have neighbors whose kids will go to this school when it opens, and it's good to see tax money going to something that will make it better for future generations. So when I walk past this building in the future, it will be good to know that I was a part of it."

Joe Smarzewski Painter for 20 years

# **Wildwood World Magnet School: Room Renovation & Intercom Repair**

6950 North Hiawatha Avenue: 41st Ward Architect of Record: Ilekis Associates General Contractor: Robe, Inc.

Located in the Forest Glen community. Wildwood's renovation project was PBC's first opportunity to utilize our new prequalified general contractors. Robe, Inc was the succesful bidder, and won their first contract with the PBC, and for the first time we awarded a class



'C' contractor a prime general contractor. This Wildwood project consisted of the conversion of a faculty room to a classroom in the new annex, completed by the PBC in 2015 (pictured above right) and intercom repair in the legacy building.

# **Early Learning Educational Investments**

Little Village Branch 2311 South Kedzie Avenue West Pullman Branch 830 West 119th Street 34th Ward

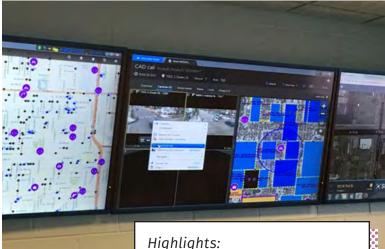


The PBC was excited to support the Mayor's 2016 goal to provide access to quality early education programming year round. Construction began immediately at the conclusion of the summer reading program with

substantial completion in four weeks. To highlight the improvement, Chicago Public Library ordered new early learning equipment and furniture for each branch.

# **Technology & Infrastructure**





The PBC completed a variety of projects for client agencies to help improve public safety and increase network capabilities and communications.

### **Projects included:**

- ShotSpotter®: Expanded the ShotSpotter® gunshot detection system used by the Chicago Police Department to cover the entire 7th (Englewood) and 11th (Harrison) police districts. The \$938,500 investment is part of CPD's continued effort to fight gun violence through intelligence-led and technology-based policing.
- Ashland Avenue Traffic Signal Priority (TSP) and Cameras:
   Coordination with CDOT and CTA to verify network and
   procure/install City bus TSP equipment at 39 Ashland
   intersections; camera installation at 37 intersections.
- CPD License Plate Recognition: Installation of 18 LPR systems in CPD patrollers.
- Lakeshore Fiber North: Extension of the fiber optic backbone from Fullerton to Addison along Lake Shore Drive; addition of 16 cameras along Lakefront Park.

• 126 new cameras

- 213 replacement cameras
- 300+ cameras/PODS repaired
- · 1,200+ repair cases managed





Pictured, clockwise from top left: Ward installation of crime deterrent security camera; Shotspotter® gunshot detection system; Security cameras at La Villita Park; LPR system installed on a CPD patroller



32.03% MBE
Participation

5.1% WBE Participation The PBC completed the demolition, backfill and site remediation of the former Malcolm X College in preparation for the Chicago Blackhawks new practice facility and Rush University Medical Center's future development.



# **Sustainable Development**

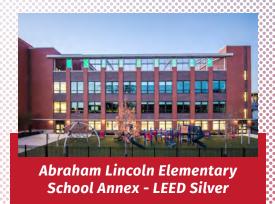
The PBC is committed to improving the environmental quality of life for all Chicagoans. As a developer of public facilities, the PBC has a unique and comprehensive approach to environmental stewardship and sustainability. The PBC's commitment to sustainable development is integrated into every project the agency manages.

The PBC targets as a minimum LEED Silver certification for all of its projects, but often exceeds that level. Due in large part to PBC's commitment to green building, the City of Chicago leads the nation in municipally owned LEED-certified municipal buildings with 95 facilities, 75 of which were developed by the PBC.

At the close of 2016, PBC has achieved LEED certification on the following facilities:

- ▶ 35 public schools
- ▶ 15 branch libraries
- 8 park facilities
- ▶ 6 firehouses
- 4 police stations
- ► 7 other municipal buildings, including the Daley Center

Projects that achieved LEED certification in 2016:







### **Harvest Metrics**

The true measure of success of the PBC's sustainability policies is found in how our work impacts our environment. In 2016, we reported the following outcomes:



\$70,902,120

recycled materials used to date



\$123,684,675

regional materials (extracted, processed & manufactured within 500 miles) used to date



94.74%

waste diverted from landfills (201,485 tons to date)



24,751,679

gallons of potable water saved per year



\$1,595,658

annual energy savings in PBC projects citywide

# 2016 Awards and Recognition

### American Institute of Architects & American Library Association

Library Building Award: Chicago Public Library, Chinatown Branch (April)

### **Chicago Association of Realtors**

Good Neighbor Award: Chicago Public Library, Albany Park Branch (May)

#### Chicago Building Congress/Construction Owners Association of America

Owner's Choice Award: Chicago Children's Advocacy Center (May)

### **Chicago Building Congress**

Merit Award: Chicago Public Library, Chinatown Branch (May)

#### **Building Design + Construction Magazine**

Building Team Award - Gold: Chicago Public Library, Chinatown Branch (May)

#### Urban Land Institute, Chicago Chapter

Public Investment Vision Award: Chicago Public Library, Chinatown Branch (June)

### US Green Building Council, Illinois Chapter

Intent to Matter Green Building Innovation Award: Chicago Public Library, Chinatown Branch (June)

### American Library Association & International Interior Design Association

Best of Competition Award: Chicago Public Library, Chinatown Branch (June)

#### Design-Build Institute of America

National Award of Merit - Civic/Assembly: Chicago Public Library, Chinatown Branch (July)

#### International Federation of Library Associations & Institutions

Systematic – Public Library of the Year (Finalist): Chicago Public Library, Chinatown Branch (August)

#### American Institute of Architects & American Library Association

Award of Excellence - Distinguished Accomplishment in Library Architecture: Chicago Public Library, Chinatown Branch (August)

#### Wired Magazine

"Settle into 10 of the Most Beautiful Libraries on Earth" (#7): Chicago Public Library, Chinatown Branch (September)

#### **Association of Licensed Architects**

Award of Merit: Chicago Children's Advocacy Center, Abraham Lincoln Elementary School Annex (October)



### **A Look Ahead**



As we celebrate with our partners the successes of 2016 and the positive impact our work has had on the communities, we remain focused on the range of work underway in 2017.

In 2017, we anticipate projects to upgrade CTA garage facilities. In addition, we are looking forward to new and exciting capital improvement projects with the Chicago Park District, Chicago Public Library and the City Colleges of Chicago.

We are also working with the Chicago Public Schools on several projects that are currently in the planning and design phase. As with past CPS projects, these new projects will provide students with additional space for computer and science labs; art and music rooms; kitchen and dining facilities; libraries and theaters; gymnasiums and administrative offices. Exterior amenities, in most cases, involve the installation of green space, play lots and off street parking.

In addition, PBC's technology and infrastructure programs that have helped expand and enhance security networks are underway, along with innovative energy efficiency initiatives aimed at providing improved energy use and cost savings at cityowned buildings and the Metropolitan Water Reclamation District of Greater Chicago.

All of the projects that we undertake in 2017 will represent examples of the PBC's commitment to provide great public buildings and public spaces that foster sustainability within our communities.

### PBC Project Completions: 2011–2016

#### 2011

Adam Clayton Powell, Jr. Paideia Academy

**Dunning Area Branch Library** 

Engine Company 109 Firehouse

George W. Collins High School Renovation

Greater Grand Crossing Branch Library and Comer Family Reading Garden

Gwendolyn Brooks College Preparatory Academy Additions

Haas Park Fieldhouse

John W. Garvy Elementary School Addition

Little Village Branch Library

Marvin Camras Elementary School Renovation

Mt. Greenwood Elementary School Linked Annex

The Ogden International School of Chicago

Richard M. Daley Branch Library

Sauganash Elementary School Addition

South Shore International College Preparatory High School

Sulzer Regional Library Renovation

Woodson Regional Library Renovation

### 2012

12th District Police Station

31st Street Harbor

Air Force Academy Renovation

Charles R. Henderson Elementary School Renovation

Douglas Park Artificial Turf

Durkin Park Elementary School Linked Annex

Edgebrook Elementary School Addition

Engine Company 16 Firehouse

Ferdinand Peck Elementary School Renovation

Henry D. Lloyd Elementary School Artificial Turf

Humboldt Park Library Addition and Renovation

Iames Shields Middle School

Josefa Ortiz de Dominguez Elementary School Artificial Turf

Michael Reese Hospital Demolition

Ramova Theater Stabilization

Rosenblum Park Redevelopment

Sarah E. Goode STEM Academy

South Shore High School Demolition

William J. Onahan Elementary School Linked Annex

### 2013

2013 School Investment Program (98 CPS schools)

Adlai E. Stevenson Elementary School Linked Annex

Back of the Yards Campus: CPS College Preparatory High School and CPL Branch Library

Edgewater Branch Library

Edison Park Elementary School Linked Annex

Enrico Tonti Elementary School Modular

Everett McKinley Dirksen Elementary School Modular Josephine C. Locke Elementary School Modular

Lake View High School Renovation

Leonard Louie Fieldhouse

Little Village Elementary School Modular

Mary Lyon Elementary School Modular

Nathan Hale Elementary School Linked Annex

Thomas J. Higgins Community Academy Renovation

William Jones College Preparatory High School

William P. Gray Elementary School Modular

#### 2014

Albany Park Branch Library

Alexander Graham Bell Elementary School Addition

John C. Coonley Elementary School Addition

Stock Yards National Bank Building Stabilization

William Jones College Preparatory High School Renovation

### 2015

Abraham Lincoln Elementary School Annex

Chicago Children's Advocacy Center Addition

Chicago Public Library YOUmedia Renovations (3 CPL libraries)

Chicago Public Schools Air Conditioning Program (35 CPS schools)

Chicago Vocational Career Academy Renovation

Chinatown Branch Library

Dunne Technology Academy Modernization

Enrico Tonti Elementary School Modular

Lindblom Math & Science Academy Parking Lot

Mt. Greenwood Elementary School Modular

Oriole Park Elementary School Annex

Retrofit One (60 public buildings)

Turf Field at National Teachers Academy

Wildwood World Magnet School Annex

Woodson Regional Library Interior Renovation

### 2016

Arthur E. Canty Elementary School Annex

Chicago Public Library Early Learning Educational Investments (2 CPL libraries)

Malcolm X College Demolition Project

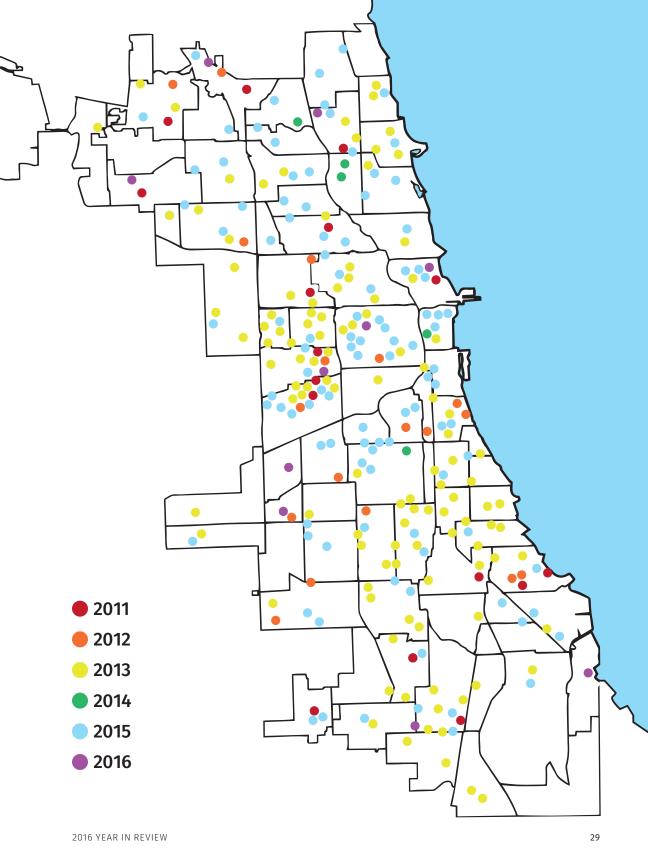
Minnie Mars Jamieson Elementary School Annex Richard Edwards IB - Fine & Performing Arts Dual

Language School Annex

Robert J. Richardson Middle School Southeast Area Elementary School

Walter Payton College Preparatory High School Annex

Wildwood World Magnet School: Faculty Room Renovation & Intercom Repair



# **PUBLIC BUILDING COMMISSION**

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