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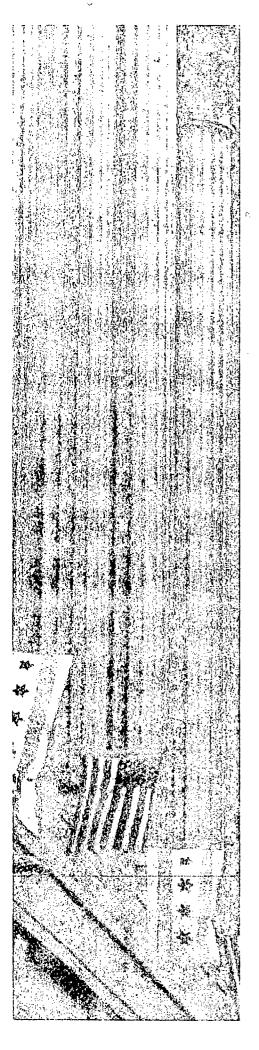
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Report

Audit by Office of Inspector General regarding Chicago Department of Transportation and Aldermanic Menu Program Unit



# **OFFICE OF INSPECTOR GENERAL** *City of Chicago*



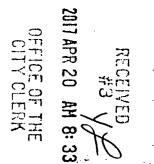
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# **Report of the Office of Inspector General:**

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# CHICAGO DEPARTMENT OF TRANSPORTATION ALDERMANIC MENU PROGRAM AUDIT

**APRIL 2017** 



866-IG-TIPLINE (866-448-4754) www.chicagoinspectorgeneral.org



# **OFFICE OF INSPECTOR GENERAL** *City of Chicago*

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April 19, 2017

To the Mayor, Members of the City Council, City Clerk, City Treasurer, and residents of the City of Chicago:

The City of Chicago Office of Inspector General (OIG) has completed an audit of the Chicago Department of Transportation's (CDOT) Aldermanic Menu Program (Menu). Through this program, the City gives each alderman control of \$1.32 million annually to fund residential infrastructure projects in their ward, including street and alley resurfacing, street lighting, speed humps, and sidewalk replacement.

OIG found that the administration of the Menu program does not align with best practices for infrastructure planning put forth by the Government Finance Officers Association (GFOA). This audit identified significant concerns related to the City's planning and management of residential infrastructure. For example, we determined that the allocation of \$1.32 million per ward bears no relationship to the actual infrastructure needs of each ward. In addition to an overall citywide funding gap, we concluded that the allocation of Menu funds resulted in significant ward-to-ward funding disparities, including a funding disparity relative to need of \$9.3 million between the best- and worst-funded wards. These findings are deeply troubling and point to serious systemic issues in the City's residential infrastructure planning which disproportionately affect certain parts of the City.

To address these concerns, OIG recommends that CDOT fully inhabit its role in residential infrastructure planning by directly implementing a comprehensive, multi-year strategic capital plan for maintenance and improvement. This plan should meet GFOA best practices or comparable industry standards, such as those suggested in OIG's 2015 CDOT Pavement Management Audit. While aldermen and constituents should be encouraged to provide input on residential infrastructure needs within their wards during the planning process, CDOT's infrastructure professionals are best positioned to create long-term plans and make cost-effective decisions on where and how to allocate the City's limited infrastructure resources.

In its response to the audit, CDOT did not address OIG's concerns related to the lack of longterm planning for residential infrastructure, nor did management provide any corrective actions to address the funding disparities between wards. Rather, the Department reasserted its general but analytically unsupported belief that current practice provides an "appropriate framework" for addressing core residential infrastructure needs. We do not agree. Responsible management of taxpayer dollars requires that the City take a comprehensive, long-term strategic approach to residential infrastructure planning, and Chicago's financial concerns make it all the more urgent that the City adhere to this fundamental principle of good governance. We thank CDOT and the Office of Budget and Management for their cooperation during this audit.

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Respectfully,

Joseph M. Ferguson Inspector General City of Chicago

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# Acronyms

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Menu	Aldermanic Menu Program
CCM	Chicago Department of Transportation Construction Management
CDOT	Chicago Department of Transportation
CIP	Capital Improvement Program
CSR	City of Chicago 311 Customer Service Requests System
DWM	Department of Water Management
GFOA	Government Finance Officers Association
ADA	Americans with Disabilities Act
OBM	Office of Budget and Management
OIG ·	Office of Inspector General
POD	Police Observation Device
TIF	Tax Increment Financing

### I. <u>EXECUTIVE SUMMARY</u>

The Office of Inspector General (OIG) conducted an audit of the Chicago Department of Transportation's (CDOT) Aldermanic Menu Program (Menu), a sub-program of the Neighborhood Infrastructure Capital Improvement Program (CIP), which is the City's primary means of residential infrastructure management. The objectives of this audit were to determine,

- whether the City adequately addresses residential infrastructure needs for all wards through effective planning and funding; and
- whether CDOT effectively manages Menu projects through a uniform process.

OIG found that, by relying on Menu for residential infrastructure improvements, such as streets, alleys, sidewalks and lighting, the City does not follow best practices for multi-year capital planning, and that Menu, together with other smaller funding mechanisms, does not provide adequate funding to meet the City's residential infrastructure needs.<sup>1</sup> In 2015, Menu funding provided approximately \$228.8 million less than the estimated amount needed citywide, and the City's practice of allocating equal funds to each ward, without consideration of specific needs, resulted in a \$9.3 million disparity in funding relative to need between the best- and worstfunded wards. The City allocated an additional \$27.6 million to residential infrastructure through other programs included in the Neighborhood Infrastructure CIP-such as New Street Construction and Sidewalk Construction—and the Department of Water Management (DWM) conducted residential street restoration following water and sewer main work. Based on available data for 2015, OIG estimates that this DWM work may reduce the unfunded need for residential street resurfacing by no more than \$78.3 million. However, DWM street restoration projects are not prioritized based on the condition of the streets, but rather, based on the age and condition of the water mains beneath them. Taken together, the other Neighborhood Infrastructure subprograms and DWM street restoration work address some citywide residential infrastructure needs yet still leave a gap of \$122.9 million citywide.

We also found that in the years 2012 through 2015, the City allowed aldermen to designate \$15.1 million of Menu funds for projects unrelated to core residential infrastructure improvements.<sup>2</sup> Furthermore, in 2014, the City permitted aldermen to spend Menu funds on projects located outside of the wards they represented at the time and within their yet-to-be-effectuated future ward boundaries. When aldermen designate Menu funds for projects unrelated to core residential

<sup>&</sup>lt;sup>1</sup> CDOT uses the Illinois Department of Transportation's functional classifications of roadways to distinguish residential from arterial streets (see <u>http://www.cmap.illinois.gov/documents/10180/97401/FunctionalClassGuidebook.pdf/327d0751-44f7-4f9a-a0e3-e0655df633a3</u> and <u>http://www.gettingaroundillinois.com/gai.htm?mt=fc</u>)</u>. During OIG's 2015 audit of CDOT's pavement management program, CDOT stated that, in general, arterial streets have centerline striped markings, exist at every half mile interval of road network, and have significantly higher traffic relative to residential streets. See page 4 of the audit available at <u>http://chicagoinspectorgeneral.org/wp-content/uploads/2015/12/CDOT-Pavement-Management-Audit.pdf</u>.

<sup>&</sup>lt;sup>2</sup>In this report, "core residential infrastructure" refers to the basic Menu elements described in the City's CIP such as streets, alleys, curbs, sidewalks, speed humps, and lighting. See City of Chicago, OBM, "2015-2019 Capital Improvement Program," pdf page 4, accessed December 12, 2016, <u>http://www.cityofchicago.org/content/dam/city/depts/obm/supp\_info/CIP\_Archive/2015%20-%202019%20Capital%20Improvement%20Program.pdf</u>.

infrastructure or located outside their elected ward boundaries, it undermines CDOT's ability to meet the City's basic residential infrastructure needs.

Finally, the City did not enforce Menu deadlines. For instance, starting in 2012, CDOT and the Office of Budget and Management (OBM) requested that aldermen program at least 80% of their project dollars by June 30<sup>th</sup> in order to allow engineers to schedule site visits, plan for construction, and complete projects on time. In 2014, only 31 of the 50 aldermen met the deadline. CDOT noted it has no effective method of enforcing this deadline.

In light of these findings, OIG recommends that CDOT assume direct responsibility for residential infrastructure planning by implementing a comprehensive, long-term strategic capital plan aligned with industry best practices. Centralizing planning in CDOT would allow the City to coordinate citywide allocation of resources to address residential infrastructure needs.

If the City chooses to continue to rely on aldermen to conduct City planning, CDOT should nevertheless complete a thorough analysis of citywide residential infrastructure, and the City should ensure that sufficient funding is allocated to address the condition of infrastructure in each ward. Additionally, CDOT should ensure that Menu funding is allocated only to core residential infrastructure projects. Finally, CDOT should ensure that all aldermen limit themselves to projects located within boundaries of the wards to which they were elected, and that they meet applicable submission deadlines.

In response to the audit, CDOT disagreed with OIG's finding and recommendation concerning the citywide funding gap for residential infrastructure and the ward-by-ward funding disparity. The Department stated that "CDOT believes that the current decision-making structure for improvements to neighborhood infrastructure provides the appropriate framework and cost effective analysis and will continue to work with Aldermen to program their Menu funds in the manner that most benefits the city and their neighborhoods." CDOT offered no corrective action related to this finding.

CDOT also disagreed with OIG's recommendations concerning Menu spending on projects unrelated to core residential infrastructure improvements. CDOT management stated that "Menu funding uses may include what the OIG refers to as 'non-core residential items,' as long as the proposed use does not violate the rules and regulations of the funding sources." CDOT offered no corrective action related to this finding.

Finally, CDOT did agree with OIG's finding concerning program deadlines and the application of ward boundaries. CDOT stated that "Menu programming will be limited to aldermen's current ward, going forward."

CDOT's entire response to each finding is included in the "Findings and Recommendations" section of this report.

## II. <u>BACKGROUND</u>

CDOT's mission is to,

keep the city's surface transportation networks and public way safe for users, environmentally sustainable, in a state of good repair and attractive, so that its diverse residents, businesses, and guests all enjoy a variety of quality transportation options, regardless of ability or destination.<sup>3</sup>

The Capital Improvement Program (CIP) is the City's infrastructure spending "blueprint" which details planned projects related to "the physical improvement or replacement of City-owned infrastructure and facilities."<sup>4</sup> The City's 2015-2019 CIP describes planned funding for \$1.8 billion in infrastructure projects, including projects related to both residential and arterial street and alley construction, streetscaping, bridge and viaduct improvements, and bicycle and pedestrian safety programs. <sup>5</sup> CDOT administers the City's capital improvements to the local street system (residential streets, alleys, sidewalks, and lighting) through the Neighborhood Infrastructure program within the CIP.<sup>6</sup> The Neighborhood Infrastructure program in the 2015-2019 CIP totals \$581.1 million, and the majority of Neighborhood Infrastructure program funds are allocated to the Menu sub-program. The City allocated \$423.0 million to Menu for the years 2015 through 2019.

As described in the City's 2015-2019 CIP, Menu gives aldermen "the option of selecting capital improvement of streets, alleys, curbs, sidewalks, and traffic calming, depending on their local infrastructure needs. The Menu option also includes traffic signal modernization, alley lighting, streetlight upgrades and replacement."<sup>7</sup> Each year, OBM allocates \$84.0 million to Menu. This amount includes \$66.0 million for project execution (\$1.32 million for each of the 50 wards), \$6.0 million for design costs, and \$12.0 million for subsidized ramps that meet Americans with Disabilities Act (ADA) guidelines.<sup>8</sup> According to OBM, the annual per-ward allocation has been

%202019%20Capital%20Improvement%20Program.pdf.

%202019%20Capital%20Improvement%20Program.pdf.

<sup>&</sup>lt;sup>3</sup> City of Chicago, CDOT, "Mission," accessed December 12, 2016, <u>http://www.cityofchicago.org/city/cn/depts/cdot/auto\_generated/cdot\_mission.html</u>.

<sup>&</sup>lt;sup>4</sup> City of Chicago, OBM, "Capital Improvement Program," accessed December 12, 2016, <u>https://www.cityofchicago.org/city/en/depts/obm/provdrs/cap\_improve.html</u>

<sup>&</sup>lt;sup>5</sup> City of Chicago, OBM, "2015-2019 Capital Improvement Program," pdf page 11, accessed December 12, 2016, <u>http://www.cityofchicago.org/content/dam/city/depts/obm/supp\_info/CIP\_Archive/2015%20-</u>

<sup>&</sup>lt;sup>6</sup> City of Chicago, OBM, "2015-2019 Capital Improvement Program," pdf page 4, accessed December 12, 2016, <u>http://www.cityofchicago.org/content/dam/city/depts/obm/supp\_info/CIP\_Archive/2015%20-</u> <u>%202019%20Capital%20Improvement%20Program.pdf</u>.

<sup>&</sup>lt;sup>7</sup> City of Chicago, OBM, "2015-2019 Capital Improvement Program," pdf page 4, accessed December 12, 2016, http://www.cityofchicago.org/content/dam/city/depts/obm/supp\_info/CIP\_Archive/2015%20-

<sup>&</sup>lt;sup>8</sup> Each year, the first five streets selected for resurfacing in each ward receive a subsidy to pay for 100% of the cost of sidewalk ramps compliant with  $\Lambda DA$ . Streets after the first five receive a 50% subsidy to cover this cost. This subsidy is funded out of \$12 million carmarked each year specifically for the installation of ADA ramps.

fixed at \$66.0 million for at least the last ten years. Prior to that, OBM allocated \$60 million annually (\$1.2 million to each ward). According to the CIP, 2015 marked Menu's 20<sup>th</sup> year.<sup>9</sup>

In addition to Menu, the Neighborhood Infrastructure CIP includes several other sub-programs that address neighborhood infrastructure needs each year. In 2015, funding allocated to the other Neighborhood Infrastructure sub-programs for streets, alleys, lighting, and sidewalks totaled \$27.6 million.<sup>10</sup>

Finally, the Department of Water Management (DWM) is currently in the midst of a large-scale water and sewer main replacement program projected to end in 2022.<sup>11</sup> DWM is responsible for restoring streets following the installation of water and sewer mains.<sup>12</sup> DWM's water and sewer main replacement program reconstructs a portion of citywide residential streets but does not address the funding needs of other residential infrastructure components, such as alleys, sidewalks, and street lights.

According to CDOT, the 2014 Menu proceeded in the typical manner as outlined below:

- 1. In the spring, the Mayor, and CDOT and OBM, sent letters to the aldermen explaining the role of Menu in the broader context of infrastructure and providing price estimates for residential infrastructure projects.<sup>13</sup>
- 2. In their letter, CDOT and OBM provided a list of projects and estimated costs. They asked each alderman to select projects totaling up to \$1.5 million for CDOT to survey.<sup>14</sup> CDOT engineers completed the requested surveys, and the Department provided the projected costs to aldermen. CDOT referred to projects that aldermen selected to be surveyed as "primaried projects."
- 3. Before aldermen selected projects for CDOT to survey, CDOT and OBM briefed the aldermen and their staffs on Menu, providing briefing packets that included complaint

%202019%20Capital%20Improvement%20Program.pdf.

<sup>&</sup>lt;sup>9</sup> City of Chicago, OBM, "2015-2019 Capital Improvement Program," pdf page 8, accessed December 12, 2016, <u>http://www.cityofchicago.org/content/dam/city/depts/obm/supp\_info/CIP\_Archive/2015%20-</u> <u>%202019%20Capital%20Improvement%20Program.pdf.</u>
<sup>10</sup> Another Neighborhood Infractmention with a second for the second secon

<sup>&</sup>lt;sup>10</sup> Another Neighborhood Infrastructure sub-program for "other neighborhood improvements" totaled \$36.1 million in 2015, of which \$31.0 million was for the Albany Park Stormwater Diversion Tunnel and \$2.1 million was for ADA ramps on arterial streets. City of Chicago, OBM, "2015-2019 Capital Improvement Program," 93-94, accessed December 12, 2016, <u>http://www.cityofchicago.org/content/dam/city/depts/obm/supp\_info/CIP\_Archive/2015%20-</u> %202019%20Capital%20Improvement%20Program.pdf.

<sup>&</sup>lt;sup>11</sup> City of Chicago, OBM, "2015-2019 Capital Improvement Program," pdf page 9, accessed December 12, 2016, http://www.cityofchicago.org/content/dam/city/depts/obm/supp\_info/CIP\_Archive/2015%20-

<sup>&</sup>lt;sup>12</sup> According to DWM management, DWM restores half the street—from the curb to the median—following water main replacements, while sewer main replacements require a full restoration of the street from curb to curb.

<sup>&</sup>lt;sup>13</sup> See Appendix A for the full text of the 2014 Menu letters.

<sup>&</sup>lt;sup>14</sup> CDOT engineers conducted two types of surveys for Menu projects. For projects other than street resurfacing, <u>CDOT conducted "tablet surveys</u>," which required site visits to estimate project costs. Beginning in 2014, CDOT began conducting "turbo surveys" for street resurfacing projects, which entailed estimating project costs based on satellite images of streets. According to CDOT, the turbo surveys allowed engineers to provide quick and reasonable estimates of project costs without conducting site visits. CDOT engineers stated that turbo surveys are more efficient than previous surveying methods.

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data from the City of Chicago 311 Customer Service Requests System (CSR) regarding infrastructure concerns, as well as maps identifying potential projects in each ward.

- 4. Each alderman narrowed his or her primaried projects lists to stay within the \$1.32 million limit. CDOT referred to these final selections as "programmed projects."
- 5. Work on the programmed projects began in late spring, and continued through the summer and fall, weather permitting.

### III. OBJECTIVES, SCOPE, AND METHODOLOGY

### A. Objectives

The objectives of this audit were to determine,

- whether the City adequately addresses residential infrastructure needs for all wards through effective planning and funding; and
- whether CDOT effectively manages Menu projects through a uniform process.

### B. Scope

This audit reviewed the 2014 and 2015 Menu processes, with a specific focus on CDOT's administration of the program and the allocation of funds. Our analysis of funding by ward focused on 2015 Menu data provided by CDOT. This ward-by-ward analysis did not include other sources of funding outside of Menu, such as Tax Increment Financing (TIF),<sup>15</sup> other neighborhood infrastructure funds, or street restoration work resulting from water and sewer, gas, electric, or telecommunication projects. However, other funds are addressed in the discussion of our audit findings to provide context for Menu.

Other CDOT programs not included in this analysis include improvements to bridges, major streets, railroads, traffic signals, intersection safety, transit, or bicycle and pedestrian safety.

This audit did not evaluate CDOT's overall pavement management program, which was the focus of a separate OIG audit issued in December 2015,<sup>16</sup> nor did it evaluate how individual aldermen prioritized Menu projects within their wards. This audit also did not assess whether CDOT and OBM ensured that projects funded through Menu satisfied the applicable restrictions of the bond issue that funds the program.

### C. Methodology

To assess how effectively CDOT addresses residential infrastructure needs, OIG conducted interviews with CDOT and OBM to gain an understanding of Menu and to determine if funding for the program adequately met residential infrastructure needs. Through these interviews, we learned that neither department had analyzed the adequacy of Menu funding to meet citywide residential infrastructure needs. Having discovered the absence of such analysis, OIG developed an estimate of annual need by ward. First, we identified the infrastructure components common to an average residential block, including street resurfacing, sidewalk replacements, curb and gutter replacements, street lighting, and speed humps.<sup>17</sup> We discussed the components of an average residential block with CDOT, then divided CDOT's 2015 average cost per component per block (see Appendix C) by CDOT's longest expected life cycle range for each component,

<sup>&</sup>lt;sup>15</sup> Some of the funding for other Neighborhood Infrastructure sub-programs comes from TIF.

<sup>&</sup>lt;sup>16</sup> City of Chicago, OIG, "Chicago Department of Transportation Pavement Management Audit," December 2015, accessed December 12, 2016, <u>http://chicagoinspectorgeneral.org/wp-content/uploads/2015/12/CDOT-Pavement-Management-Audit.pdf</u>.

<sup>&</sup>lt;sup>17</sup> Components per block may vary for any given residential block. OIG's estimates are based on the components found on a "typical" residential block listed in Appendix C.

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and totaled all resulting annualized costs.<sup>18</sup> This gave us the total cost of maintaining an average block in 2015. We performed a similar calculation for alleys, using the average costs for alley resurfacing, alley speed humps, and alley aprons. We then multiplied the per block cost by the total number of residential blocks for each ward, and the per alley cost by the total number of alleys for each ward. Finally, we added the residential block and alley totals to arrive at an estimate of the annual funds needed to replace residential infrastructure in each ward in a manner sufficient to keep pace with deterioration.

In evaluating the City's funding for residential infrastructure, OIG did not include certain types of maintenance activities, like pothole filling and crack sealing, because these activities are targeted repairs rather than replacements of entire residential infrastructure components included in our analysis (as discussed in Appendix C).

We also compared GFOA's guidelines for multi-year capital planning to CDOT's Menu process to determine if the City met recommended best practices.

To assess CDOT's administration of Menu, OIG interviewed CDOT management and staff involved in the program. We also reviewed CDOT Construction Management (CCM) data related to project completion to determine which projects programmed in 2014 were also completed in 2014. Finally, we reviewed a sample of 2014 CCM data from five wards to determine if CDOT ensured that aldermen selected Menu projects located within their thencurrent ward boundaries.

To calculate Menu spending unrelated to core residential infrastructure needs, OIG reviewed the City's Menu reporting for the years 2012 through 2015, and identified the *Miscellaneous Other Projects*, and the *Chicago Park District* and *Chicago Public Schools* programs, as well as the Police Observation Device (POD) cameras purchased with Menu funds and the *Miscellaneous CDOT Projects* with descriptions sufficient to determine that they were unrelated to core residential infrastructure.

# D. Standards

We conducted this audit in accordance with generally accepted Government Auditing Standards issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions based on our audit objectives.

### E. Authority and Role

The authority to perform this audit is established in the City of Chicago Municipal Code § 2-56-030 which states that the Office of Inspector General has the power and duty to review the programs of City government in order to identify any inefficiencies, waste, and potential for

<sup>&</sup>lt;sup>18</sup> CDOT provided OIG with a life cycle range for each component. We used the longest life cycle to estimate the most optimistic scenario for residential infrastructure. This means that under less than ideal conditions, infrastructure would likely require repair sooner than we estimated, and costs would increase accordingly.

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misconduct, and to promote economy, efficiency, effectiveness, and integrity in the administration of City programs and operations.

The role of OIG is to review City operations and make recommendations for improvement.

City management is responsible for establishing and maintaining processes to ensure that City programs operate economically, efficiently, effectively, and with integrity.

### **IV. <u>FINDINGS AND RECOMMENDATIONS</u>**

# Finding 1: Menu, which serves as the City's primary residential infrastructure program, underfunds residential infrastructure needs and results in significant funding disparities relative to need between wards.

Based on pricing in the 2015 Menu and CDOT's component life cycle data, OIG estimated that the City's residential infrastructure needs total \$312.8 million annually. Menu, however, provides only \$84.0 million per year, leaving a gap of approximately \$228.8 million in citywide need that is only partially met through other sources. Furthermore, current Menu practice, which allocates an equal dollar amount to each ward without accounting for differences in residential infrastructure needs, results in a significant disparity in unmet need between wards.

In 2015, in addition to Menu, the City allocated \$27.6 million to residential infrastructure through other Neighborhood Infrastructure sub-programs that address streets, alleys, lighting, and sidewalks.<sup>19</sup> DWM also conducted street restoration following water and sewer main work, as described in the Background section of this report. Based on available data for 2015, OIG estimates that this DWM work may reduce the funding deficit for residential street resurfacing by as much as \$78.3 million.<sup>20</sup> It should be acknowledged, however, that DWM street restoration projects are not prioritized based on the condition of the streets, but rather, based on the age and condition of the water mains beneath them. Taken together, the Neighborhood Infrastructure programs and conservative DWM street restoration estimate reduce the total unmet need by \$105.9 million, leaving a gap of \$122.9 million citywide.

Millions of Dollars
\$312.8
(\$84.0)
(\$27.6)
(\$78.3)

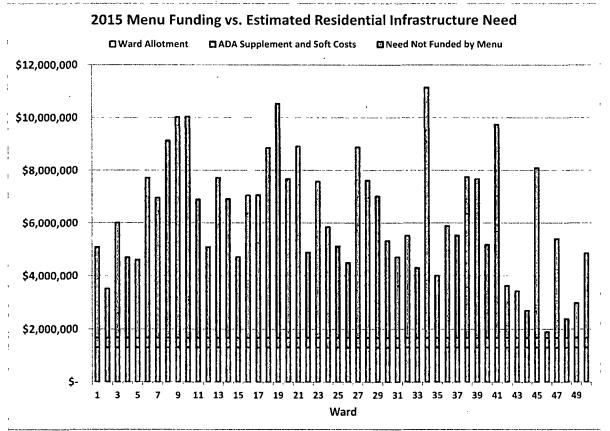
The City allocates \$1.32 million in Menu funds for each ward, regardless of its size and the amount of infrastructure in need of replacement. Therefore, wards with more miles of residential

<sup>&</sup>lt;sup>19</sup> The \$27.6 million total includes the allocations for the Alley Construction, Lighting, New Street Construction, Residential Street Resurfacing, and Sidewalk Construction sub-programs in the 2015 Neighborhood Infrastructure CIP. These sub-programs are included because they represent residential infrastructure components considered in OIG's calculation. This total does not include the sub-program designated "Other Neighborhood Improvements"— which was \$36.1 million in 2015—because the projects in that sub-program do not address the residential infrastructure components included in OIG's calculation.

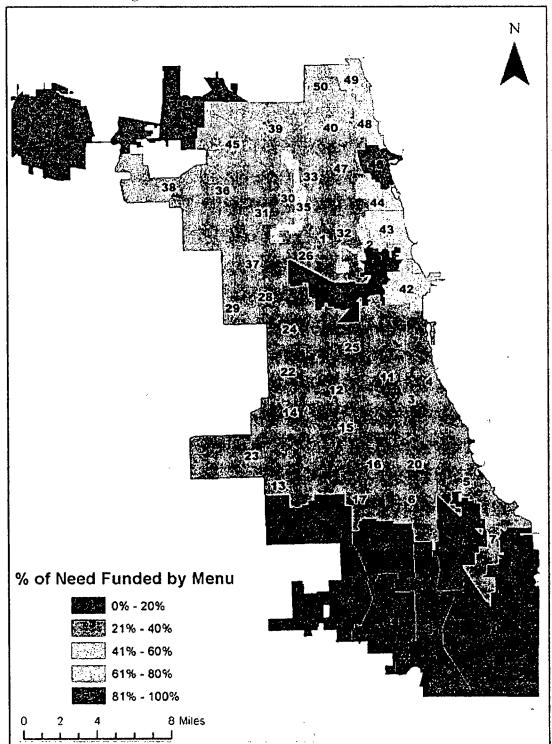
<sup>&</sup>lt;sup>20</sup> OIG attempted to determine the monetary value of DWM's residential street restoration work in order to identify how much it addresses the unmet need for residential street restoration. However, the City does not keep this data in a format that is sufficiently detailed and readily available for analysis. Based on the available information, OIG estimates that DWM spent between \$37.8 and \$78.3 million on street restoration in 2015.

roads and alleys receive a substantially lower percentage of Menu funding required to maintain that infrastructure. In 2015, this resulted in a funding disparity relative to need of \$9.3 million between the best- and worst-funded wards. OIG estimates that the best-funded ward  $(46^{th})$  received 88.5% of necessary funding from Menu (\$218,563 less than necessary), while the worst-funded ward  $(34^{th})$  received only 15.1% (\$9.5 million less than necessary). Those wards where Menu funding falls significantly short of meeting need must pursue other sources, such as TIF, for residential infrastructure improvements.

The green columns in the chart below show the standard \$1.32 million in annual Menu funding per ward. The blue columns show ADA supplemental funding and soft costs, a total of \$18 million citywide, broken out on a per ward basis. In practice, these funds vary based on which projects are selected. The red columns show the additional residential infrastructure needs not funded through Menu. The map on the next page illustrates the percentage of each ward's estimated residential infrastructure need that was funded by Menu in 2015.







## 2015 Menu Funding as a Percent of Residential Infrastructure Needs

Source: OIG calculations based on CDOT project life cycle data and 2015 Menu pricing.

Menu does not reflect best practices for governmental capital planning issued by the Government Finance Officers Association (GFOA). GFOA is a non-profit membership organization of public finance officials whose mission is to "enhance and promote the professional management of governmental financial resources by identifying, developing, and advancing fiscal strategies, policies, and practices for the public benefit."<sup>21</sup> In 2006, GFOA issued a best practice advisory that describes the four basic steps of multi-year capital planning.<sup>22</sup> identify needs; determine costs; prioritize capital requests; and develop financing strategies.<sup>23</sup> GFOA recommends that a multi-year capital planning process should begin with the identification of needs and the determination of the cost to fulfill them. CDOT, however, stated that it does not perform comprehensive, long-term analysis to determine annual residential infrastructure needs. OBM sets the budget amount for the CIP and Neighborhood Infrastructure sub-programs including the Menu according to the practicability of the budget for the City. OBM stated that it does not seek input from CDOT regarding estimated residential infrastructure needs, and that Menu has received the same annual allocation of \$84.0 million for at least the past ten years because that is what the City could afford. The increasing cost of projects and this stagnant funding level mean that the actual buying power of Menu funds has declined substantially over time.

Furthermore, CDOT did not follow capital planning best practices to identify and prioritize projects. The Department stated that it assisted aldermen in project prioritization by providing them with CSR complaint data and a list of streets that were rated poor or very poor during CDOT's 2014-15 visual inspection of residential street conditions.<sup>24</sup> But CDOT did not include other types of information that GFOA recommends, such as "development projections, strategic plans, comprehensive plans, facility master plans, [and] regional plans," nor did the Department focus on "[c]apital assets that require repair, maintenance, or replacement that, if not addressed, will result in higher costs in future years."<sup>25</sup> Instead, project prioritization was subject to aldermanic discretion, and some aldermen, as discussed in Finding 2 below, chose to prioritize projects that were unrelated to their wards' residential infrastructure needs of streets, alleys, sidewalks, or lighting.

GFOA recommends that, after identifying needs and determining costs, governments should prioritize projects in a manner designed to ensure that limited resources are used most effectively.<sup>26</sup> While GFOA recommends that the prioritization process take into account "input and participation from major stakeholders and the general public,"<sup>27</sup> Menu's reliance on aldermanic discretion diminishes the ability and responsibility of CDOT experts to plan and

See Appendix B for the full text of the advisory.

<sup>&</sup>lt;sup>21</sup> GFOA, "About GFOA," accessed December 12, 2016, <u>http://gfoa.org/about-gfoa</u>.

<sup>&</sup>lt;sup>22</sup> The GFOA advisory defines capital planning to encompass "buildings, infrastructure, technology, and major equipment." GFOA, "Multi-Year Capital Planning Best Practice," February 2006, accessed December 12, 2016, http://www.gfoa.org/multi-year-capital-planning.

<sup>&</sup>lt;sup>24</sup> City of Chicago, OIG, "Chicago Department of Transportation Pavement Management Audit," 13, December 2015, accessed December 12, 2016, http://chicagoinspectorgeneral.org/wp-content/uploads/2015/12/CDOT-Pavement-Management-Audit.pdf.

GFOA, "Multi-Year Capital Planning Best Practice," February 2006, accessed December 12, 2016, http://www.gfoa.org/multi-year-capital-planning.

GFOA, "Multi-Year Capital Planning Best Practice," February 2006, accessed December 12, 2016, http://www.gfoa.org/multi-year-capital-planning.

GFOA, "Multi-Ycar Capital Planning Best Practice," February 2006, accessed December 12, 2016, http://www.gfoa.org/multi-year-capital-planning.

prioritize projects over time. The annual, rather than multi-year, cycle of Menu decision-making precludes CDOT and OBM from developing a comprehensive long-term strategy to address residential infrastructure needs that meets the recommended planning timeframe of "at least three years, preferably five or more."<sup>28</sup> Long-term planning and citywide coordination of resources depend on CDOT's infrastructure professionals exercising their expertise to maximize efficiency and cost savings. This finding is consistent with OIG's conclusion, in a December 2015 audit, that CDOT's pavement management program, which includes residential streets, did not align with "[Federal Highway Administration] guidelines for an empirically-based, network-level, long-term pavement management strategy," and that "Menu was a decentralized approach, directed by insufficient data and aldermanic discretion." In the 2015 audit, OIG recommended that CDOT experts should be responsible for "pavement preservation techniques, collecting reliable condition data on a routine basis, developing a proactive preventive maintenance strategy," and that the same principles should apply to both residential and arterial infrastructure.<sup>29</sup>

## **Recommendation:**

The City's 2015-2019 CIP designates CDOT as the administrator of the Neighborhood Infrastructure CIP, including Menu. To allow CDOT to fully inhabit that role, we recommend that the Department's infrastructure professionals be fully responsible for analysis and decision-making regarding residential infrastructure maintenance and improvement on residential streets, alleys, sidewalks and lighting. This responsibility should include adhering to the four basic steps of multi-year capital planning—identifying needs, determining costs, prioritizing capital requests, and developing financing strategies with the assistance of OBM. While aldermen and their constituents may provide input, CDOT should have the authority to make the final determination of the most cost-effective strategies for maintaining the City's infrastructure. Furthermore, CDOT should incorporate residential infrastructure planning into a comprehensive, long-term strategic effort consonant with industry best practices.

# Management Response:

"CDOT believes that the current decision-making structure for improvements to neighborhood infrastructure provides the appropriate framework and cost effective analysis and will continue to work with Aldermen to program their Menu funds in the manner that most benefits the city and their neighborhoods. This position is consistent with CDOT's response to the OIG 'CDOT Pavement Management Audit' (OIG File #14-0625). Each location submitted on an Alderman's Menu is reviewed for conditions and need by CDOT engineers. CDOT will exclude a location if the construction is not warranted. Additionally, CDOT will continue to work within the current total CIP and Menu framework and provide Aldermen with analysis using industry best practices and applicable guidelines to make informed decisions for their communities. CDOT will also continue to complete residential street pavement condition

<sup>&</sup>lt;sup>28</sup> GFOA, "Multi-Year Capital Planning Best Practice," February 2006, accessed December 12, 2016, <u>http://www.gfoa.org/multi-year-capital-planning.</u>

<sup>&</sup>lt;sup>29</sup> City of Chicago, OIG, "Chicago Department of Transportation Pavement Management Audit," 14, December 2015, accessed December 12, 2016, <u>http://chicagoinspectorgeneral.org/wp-content/uploads/2015/12/CDOT-Pavement-Management-Audit.pdf</u>.

assessments on a routine basis and to provide Aldermen with the relevant condition data they need to make informed decisions.

"To assist Menu decision-making, CDOT presents each alderman a capital improvement map at their annual improvement meeting. Additionally, CDOT's new construction management database (CCM) and an electronic map (DOTMaps) are provided to Aldermen. DOTMaps presents all past, present and future permitted infrastructure and utility projects and street PCI survey data. This enables Aldermen to review and identify Menu projects within their ward. CDOT staff also encourages Aldermen to submit their proposed selections in a timely manner in order for projects to be surveyed, designed, cost estimated and scheduled to meet seasonal construction deadlines. CDOT believes that the existing system for the determination of neighborhood infrastructure projects provides a thorough and cost effective process to deliver improvements at locations which are in need of repair and are desired by the public.

"It should also be noted that several wards have embraced the Participatory Budget Program through PB Chicago. PB Chicago is a partnership between University of Illinois at Chicago's Great Cities Institute and the Participatory Budgeting Project. Since 2012, PB Chicago has worked with residents, public officials, and partner organizations to democratically determine how to spend millions of dollars to benefit their communities. By engaging stakeholders in the decision-making process for the allocation of public funds, PB Chicago empowers city residents and gives them a voice in their neighborhood infrastructure.

"CDOT believes the four steps of multiple year capital planning outlined by OIG are effectively accomplished in the overall CIP, including the current Menu program. The Menu Program assists Aldermen to annually identify their communities' needs and provide baseline costs for projects. CDOT's Project Coordination Office provides a multiple year review for each proposed Menu project and all proposed infrastructure and utility improvements within the Ward. CDOT then coordinates these multiple year CIP funded projects and provides a holistic and efficient approach to each Alderman and citizens of the Ward. Then Aldermen utilizing CDOT's information, analysis and PCO review to prioritize their community's needs and determine the best multiple year funding strategies for these projects. Finally, the CIP uses the four step approach each year when it assesses funding levels for the various programs."

# Finding 2: In the years 2012 through 2015, the City permitted aldermen to designate \$15.1 million of Menu funds for projects unrelated to core residential infrastructure.

In the four years from 2012 through 2015, the City allowed aldermen to designate \$15.1 million in Menu funds for projects unrelated to core residential infrastructure. The projects in question were either not listed in the Menu catalog (i.e., they were "off-menu") or were in the catalog but fell outside of CDOT's jurisdiction (e.g., POD cameras, which fall under the auspices of the Office of Emergency Management and Communications). The following chart breaks down these projects.

	2012	2013 <sup>11</sup>	1 20141 <sup>28</sup>	. 2015 <sup>94</sup> 0 (	Sectional way
Chicago Park District	\$1,934,025	\$2,767,984	\$1,818,811	\$2,379,847	\$8,900,667
Miscellaneous <sup>34</sup>	963,284	940,652	587,385	848,693	3,340,014
Chicago Public Schools <sup>35</sup>	187,270	587,148	971,002	256,750	2,002,170
Cameras <sup>36</sup>	231,409	276,018	185,023	177,566	870,016
Total	\$3,315,988	\$4,571,802	\$3,562,221	\$3,662,856	\$15,112,867

The four categories presented in this chart cover the following goods and services:

# Off-Menu Non-Core Residential Infrastructure

- Chicago Park District artificial turf, playgrounds, basketball courts, spray pools, and multi-year investments in park improvements.
- Miscellaneous new trees, murals, artwork, decorative garbage cans, designer bike racks, flower baskets, library carpet replacement, and community gardens.

 <sup>&</sup>lt;sup>30</sup> City of Chicago, Capital Improvement Program, "Aldermanic Menu Program, 2012 Program," accessed December 12, 2016, <u>http://www.cityofchicago.org/content/dam/city/depts/obm/general/Ward%20Detail%20-%20Desc%20of%20work%20for%202012%20-%20Wards(1-50).pdf</u>.
 <sup>31</sup> City of Chicago, Capital Improvement Program, "Aldermanic Menu Program, 2013 Program," accessed

 <sup>&</sup>lt;sup>31</sup> City of Chicago, Capital Improvement Program, "Aldermanic Menu Program, 2013 Program," accessed December 12, 2016, <u>http://www.cityofchicago.org/content/dam/city/depts/obm/general/Ward%20Detail%20-%20Desc%20of%20work%20for%202013%20-%20Wards(1-50).pdf</u>.
 <sup>32</sup> City of Chicago, Capital Improvement Program, "Aldermanic Menu Program, 2014 Program," accessed

<sup>&</sup>lt;sup>32</sup> City of Chicago, Capital Improvement Program, "Aldermanic Menu Program, 2014 Program," accessed December 12, 2016, <u>http://www.cityofchicago.org/content/dam/city/depts/obm/general/Ward%20Detail%20-%20Desc%20of%20work%20for%202014%20-%20Wards(1-50).pdf</u>.

 <sup>&</sup>lt;sup>33</sup> City of Chicago, Capital Improvement Program, "Aldermanic Menu Program, 2015 Program," accessed December 12, 2016,

http://www.cityofchicago.org/content/dam/city/depts/obm/supp\_info/CIP\_Archive/Aldermanic%20Menu/WardDeta il2015.pdf.

<sup>&</sup>lt;sup>34</sup> The Miscellancous category includes all program spending designated "Miscellaneous-Other," as well as the program spending designated "Miscellaneous-CDOT" and described in a manner sufficient to determine that the projects were unrelated to core residential infrastructure.

projects were unrelated to core residential infrastructure. <sup>35</sup> The "Chicago Public Schools" category includes the program spending designated "Schools" in 2012, 2013, and 2014, and the program spending designated "Chicago Public Schools" in 2015.

<sup>&</sup>lt;sup>36</sup> The "Cameras" category includes program spending bearing the designations "High Definition Camera Menu," "POD Camera," and "Street Light Pole POD Camera Menu."

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• Chicago Public Schools – playgrounds, artificial turf, wrought iron fences, artwork, cameras, an outdoor amphitheater, and a chess table.

## On-Menu Non-Core Residential Infrastructure

• Cameras – POD cameras, relocation of POD cameras, and poles for POD cameras.

As we explain above in Finding 1, residential infrastructure needs went unmet in each of the 50 wards. Yet only 11 aldermen limited their Menu selections to their wards' core residential infrastructure needs. The remaining 39 aldermen allocated Menu funds in amounts ranging from \$12,492 to \$2.2 million on off-menu projects and/or cameras.<sup>37</sup> Regardless of whether these other projects were worthwhile, because they were included in Menu and not purchased through a different program they diverted scarce funding from core residential infrastructure needs and undermined CDOT's ability to fulfill its mission "to keep the city's surface transportation networks and public way safe for users, environmentally sustainable, in a state of good repair and attractive."<sup>38</sup> To provide context regarding this finding, we include as Appendix E a ward-by-ward breakdown of spending unrelated to core residential infrastructure in the years 2012 through 2015, and as Appendix F a summary of total Menu spending by type and ward.

### **Recommendation:**

The City should ensure that all Menu funding is allocated to core residential infrastructure projects. This is especially important because, as we note in Finding 1, the City's residential infrastructure needs are not fully funded. CIP plainly states that Menu provides aldermen "the option of selecting capital improvement of streets, alleys, curbs, sidewalks, and traffic calming, depending on their local infrastructure needs." In practice, however, aldermen are allowed to select off-menu projects and items unrelated to core residential infrastructure. If the City wants to provide aldermen a means for allocating funds to parks, playgrounds, community gardens, schools, cameras etc., it should consider defining an additional budget line for such projects rather than allowing the diversion of already-scarce resources intended for core residential infrastructure.

### **Management Response:**

"As the OIG notes, the Menu program is only one of many neighborhood programs in the CIP. The Menu is not intended to pay for all neighborhood infrastructure needs. Additionally, Menu funding uses may include what the OIG refers to as 'non-core residential items,' as long as the proposed use does not violate the rules and regulations of the funding sources. For example, a densely populated high-rise neighborhood may have the need for a dog park, or a low density bungalow belt with high traffic volume and limited green space or parks might feel that upgrading playground equipment best addresses an immediate neighborhood need. While not

http://www.cityofchicago.org/city/en/depts/cdot/auto\_generated/cdot\_mission.html.

<sup>&</sup>lt;sup>37</sup> In New York and Los Angeles council members are given access to discretionary funds at an estimated rate of less than \$5 per capita citywide. New York Council members are limited to providing grants to non-profits, while Los Angeles Council Members have broader discretion over use of funds. Neither city uses discretionary funds to manage routine infrastructure.

<sup>&</sup>lt;sup>38</sup> City of Chicago, CDOT, "Mission," accessed December 12, 2016,

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specifically listed under the CIP, both of these projects address local needs and can be funded through the Menu program, under certain circumstances. Going forward, OBM and CDOT will review and discuss providing greater clarity to the Menu guidelines to Aldermen.

"CDOT will continue to work with Aldermen to identify Menu projects that best serve the city and their communities. In some cases, this may include 'non-core residential items' that are worthy neighborhood investments, such community parks, playgrounds, community gardens, schools, and cameras. As discussed above, CDOT will continue to provide aldermen with all information necessary to make fully-informed decisions about neighborhood infrastructure investments."

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# Finding 3: CDOT allowed at least \$825,292 in Menu spending on projects falling outside the appropriate ward boundaries and did not enforce project selection submission deadlines.

Based on OIG's review of 2014 Menu projects in a sample of five wards, we determined that 32, or 12.2% of the 263 projects were located outside the relevant ward boundaries effective in 2014.<sup>39</sup> As a result, the City permitted aldermen in the sampled wards to designate at least \$825,292 of funding toward projects within the yet-to-be-effectuated 2015 ward boundaries, rather than restricting them to the boundaries of the wards they were elected to serve in 2011.

This practice contradicted the Corporation Counsel's 2012 memorandum on the effective date of the new ward map, which stated:<sup>40</sup>

Applicable law provides that the 2001 map, which was in effect for the 2011 elections, should govern for the duration of those four-year terms. This includes the continuing representation of constituents....

The Corporation Counsel further stated that aldermen may serve residents outside their current wards, but not to the detriment of constituents within the boundaries of the wards they were elected to serve:

The aldermen represent, and for administrative purposes (e.g., notifications) are associated with, the wards that elected them for a four-year term. Nevertheless, nothing in the cases cited [in the memorandum], or in applicable statutes, prevents aldermen from making *additional efforts* to assist any other resident of Chicago, including prospective constituents in the new version of his or her numbered ward. (Emphasis added.)

Because Menu allocates each ward a flat \$1.32 million per year, any projects funded to benefit an alderman's prospective constituents must necessarily have come at the expense of his or her current constituents. Menu projects for 2014 selected outside of the 2011 ward boundaries were not *additional efforts* as described in the memorandum, but rather a reduction of service to existing constituents. Therefore, the allocation of \$825,292 described above resulted in some future constituent residents benefiting from additional Menu funds to the detriment of current constituent residents.

CDOT staff stated that the decision of which boundaries to use was left up to each alderman. However, CDOT may have encouraged the practice by providing aldermen with maps and CSR complaint data for both their old and their new ward boundaries as part of the 2014 briefing packet. As the Corporation Counsel's memorandum makes clear, CDOT should have continued to rely strictly on the 2011 ward boundaries until after the 2015 election.

In addition, the City did not enforce Menu deadlines provided by CDOT. For instance, starting in 2012, CDOT and OBM requested that aldermen program at least 80% of their project dollars by

<sup>&</sup>lt;sup>39</sup> OIG analyzed one ward using data provided by CDOT, and randomly selected four additional wards for further analysis.

<sup>&</sup>lt;sup>40</sup> See Appendix G for the full text of the 2012 Corporation Counsel memorandum on the effective date of the new ward map.

June 30<sup>th</sup>. CDOT stated that this was necessary to ensure timely project completion. In 2014, only 31 aldermen, or 62%, reached the 80% programming goal in a timely fashion. According to CDOT, delays in project submission make it difficult for engineers to schedule site visits, plan for construction, and complete projects on time.

### **Recommendation:**

If the City continues to assign the role of residential infrastructure decision-making to aldermen, the City should enforce uniform rules and regulations governing Menu. Specifically, the City should ensure that all aldermen limit themselves to projects located within boundaries of the wards to which they were elected, and that they meet applicable submission deadlines.

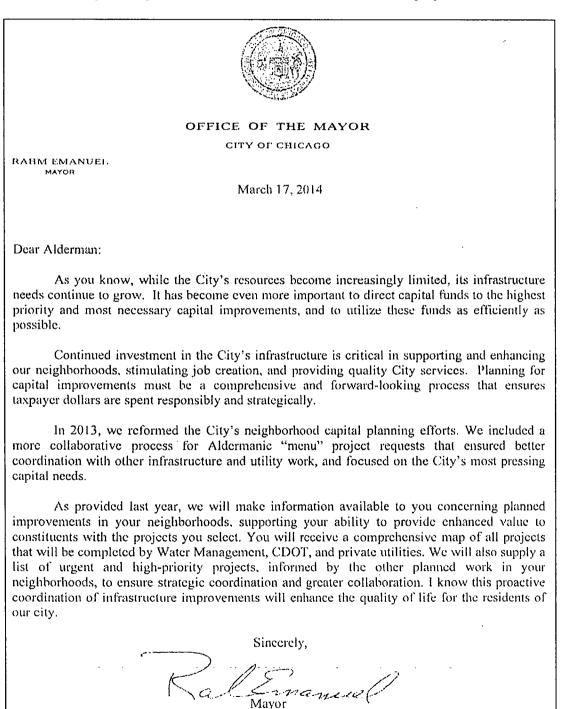
#### Management Response:

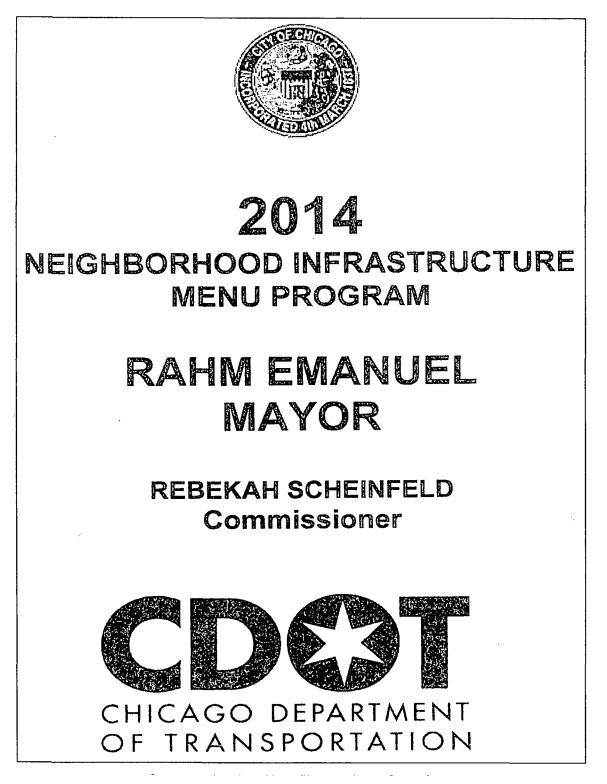
"CDOT advised Aldermen uniformly about the Menu rules and regulations. CDOT's role in the Menu Program is to provide information and decision-making tools for aldermen to identify needed projects, determine costs, prioritize projects and develop financing strategies with OBM's guidance. CDOT's role is also to advise Aldermen to submit their proposed selections in a timely manner in order for projects to be surveyed, designed, cost estimated and scheduled to meet seasonal construction deadlines.

"Menu programming will be limited to aldermen's current ward, going forward."

# V. APPENDIX A: 2014 ALDERMANIC MENU LETTERS AND PROJECT PRICE LIST

The Mayor, and CDOT and OBM, provided the following introductory letters to aldermen at the start of the 2014 Menu process. The letters explain the role of Menu in the broader context of infrastructure and provide price estimates for residential infrastructure projects.





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# CHICAGO DEPARTMENT OF TRANSPORTATION CUTY OF CHICAGO

March 17, 2014

Dear Aldermen:

Enclosed you will find a complete list of all components of the 2014 Menu package.

Mayor Emanuel outlined in his letter to you the City's efforts to identify and direct resources towards the City's most critical infrastructure needs. We believe that this new, more collaborative approach to capital planning will help you select the projects that most benefit your neighborhoods, and we look forward to sharing this information. We will contact you soon to schedule a meeting to provide details on the most critical and highest priority infrastructure projects in your neighborhoods and discuss your 2014 Menu plans. We also will provide you with a map of all the projects that will be completed over the next year by the City and private utilities.

Please deliver by April 22, 2014, prioritized primary and alternate Menu selections totaling not more than \$1,500,000. Your final selections will be limited to the \$1,320,000 allocation per alderman. It is important to note that this package includes the estimated average cost per Menu item for the coming year; however, the City's infrastructure varies block-by-block, and these estimated prices will be adjusted to reflect project-by-project costs. Once site-specific estimates for the items in your Menu have been calculated, you may be asked to revise and finalize your selections.

In order to ensure timely and effective investment of scarce infrastructure dollars, we ask that you program 80 percent of your 2014 Menu funds by June 30, 2014, with the remaining 20 percent programmed before the end of the year. The changes implemented in 2012 to the Street and Alley Resurfacing Programs to allocate the costs of ADA ramp construction will be continued in 2014.

We look forward to working with you, and please do not hesitate to reach out to us with any questions or concerns.

Sincerely,

4 Holt

Alexandra Holt Budget Director City of Chicago

Rebekah Scheinfeld Commissioner Department of Transportation

30 NORTH LASALLE STREET, SUITE 1100, CHICAGO, ILLINOIS 60602

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DEPARTMENU/PROGRAM	2013;	2014
СДОТ	ESTIMATED PRICING	ESTIMATED PRICING
Residential Street Resurfacing	\$38,000 for First 5 Blocks \$66,500 for Subsequent Blocks	\$38,000 for First 5 Blocks \$66,500 for Subsequent Blocks
Residential Alley Resurfacing	\$29,500 for First Alley \$47,500 for Subsequent Alleys	\$29,500 for First Alley \$47,500 for Subsequent Alleys
Green Alley Program	\$150,000 per Block	\$150,000 per Block
Alley Speed Hump Program	\$1,400 per Block	\$1,400 per Block
Concrete Alley Aprons	\$10,000 per Location	\$10,000 per Location
Street Speed Hump Program	\$3,700 per Block	\$3,700 per Block
Sidewalk Replacement Program	\$75,000 per Block	\$75,000 per Block
Curb & Gutter Replacement Program	\$80,000 per Block	\$80,000 per Block
Diagonal Parking	\$65,000 per Project	\$65,000 per Project
Residential Street Cul-de-Sac	\$25,000 per Project	\$25,000 per Project
Residential Street Traffic Circle	\$11,000 per Project	\$11,000 per Project
Residential Street Bump Outs	\$11,000 per Project	\$11,000 per Project
Guardrail Installations (\$50/Ft)	\$500 per 10' Section	\$500 per 10' Section
Bollard Installations	\$650 per Bollard	\$650 per Bollard

ainting Program		
ainting Program		
	\$300 per Pole	\$300 per Pole
ainting Program	\$3,500 per Intersection	\$3,500 per Intersection
rade Program	\$400 per Fixture	\$400 per Fixture
ighting Program	\$64,000 per Block	\$64,000 per Block
ting Installation	\$132,300 per Block	\$132,300 per Block
	\$164,850 per Black.	\$164,850 per Block
nal Upgrades	\$20,000 per Intersection	\$20,000 per Intersection
v Installation	\$70,000 per Intersection	\$70,000 per Intersection
ig Upgrades	\$1,500 per Fixture	\$1,500 per Fixture
stallation	\$600 per Fixture	\$600 per Fixture
tdown Sígnal	\$12,000 per Intersection	\$12,000 per Intersection
IC	2013	2014
on Camera	High Definition Camera: \$22,500 (wireless connectivity, real time streaming video, edge of network storage, high definition, non- obtrusive, weather resistant)	High Definition Camera: \$22,50 (wireless connectivity, real tin streaming video, edge of networ storage, high definition, non- obtrusive, weather resistant)
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BIKE	2013	2014		
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Bike Boulevard	\$60,000 per Half-Mile	\$60,000 per Half-Mile		
Protected Bike Lane	\$60,000 per Half-Mile       \$60,000 per         ne       \$125,000 per Half-Mile       \$125,000 per         e       \$30,000 per Half-Mile       \$125,000 per         e       \$30,000 per Half-Mile       \$30,000 per         ed Lane       \$20,000 per Half-Mile       \$20,000 per         and       \$60,000 per Location       \$60,000 per         Pedestrians"       \$550 per Location for 1 sign       \$550 per Location for 2 signs	\$125,000 per Half-Mile		
Buffered Bike Lane		\$30,000 per Half-Mile		
Bike Lane/Marked Shared Lane	\$20,000 per Half-Mile	\$20,000 per Half-Mile		
Pedestrian Refuge Island	\$60,000 per Location	\$60,000 per Location		
In-road "State Law Stop for Pedestrians" signs		\$550 per Location for 1 sign \$950 per Location for 2 signs		
	\$60,000 per Half-Mile\$60,000 per Half-Mile\$125,000 per Half-Mile\$125,000 per Half-Mile\$30,000 per Half-Mile\$30,000 per Half-Mile\$20,000 per Half-Mile\$20,000 per Half-Mile\$20,000 per Half-Mile\$20,000 per Half-Mile\$50,000 per Location\$60,000 per Location\$550 per Location for 1 sign\$550 per Location\$950 per Location for 2 signs\$950 per Location			
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# VI. <u>APPENDIX B: GOVERNMENT FINANCE OFFICERS ASSOCIATION: BEST PRACTICE FOR</u> <u>MULTI-YEAR CAPITAL PLANNING</u>

The following document comprises the full text of the GFOA best practice for multi-year capital planning.<sup>41</sup>

G	Covernment Finance Officers Association
	Multi-Year Capital Planning
	<b>Background</b> . Buildings, infrastructure technology, and major equipment are the physical foundation for providing services to constituents. The procurement, <sup>3</sup> construction, and maintenance of capital assets are a critical activity of state and local governments, school districts, and other government agencies, and therefore require careful planning
	Capital planning is critical to water, sewer, transportation, sinitation, and other essential public services. It is also an important component of a community's economic development program and strategic plan. Capital facilities and infrastructure are important legaces that serve current and future generations. It is extremely difficult for governments to address the current and long-term needs of their constituents without a sound multi-year capital plan that clearly identifies capital and major equipment needs, maintenance requirements, funding options, and operating budget impacts.
	A properly prepared capital plan is essential to the future financial health of an organization and continued delivery of services to citizens and businesses.
	<b>Recommendation.</b> GFOA recommends that state and local governments prepare and adopt comprehensive multi-year capital plans to ensure effective management of capital assets. A prodent multi-year capital plan identifies and prioritizes expected needs based on a community's strategic plan, establishes project scope and cost, details estimated amounts of funding from various sources, and projects future operating and manifemance costs. A capital plan should cover a period of at least three years, preferably five or more
	<b>Identify needs.</b> The first step in capital planning is identifying needs. Using information, including development projections, strategic plans, comprehensive plans, facility master plans, regional plans, and citizen input processes, governments should identify present and future service needs that require capital infrastructure or equipment. In this process, attention should be given to:
	<ul> <li>Capital assets that require repair, maintenance, or replacement that, if not addressed, will result in higher costs in future years.</li> </ul>
	<ul> <li>Intrastructure improvements needed to support new development or redevelopment</li> </ul>
	Projects with revenue-generating potential
	Improvements that support economic development
	200 гожин тоболо \$рекст Кило 2400 — Слякоды махии XXX01 1740 — ракарсий и м. У. С. К. К. с. 2497 4306 у <mark>жиж glob org</mark>

<sup>41</sup> GFOA, "Multi-Year Capital Planning, Best Practice," February 2006, accessed June 27, 2016, <u>http://www.gfoa.org/multi-year-capital-planning</u>.

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•	Junges in policy or community needs	
		14 hours for an arrest on to an
	ne costs. The full extent of project costs shou ng the multi-year capital plan. Cost issues to consid	
	The scope and timing of a planned project shoul arly stages of the planning process	d be well defined in the
	Agencies should identify and use the most - neluding outside assistance, when estimating pro- evenues	
	or projects programmed beyond the first year e hould adjust cost projections based on anticipated	
	The ongoing operating costs associated with a prantified, and the sources of funding for those cos	
	A clear estimate of all major components required hould be outlined, including land acquisition nee contingency and post construction costs	
	lecognize the non-financial impacts of the project he community	(e.g., environmental) on
noeds ar is a criu	e capital requests, Governments are continually fac ad limited financial resources. Therefore, prioritizin ical step in the capital plan preparation process ils, governments should:	ng capital project requests
	Reflect the relationship of project submittals to policies, plans, and studies	financial and governing
• .	Allow submitting agencies to provide an initial prio	riuzation
	ncorporate input and participation from major stal public	keholders and the general
•	Adhere to legal requirements and/or mandates	
• .	Anticipate the operating budget impacts resulting f	rom capital projects
	Apply analytical techniques, as appropriate, for ev- e.g., net present value, pay back period, cost-b vosting, cash flow modeling)	
•	Re-evaluate capital projects approved in previous a	nulti-year capital plans
	se a rating system to facilitate decision-making	
viable f strategie	financing strategies. GFOA recognizes the imp inancing approach for supporting the multi-year is should align with expected project requirement health of the organization, Governments under multi	r capital plan. Emancing ants while sustaining the
	Anticipate expected revenue and expenditure relationship to multi-year financial plans	ttends, including their
		,

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	provide la providenza de la companya de la companya A companya de la comp	Bost Practice
-		
	Prepate cash flow projections of the amount and timing of the capital	
	financing	
	Continue compliance with all established financial policies	
	Recognize appropriate legal constraints     Constraints	
	<ul> <li>Consider and estimate funding amounts from all appropriate funding alternatives</li> </ul>	
	<ul> <li>Ensure reliability and stability of identified funding sources</li> </ul>	
	<ul> <li>Evaluate the affordability of the financing stratege, including the impact on debt ratios, taxpayers, ratepayers, and others</li> </ul>	
	References	
	Capital Improvement Programming: A Guide for Smaller Governments, GFOA, 1996	
	Recommended Budget Practices: A Framework for Improved State and Local Government Budgeting, National Advisory Council on State and Local Budgeting, GFOA, 1998.	
	GFOA Best Practice, "Establishing Appropriate Capitalization Thresholds for Tangible Capital Assets," 2001.	
	GFOA Best Practice, "Establishing the Useful Life of Capital Assets," 2002.	
	Capital Budgeting and Finance. A Guide for Local Governments. International Cuty/County Management Association, 2003	
	"Managing the Capital Planning Cycle Best Practice Examples of Effective Capital Program Management," <i>Government Finance Review</i> , June 2004.	
	GFOA Best Practice, "Establishment of Strategic Plans," 2005.	
	Approved by the GFOA's Exècutive Board, February, 2000	
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# VII. <u>APPENDIX C: ANNUALIZED COST TO MAINTAIN AN AVERAGE STREET AND AVERAGE</u> <u>ALLEY BASED ON 2015 MENU PRICING</u>

The following tables outline OIG's estimate of the annual cost to maintain the infrastructure on an average residential street and an average alley. We based this calculation on CDOT's 2015 pricing and life-cycle estimates for each project type. We divided the estimated price of each residential street component by the longest expected life-cycle for that component to determine an annual cost. To determine the cost of residential infrastructure per ward, we multiplied the total per block annual life-cycle cost by the number of residential blocks in each ward, provided by the Department. The total per block costs of street and alley resurfacing projects include ADA supplemental subsidies—\$57,000 per block for streets and \$36,000 per block for alleys. In practice, the subsidies are applied to each project and not on a per ward basis.

In evaluating the City's funding for residential infrastructure, OIG did not include other maintenance activities, such as pothole filling and crack sealing, because these programs address a deficient piece of a whole component and do not replace the entire residential infrastructure components included in our analysis.

Note: OIG used the longest estimated life cycle for each menu item in our calculations, resulting in the most conservative cost estimates.

A STREETS and ALLEYS A								
-Menultem(Streets) #	# Per Block	Estimated) Pricing	ADA Supplement	Pe	r Block Total	- Expected Lifecycle (Years)	Per Block Annual Lifecycle Cost	
Res. Street Resurfacing	1	S 42,000	\$ 57,000	\$	99,000	20	\$ 4,950	
Res. Street Speed Humps	0.18	3,700	-	S	666	10	67	
Sidewalk Replacement	1	75,000	-	S	75,000	50	1,500	
Curb & Gutter Replacement	1	80,000	_	S	80,000	50	1,600	
Res Street Lighting Program	1	73,200	-	S	73,200	50	1,464	
Total		See Star	<b>的变形的变</b> 力的	S.	327,866	2013年1月1日	S	

1.5. "Menu Item (Alleys)) 🛸	# <sub>j</sub> Per Block	Estimated Pricing	12.	ADA Supplement	1.124	r Block Total	Expected Lifecycle	Per Block Annual
Res. Alley Resurfacing	1	S 31,500	S	36,000	S	67,500	20	S 3,375
Alley Speed Humps	0.18	1,400	Τ	-	S	252	10	25
Concrete Alley Apron	2	10,000		-	S	20,000	40	500
Total			18 <u>1</u>		S	87,752		S 3,900

Source: 2015 Menu prices and maximum expected life cycle estimates provided by CDOT

### VIII. APPENDIX D: WARDS BY PERCENTAGE OF RESIDENTIAL INFRASTRUCTURE NEEDS FUNDED IN 2015

OIG used the average cost per street and alley (as calculated in Appendix C), and the number of street and alley miles provided by CDOT, to estimate each ward's total annual residential infrastructure needs for streets, alleys, sidewalk, lighting, curb and gutter, and speed humps.<sup>42</sup> We then calculated the percentage of residential infrastructure needs addressed by annual Menu funding (assuming all Menu funds are spent on the residential infrastructure project types listed above). These percentages are displayed in the following two tables. The first table is organized by ward, and the second by percentage of need funded.

<sup>&</sup>lt;sup>42</sup> Street and alley mile counts reflect the 2015 ward boundaries.

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Iviei	iu runan	ig vs. Esti	mated R	esidential	intrastruci	ure needs	– Sortea	<u>by wara</u>	_
•. •	Residential	2015	Residential	2015		•	5 e - 1 e - 5	Difference	% Of
	Street	Residential	Alley Blocks		Total 2015	Per Ward	ADA Ramp	between Need	Needs
Ward		Street Funds	(2015	Alley Funds	Ward Need	Menu	Subsidy and	and Allocation	Funded
	Wards)	Needed	Wards)	Needed	Waluiteeu	Allocation	Soft Costs	(Unmet Need)	11 A A A A A A A A A A A A A A A A A A
12.1	warus)	Needed	waius)	Needed **				(Unmer Need)	by AMP
1	400.0	\$ 3,832,240	321.6	\$ 1,254,304	\$ 5,086,544	\$ 1,320,000	\$ 360,000	\$ 3,406,544	33:0
2	292.8	\$ 2,805,200	184.0	\$ 717,637	\$ 3,522,836	\$ 1,320,000	\$ 360,000	\$ 1,842,836	47:7
3	524.8	\$ 5,027,899	253.6	\$ 989,091	\$ 6,016,990	\$ 1,320,000	\$ 360,000	\$ 4,336,990	27:9
4	431.2	\$ 4,131,155	146.4	\$ 570,989	\$ 4,702,144	\$ 1,320,000	\$ 360,000	\$ 3,022,144	. 35.7
5	405.6	\$ 3,885,891	185.6	\$ 723,877	\$ 4,609,768	\$ 1,320,000	\$ 360,000	\$ 2,929,768	36.4
6	621.6	\$ 5,955,301	451.2	\$ 1,759,770	\$ 7,715,071	\$ 1,320,000	\$ 360,000	\$ 6,035,071	21:8
7	576.0	\$ 5,518,426	370.4	\$ 1,444,634	\$ 6,963,060	\$ 1,320,000	\$ 360,000	\$ 5,283,060	24.1
8	737.6	\$ 7,066,651	530.4	\$ 2,068,666	\$ 9,135,317	\$ 1,320,000	\$ 360,000	\$ 7,455,317	
9	822.4	\$ 7,879,085	550.4	\$ 2,146,670	\$ 10,025,756	\$ 1,320,000	\$ 360,000	\$ 8,345,756	
10	848.0	\$ 8,124,349	492.0	\$ 1,918,898	\$ 10,043,247	\$ 1,320,000	\$ 360,000	\$ 8,363,247	
11	593.6	\$ 5,687,044	312.0	\$ 1,216,862	\$ 6,903,907	\$ 1,320,000	\$ 360,000	\$ 5,223,907	24.3
12	412.8	\$ 3,954,872	289.6	\$ 1,129,498	\$ 5,084,370	\$ 1,320,000	\$ 360,000	\$ 3,404,370	
13		\$ 5,947,636	1	\$ 1,769,131		\$ 1,320,000	\$ 360,000	\$ 6,036,767	21.8
14		\$ 5,457,110		\$ 1,469,595	<b>• • • • • • • • • •</b>		\$ 360,000	\$ 5,246,705	24.3
15	375.2	\$ 3,594,641		\$ 1,123,258	\$ 4,717,899	\$ 1,320,000	\$ 360,000	\$ 3,037,899	35.6
16	553.6	\$ 5,303,820	451.2	\$ 1,759,770	\$ 7,063,590	\$ 1,320,000	\$ 360,000	\$ 5,383,590	· 23.8
17	568.8	\$ 5,449,445	416.0	\$ 1,622,483	\$ 7,071,928	\$ 1,320,000	\$ 360,000	\$ 5,391,928	23.8
18	752.8	\$ 7,212,276	422.4	\$ 1,647,444	\$ 8,859,720		\$ 360,000	\$ 7,179,720	
19	934.4	\$ 8,952,113	404.8	\$ 1,578,801	\$ 10,530,914	\$ 1,320,000	\$ 360,000	\$ 8,850,914	
20	628.0	\$ 6,016,617	424.0	\$ 1,653,685			\$ 360,000	\$ 5,990,302	
21	· · · · · ·	\$ 6,974,677	+	\$ 1,937,619	\$ 8,912,296	1	\$ 360,000	\$ 7,232,296	
22	400.8	\$ 3,839,904		\$ 1,045,254			\$ 360,000	\$ 3,205,158	
23		\$ 5,947,636		\$ 1,634,964			\$ 360,000	\$ 5,902,600	
24	468.8	\$ 4,491,385	348.0	\$ 1,357,270			\$ 360,000	\$ 4,168,655	
25		\$ 4,276,780	215.2	\$ 839,323	\$ 5,116,103		\$ 360,000	\$ 3,436,103	102432.8
26		\$ 3,372,371	288.0	1.		···· · · ·	\$ 360,000	\$ 2,815,629	
27	791.2	\$ 7,580,171	336.8	\$ 1,313,587			\$ 360,000	\$ 7,213,758	
28		\$ 6,070,268		\$ 1,547,599	\$ 7,617,868		\$ 360,000	\$ 5,937,868	St 22.1
29		\$ 5,510,761	387.2	1	\$ 7,020,919	\$ 1,320,000	\$ 360,000		23.9
30		\$ 4,031,516		\$ 1,294,866			\$ 360,000	\$ 3,646,383	
31		\$ 3,571,648		\$ 1,135,738	\$ 4,707,386		\$ 360,000	\$ 3,027,386	
32		\$ 4,062,174		\$ 1,453,995	\$ 5,516,169	1	\$ 360,000	\$ 3,836,169	3,30:5
33		\$ 3,142,437		\$ 1,163,820	\$ 4,306,256	•	\$ 360,000	\$ 2,626,256	39.0
34		\$ 8,507,573		\$ 2,642,776	1.		\$ 360,000	\$ 9,470,348	Essi
35		\$ 2,966,154		\$ 1,039,013	\$ 4,005,167	1 . · · · · · ·	\$ 360,000	\$ 2,325,167	
36	· · ·	\$ 4,445,398		\$ 1,450,874	\$ 5,896,273		\$ 360,000	\$ 4,216,273	-x 128.5
37		\$ 4,115,826		\$ 1,407,192	\$ 5,523,018		\$ 360,000	\$ 3,843,018	
38	632.0	\$ 6,054,939	434.4	\$ 1,694,247	\$ 7,749,186	\$ 1,320,000	\$ 360,000	\$ 6,069,186	\$ 21.7
39	633.6	\$ 6,070,268	· · · · · · · · · · · · · · · · · · ·	\$ 1,597,522	• ·····	\$ 1,320,000	\$ 360,000		
40		\$ 3,962,536		\$ 1,216,862			\$ 360,000		
41	850.4	\$ 8,147,342	408.0	\$ 1,591,282		1	\$ 360,000		
42		\$ 3,372,371					\$ 360,000		
43		\$ 2,674,904					\$ 360,000		
44		\$ 1,992,765							
45	·····	\$ 6,162,242		\$ 1,928,259			\$ 360,000		
46		\$ 1,586,547		X			\$ 360,000		<b>3</b> 2 88's
47		\$ 4,031,516		\$ 1,363,510			\$ 360,000		
48		\$ 1,732,172					\$ 360,000		70.6
49		\$ 2,207,370		\$ 761,319			\$ 360,000		
50		\$ 3,671,286		\$ 1,185,661			\$ 360,000		
				, -, -, -, -, -, -, -, -, -, -, -, -, -,					

### Menu Funding vs. Estimated Residential Infrastructure Needs – Sorted by Ward

 50
 383.2
 \$ 3,671,286
 304.0
 \$ 1,185,661
 \$ 4,856,947
 \$ 1,320,000
 \$ 360,000
 \$ 3,176,947

 Source: OIG calculations based on 2015 Menu prices and ward boundaries.

Note: This analysis does not include other funding such as TIF.

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Menu Funding vs. Estimated Residential Infrastructure Needs - Sorted by Percentage of	
Needs Funded	

	is Funded				T	· · · · ·		;	·	2.1			
· .	·	2015		2015	1		<u>ц</u> и	, s	1.1		· .		W 04
	Residential	- Residential	Residential			-1 2015 1444			· Aİ	A Ramp		ifference	% Of
Ward	Street Blocks		Alley Blocks	Residential	10	tal 2015 Ward	- 1	20 A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.	Sul	sidy and	1 A -	ween Need	Needs
	(2015 Wards)	Street Funds	(2015 Wards)	Alley Funds		Need		llocation	Sc	oft Costs		Allocation	Funded by
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Needed		Needed	- M.						∷(Ur	met Need)	AMP
		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				-			<u> </u>		<u>ilite Martine</u>	24 1
34	888.0		677.6		\$	11,150,348	\$	1,320,000	\$	360,000	\$	9,470,348	- 1000
19	934.4	\$ 8,952,113	404.8		\$	10,530,914	\$	1,320,000	\$	360,000	\$	8,850,914	
10	848.0		492.0		\$	10,043,247	\$	1,320,000	\$	360,000	\$	8,363,247	7
9	822.4	\$ 7,879,085	550.4		\$	10,025,756	\$	1,320,000	\$	360,000	\$	8,345,756	
41	850.4		408.0		\$	9,738,624	\$	1,320,000	\$	360,000	\$	8,058,624	
8	737.6		530.4	· · · · · · · · · · · · · · · · · · ·	\$	9,135,317	\$	1,320,000	\$	360,000	\$	7,455,317	
21	728.0		496.8	\$ 1,937,619	\$	8,912,296	\$	1,320,000	\$	360,000	\$	7,232,296	in a state
27	791.2		336.8	\$ 1,313,587	\$	8,893,758	\$	1,320,000	\$	360,000	\$	7,213,758	1. 10 A
18	752.8	\$ 7,212,276	422.4	\$ 1,647,444	\$	8,859,720	\$	1,320,000	\$	360,000	\$	7,179,720	្តីស្ត្រីរ
45	643.2	\$ 6,162,242	494.4	\$ 1,928,259	\$	8,090,501	\$	1,320,000	\$	360,000	\$	6,410,501	20.8%
38	632.0	\$ 6,054,939	434.4	\$ 1,694,247	\$	7,749,186	\$	1,320,000	\$	360,000	\$	6,069,186	<b></b>
13	620.8		453.6	\$ 1,769,131	\$	7,716,767	\$	1,320,000	\$	360,000	\$	6,036,767	\$ 21:8%
6	621.6	\$ 5,955,301	451.2	\$ 1,759,770	\$	7,715,071	\$	1,320,000	\$	360,000	\$	6,035,071	21.8%
20	628.0	\$ 6,016,617	424.0	\$ 1,653,685	\$	7,670,302	\$	1,320,000	\$	360,000	\$	5,990,302	21.9%
39	633.6	\$ 6,070,268	409.6	\$ 1,597,522	\$	7,667,790	\$	1,320,000	\$	360,000	\$	5,987,790	1. 21.9%
28	633.6	\$ 6,070,268	396.8	\$ 1,547,599	\$	7,617,868	\$	1,320,000	\$	360,000	\$	5,937,868	22.1%
23	620.8	\$ 5,947,636	419.2	\$ 1,634,964	\$	7,582,600	\$	1,320,000	\$	360,000	\$	5,902,600	22.2%
17	568.8	\$ 5,449,445	416.0	\$ 1,622,483	\$	7,071,928	\$	1,320,000	\$	360,000	Ś	5,391,928	23.8%
16	553.6		451.2	····	-	7,063,590	\$	1,320,000	\$	360,000	\$	5,383,590	32 3.8%
29	575.2	· · · · · · · · · · · · · · · · · · ·	387.2	······		7,020,919	\$	1,320,000	\$	360,000	\$	5,340,919	kn 23.9%
7	576.0		370.4			6,963,060	\$	1,320,000	Š	360,000	\$	5,283,060	78-24.1%
14	569.6		376.8		-	6,926,705	\$	1,320,000	\$	360,000	\$	5,246,705	24.3%
11	593.6		312.0			6,903,907	\$	1,320,000	\$	360,000	\$	5,223,907	24.3%
3	524.8		253.6			6,016,990	Ś	1,320,000	Š	360,000	Ś	4,336,990	27.9%
36	464.0		372.0	· · · · · · · · · · · · · · · · · · ·	<u> </u>	5,896,273	\$	1,320,000	\$	360,000	\$	4,216,273	28.5%
24	468.8		348.0			5,848,655	Ś	1,320,000	Ś	360,000	Ś	4,168,655	28.7%
37	429.6	······	360.8		- ·	5,523,018	\$	1,320,000	\$	360,000	\$	3,843,018	30.4%
32	424.0		372.8				\$		\$ \$		\$		
47	420.8		349.6			5,516,169	\$	1,320,000	\$	360,000	\$ \$	3,836,169	144, 30.5%
			··· · · · · · · · · · · · · · · · · ·		_	5,395,026		1,320,000		360,000		3,715,026	
30 40	420.8	······································	332.0		-	5,326,383	\$	1,320,000	\$	360,000	\$	3,646,383	31.5%
	413.6		312.0		_	5,179,399	\$	1,320,000	\$	360,000	\$	3,499,399	32.4%
25	446.4		215.2		-	5,116,103	\$	1,320,000	\$	360,000	\$	3,436,103	124 32.8%
1	400.0		321.6		_	5,086,544	\$	1,320,000	\$	360,000	\$	3,406,544	33.0%
12	412.8		289.6		- i -	5,084,370	\$	1,320,000	\$	360,000	\$	3,404,370	401 33.0%
22	400.8		268.0		_	4,885,158	\$	1,320,000	\$	360,000	\$	3,205,158	# 34.4%
50	383.2		304.0			4,856,947	\$	1,320,000	\$	360,000	\$	3,176,947	<b>34.6%</b>
15	375.2	\$ 3,594,641	288.0			4,717,899	\$	1,320,000	\$	360,000	\$	3,037,899	A 35.6%
31	372.8		291.2		_	4,707,386	\$	1,320,000	\$	360,000	\$	3,027,386	A 35.7%
4	431.2		146.4			· 4,702,144	\$	1,320,000	\$	360,000	\$	3,022,144	35.7%
5	405.6		185.6		-	4,609,768		1,320,000		360,000	-		36.4%
26	352.0		288.0			4,495,629	-	1,320,000		360,000			37:4%
33	328.0		298.4		_	4,306,256		1,320,000		360,000	<u> </u>	2,626,256	39.0%
35	309.6	\$ 2,966,154	266.4		_	4,005,167	\$	1,320,000	\$	360,000	\$	2,325,167	41.9%
42	352.0	\$ 3,372,371	66.4	\$ 258,973	\$	3,631,344	\$	1,320,000	\$	360,000	\$	1,951,344	46.3%
2	292.8	\$ 2,805,200	184.0	\$ 717,637	\$	3,522,836	\$	1,320,000	\$	360,000	\$	1,842,836	
43	279.2	\$ 2,674,904	192.0	\$ 748,838	\$	3,423,742	+	1,320,000	+	360,000	t · · · · ·	1,743,742	49.1%
49	230.4		195.2		· ·	2,968,689		1,320,000	· · ·	360,000		1,288,689	1
44	208.0		176.8		1	2,682,320		1,320,000	<u> </u>	360,000	i		62.6%
48	180.8	and a second	166.4		_	2,381,166	<u> </u>	1,320,000		360,000	<u> </u>	701,166	70.6%
-46	· · · · · · · · · · · · · · · · · · ·	\$ 1,586,547		\$ 312,016	_			1,320,000	t			218,563	

# IX. <u>APPENDIX E: WARD BREAKDOWN OF Menu SPENDING UNRELATED TO CORE</u> <u>RESIDENTIAL INFRASTRUCTURE</u>

In the four years from 2012 through 2015, the City allowed aldermen to designate \$15.1 million in Menu funds for projects unrelated to core residential infrastructure. The following table provides a breakdown of that spending by ward. For comparison, we included the percent of residential infrastructure needs funded by Menu (as calculated in Appendix D). This analysis does not include other funding such as TIF.

OIG File #14-0430 Aldermanic Menu Program Audit

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April 19, 2017

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2 3 4 5 6 7 8 9 10 11 12	by AMP (From Appendix D) 33.0% 47.7% 27.9% 35.7% 36.4% 21.8% 24.1% 10 10 10 10 10 10 10 10 10 10 10 10 10	<b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b>	2012 705,155 30,000 11,450 150,000 - - - - - 8,674	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2013 598,808 18,841 34,963 - 400,515 - - - - - - - - - - - - -	S S S S S S S S S S S S S S S S S S	2014 375,000 - 10,000 - 200,000	<b>S</b> <b>S</b> <b>S</b> <b>S</b>	2015 535,000 - - - 2,300	\$ \$ \$ \$ \$ \$ \$	Total 2,213,963 48,841 63,310 150,000 602,815
1           2           3           4           5           6           7           8           9           10           11           12	Appendix D) 33.0% 47.7% 27.9% 35.7% 36.4% 21.8% 24.1% 10 24.3% 33.0%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	705,155 30,000 11,450 150,000 - - - - - 8,674	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	598,808 18,841 34,963 	\$ \$ \$ \$	375,000 - 10,000 -	\$ \$ \$ \$	<u>535,000</u> - 6,897 -	\$ \$ \$ \$	2,213,963 48,841 63,310 150,000
1           2           3           4           5           6           7           8           9           10           11           12	33.0% 47.7% 27.9% 35.7% 36.4% 21.8% 24.1%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	705,155 30,000 11,450 150,000 - - - - 8,674	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	18,841 34,963 - 400,515 - -	\$ \$ \$ \$	- 10,000 -	\$ \$ \$ \$	6,897	\$ \$ \$ \$	2,213,963 48,841 63,310 150,000
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		\$	180,000	\$	306,192	\$	1,800	\$	115,000	\$	602,992
	24.3%	\$	-	\$		\$		\$	-	\$	-
	35.6%	\$	42,500	\$	-	\$	-	\$		\$	42,500
	23.8%	\$	197,200	\$	515	\$	-	\$	-	\$	197,715
17	575 23.8% SP	\$	-	\$	2,177	\$	20,323	\$		\$	22,500
	al a constant	\$	-	\$	-	\$	-	\$		\$	
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	34.4%		150,000	\$	22,500	\$	460,700	\$	149,000	\$	782,200
	**************************************	\$	250,000	\$	354,112	\$	43,802	\$	325,688	\$	973,602
	28.7.%	\$	539	\$	22,500	\$	45,000	\$	15,000	\$	83,039
	32.8% <b>5</b> ***	\$	387,224	\$	622,776	\$	129,742	\$	205,153	\$	1,344,895
	37,4%	\$	172,500	\$	22,500	\$	-	\$		\$	195,000
		\$	-	\$	22,500	\$	22,500	\$		\$	45,000
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		-		5	14,800	3 5	22,500	3 \$	20,030	5	64,311
	21.9%	• • • • •	3,600	\$	47,922	5	14,823	5	23,290	<u> </u>	89,635
+/	AND 32.4% SAME AND	\$	120,000	5	3,000	3 5	4,000	\$	10,100	<u>\$</u>	137,100
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	885%			\$	45,000	\$	10,000	\$	150,264	\$	205,264
	31.1%***	\$	338,765	\$	55,000	\$	500,000	\$	5,188	Ŝ	898,953
	70.6%		89,163	\$	365,144	\$	128,496	\$	79,072	S	661,875
49	56.6%	\$	224,000	5	11,081	\$	558,531	\$	592,454	\$	1,386,066
-50	34.6%			<u> </u>	11,001	I.S		5		\$	
		\$	3,315,988	\$	4,571,802	5	3,562,221	\$	3,662,856	\$	15,112,867

# X. <u>APPENDIX F: TOTAL MENU SPENDING BY TYPE AND WARD</u>

OBM posts on its website Menu project selections by ward (<u>http://www.cityofchicago.org/city/en/depts/obm/provdrs/cap\_improve.html</u>). OIG used this public reporting to summarize Menu spending in the years 2012 through 2015 by type and program (see the first table below) and by ward (see the second table below).

Type/Program <sup>43</sup>	Amount	Percent
Streets	\$129,495,579	52.0%
Street Resurfacing Menu	98,769,992	
Street Resurfacing Menu(1-5)	29,603,977	
Street Bump Outs Menu	547,551	
Street Resurface Menu-Change Order	310,742	
Street Cul-dc-Sac Menu	263,317	·····
Street Lighting	\$44,575,448	17.9%
Street Lighting	35,793,788	
Street Light Residential Staggered Piggy Back Menu	8,224,504	
Street Light Residential Staggered Menu	193,000	
Street Light Upgrade Menu	140,415	
Street Light Upgrade Piggy Back Menu	97,900	
Street Light Arterial Menu	91,000	
Street Light Piggy Back Only Menu	24,000	<u></u>
Floodlight Menu	10,841	:
Sidewalk and Pedestrian-Related Projects	\$25,619,441	10.3%
Sidewalk Menu	23,908,031	
Sidewalk Menu-Change Order	842,380	
Pedestrian Refuge Island Menu	501,997	
In-Road State Law Stop for Pedestrians Sign	257,828	
Pedestrian Countdown Signal Menu	102,205	
Accessible Pedestrian Signal	7,000	
Alleys	\$22,921,652	9.2%
Concrete Alley Menu	9,541,081	
Alley Resurfacing Menu	8,334,704	
Alley Apron Menu	2,619,320	
Alley Resurfacing Menu(1-1)	1,647,545	
New Alley Construction	364,231	
Alley Speed Hump Menu	341,918	
Alley Resurfacing Menu - Change Order	55,162	
Concrete Alley Menu-Change Order	17,691	· .
Curb/Gutter	\$11,402,586	4.6%

<sup>&</sup>lt;sup>43</sup> Menu program titles are those used in OBM's public reporting. OIG grouped the programs by type based on those titles.

Curb/Gutter Menu	11,079,707	
Curb/Gutter Menu-Change Order	322,879	
Chicago Park District	\$8,900,667	3.6%
Chicago Park District	8,900,667	
Miscellancous CDOT Projects	\$6,126,603	2.5%
Miscellaneous CDOT Projects	6,126,603	
Traffic	\$4,971,082	2.0%
Street Speed Hump Menu	2,255,505	
Traffic Signals	1,436,486	
Traffic Signal Modernization	369,240	
Left-Turn Arrow Menu	300,000	
Diagonal Parking Menu	258,292	
Bollard Menu	135,111	
Pavement Markings Menu	132,066	
Guardrail Menu	48,065	
Traffic Signal Modernization Design Menu	25,000	
Street Speed Hump Removal Menu	3,700	
Resurfacing Street Speed Hump Replacement	3,700	
Street Traffic Circles Menu	3,217	
Alley Speed Hump Removal Menu	700	
Miscellaneous Other Projects	\$2,842,596	1.1%
Miscellaneous Other Projects	2,842,596	
Chicago Public Schools	\$2,002,170	0.8%
Chicago Public Schools	2,002,170	
Painting	\$1,198,774	0.5%
Pole Painting	1,049,674	
Street Light Pole Painting Menu	110,250	
Traffic Signal Pole Painting Menu	34,150	,
Street Pole Painting Menu	4,700	
Cameras	\$870,016	0.3%
POD Camera	692,450	· · ·
High Definition Camera Menu	162,066	
Street Light Pole POD Camera Menu	15,500	
Bike Lane/Marked Shared Lane	\$604,613	0.2%
Protected Bike Lane Menu	405,716	
Bike Lane/Marked Shared Lane Menu	106,000	
Buffered Bike Lane Menu	92,897	
Total	\$ 261,531,227	100.0%

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<u></u>	Grand Total	5 292 393	·   ~	\$ 5,274,747	S 5,096,910	\$ 4,975,313	5 5,244,539	\$ 5.277,491	\$ 5,274,794	\$ 5,264.277	5 5,238,268	\$ 5,275,481		5 5,278,764 ¢ c 37e e44	1				1			\$ 5,208.455	\$ 5,265,060	\$ 4,996,778	1	- i		5 5.2/8,798	1	1		1	\$ 5,212.482	5				062/6/2.6 6	1	~	5	\$ 5,265,006	Ś	s		\$	5 5,227,184	5 5,265,165
Bike	Lane/Marked	5 50 000 0 9%																									_							\$ 74,897 1 4%						S 18.000 0 3%			\$ 75,716 15%	\$330,000 64%		\$ 56,000 11%		
	Cameras									ŝ	\$ 45,000 0.9%			5 1,800 0.0%	C 47 CM 0 0K	2017	\$ 27 500 0.6%	1110				\$ 22,500 0.4%			\$ 157,500		S 45,000	S 21,500 0.4%	¢ 33 E.M. 0.4%		2011		\$ 22,500 0.4%	-				115,16 6	2 3,000 U 174					\$192,055 3 7%		\$ 22,500 0.4%		
	Painting		\$ 489.800 9 4%		\$ 5,200 01%			\$ 1.200 0.0%	\$ 5,500 0 1%	\$ 3,600 01%				s 200 0.0%	C 16 0ED 0 292	× 37.650 0.7%	909		\$ 52.900 1 0%			5 9,000 0 2%		\$ 33,500 07%	\$ 50,800 1 0%		12.224	5 40,150 08%	10/100 C		< 13 200 0 2%		S 81,100 16%	\$ 39,800 0.8%			S 300 00%		200 000 C	\$ 188.750 3.6%		\$ 14,650 D 3%		\$ 17,600 03%		\$ 26,000 05%		
1	Chicago Public Schools	5 148 063 2 8%	FOCTOR Y							\$ 7,115 0 1%			- L	30,000 0.6%									\$ 173,602 33%		\$ 50.000 0.9%			\$ 9,400 0 2%				\$ 146,740 2.8%			\$ 8,900 0.2%		\$ 70,650 1 3%				\$ 28,500 0.5%	300,200 5 7%				\$ 290,000 5 5%		
	Miscellaneous Other Projects	1¥	0.4%	1	I 1	602,815 12,1%								6,192 0.1%		515 0.0%			20.515 0.4%		1	285,700 5.5%		539 0.0%	292,395 55%	-		227 0.0%				60,000 11% 5	150,000 2 9%						80,U35 1 6%		5	800		23,353 0 5%	0 S <b>X</b>	20%	527,696 10 1%	
	Traffic	301 308 5 7%	X1 C 005 161	4 3%	147,400 2 9%		I 1	40,700	28,420 05%	7,699 01%	108,136 2.1%	- 1		71,024 1.3% \$						25%	0.6%	594,390 11.4% \$	1.8%			- 1		89,985 1 7% \$				3,700 01% \$	164,700 3 2% \$	1					2/26/20 0/26/27 2	1	1	0 3%	32,776 0.6% \$			1	- 1	S 7,700 01%
	Miscellaneous CDOT Projects	76 959 1 514 5	XC.7 CCC,01	31.042	275,682	666.574	48,146	83,630	770 00% \$	\$	69,478 1.3% \$		- I	18,319 0 3% 5	403 UUN 3		11 660	77.9	E	40.410 0.8% 5		\$	10,925 0 2% 5	261 0 0% \$	120,125	63,527	- I.	- I	100	2 20 0 00C 07		13,401 0 3% \$	1	334,042	52,374 1 0% 5		200,076	432,051	3,332 U 1% >	762 794	1	108,119	97,857 1.9% 5	385,983 7.5% \$	547,057	006,704	405,244 7.8%	<u>~</u>
	Chicago Park District	C 1 040 000 36 7K C	_	34 000 0.6% 5	150,000 2.9%		S	S	s		\$	1	250,000	565,000 10 7% 5		2 38 C 000 1 28 C			154 118 2 9%		•	474,000 9 1%	800,000	15,000 0 3% 5		150,000 2 8% \$		51,000,000 18.9% 5				188,404		\$	395,578 7.5% \$	-	\$		2 700 000	en v	88,500 17% 5	44,988	1 1	3,209 0.1% \$	1	242,000 4 6%	858,370 16.4% \$	. <u> </u>
× .	Curb/Gutter	103 216 206	736 QAS & 55	4.	11 OK	809		1,059,602		563,546 10.7%				- 1	44C 0 807.82					100		92,238 1.8% \$	10.5%	2.0%	0 5%	S 4%	3 <b>4%</b>	<b>3</b> 56		10, 112 2 97 NEL		0.2%	11.1%			92,442 18%	· · ·		208,289 3 9%		- F	84%		244,439 4 7% 5	)	13%	354,098 6 8% \$	_
	Alleys	S AC UL VOC DES		1		181.906 3.7% 5		I 1	65,505 1.2% 5				71%	ž	C 97 F 077 991	x		×0 C		2 22 22 22 22 22 22 22 22 22 22 22 22 2	X		21 0%		1,532,493 29 1% \$		21 5%		2 2		404,300 80%	19 4%	33%	-		2.5%	6 8%		568,925 10 8% 5		36.5 <b>X</b>	8 4%		341,204 6.6% 5	1		302,475 58% \$	67,898 1,3%
Sidewalk and	Pedestrian-Related	Projects	588 370	5 267 807 5 0% S	\$ 1,435,512 28 2% \$	282.908 5.7% 5		256,437	680,759 12 9% \$	785,856 14 9% 5	1,261,694 24 1% \$	620,010 11.8% \$	726,652 13 9% \$	52,673 1.0% \$	C 146TH 701'57 C 140 D RCF C 146TH 701'5'C04'7 C	2 72 81 VLV 100				1-		510,901 98% \$	988,146 18.8% S	215,093 4 3% \$	406,882 7.7% \$	363,725 6.9% 5	721,160 14 1% 5	131,059 2.5%		141,4/8 14 17		158.585 3 0%	1,008,984 19 4%		113,561 2.2% \$	195,685 3 7%	247,543	140,161	71,681 14% 5	759 759	1			271,415 5 3% \$		153,545 2.9% \$	170,132 3 3% 5	43.716 0.8% \$ 67.898
subt terms an investigated and investigated and	Street Lighting Pr	150,000 2,8% 6	386.050 7.4%	2 X6 22 22 72 72 73 1	\$ 342,550 67% \$		1,855,999 35 4% \$		1.568,076 29.7% \$ 2,579,861 48.9% \$ 680,759 12 9%	25,200 0.5% \$		821,500 15 6% \$		3,226,965 61 1% 5		2 2/ 14 000 14 3K 2	15	5 %E 91 USE UE8		367 100 21%	641 0.0%	383.750 7.4%	9,500	420,900	154,450 2.9% \$	976,150 18 5% \$	30 6% \$ 1,436,412 28.2% \$	628,650 11.9% 5		5 244,200 4 5% 5 6 1 001 CE0 31 CM 6	3,314,945 05.7% \$ 1,001,530 21.5% 5			45 3%	~		12,510 0 2%		147,550 2.8% 5	105 201	374,333 7 1%	1,921,300 36 5%	478,800 93% 5	\$ 1,115,200 21.6% \$	519,300 9 9% 5	31.4% \$ 1,252,450 23.9% \$	421,150 8 1% \$	312,119 5,9% 5
	Streets	1 500 010 30 046 6		2 205 350	1.602.104 31.4% 5			2,788,128 52.8%				2		1,180,789 22.4%	< KCUC U/C,COB/2	C 1/10 475 41 57 5				AC CC CLU,P2C,P			1,526,973 29 0% \$	\$ 3,105,911 62 2% S	5 1,596,154 30.3% S	\$ 1,437,061 27.2% \$ 976,150 18 5% \$	\$ 1,559,884 30 6% \$			3,398,773 54,0% 5	3, 314, 345 03. /% S	1,459,587	1,739,713 33 4% \$	30.4%	4.510,766 85 5%	5 2,068,366 39 2% 5 2,700,455 51 1%	3,720,863 70.5%	3,856,683 73 1% 5	4,160,348 78 8%		1.939.635 36 8%			2,001,001 38.8%	1,507,600	1,648,779 31.4% 5	\$ 2,151,175 41 2% \$ 421,150 81% \$ 170,132 33%	50 5 4 833 732 91 8% 5 312.119 5 9% 5 43.716
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OIG File #14-0430 Aldermanic Menu Program Audit

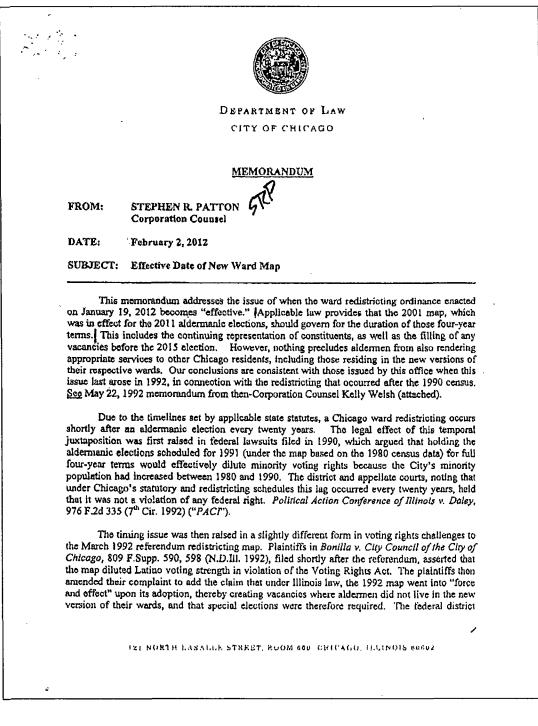
April 19, 2017

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## XI. <u>APPENDIX G: CORPORATION COUNSEL'S FEBRUARY 2, 2012, MEMORANDUM ON</u> <u>EFFECTIVE DATE OF NEW WARD MAP</u>

The Corporation Counsel's 2012 memorandum on the effective date of the new 2015 ward map (provided below) explains how and when ward boundaries become effective and how aldermen were to represent ward constituents based on the shifts in boundaries.



court, relying on PACI, held that this was not a viable federal claim, *Id.* at 598. The court declined to decide the state law claim of whether vacancies were created by the new map. *Id.* In early 1993, a state court lawsuit was also filed by some of the *Bonilla* plaintiffs, as well as others. *Garcia v. City of Chicago*, 93 CO 00020. The new case again asserted that the new map created vacancies and required special elections. Once again, the circuit court judge rejected this argument, and the affected aldermen served out their terms.

These cases establish that the 2011 aldermanic elections were for full four-year terms notwithstanding the intervening redistricting, and that these aldermen represent the constituencies which elected them. Further, if any of the aldermen elected in the 2011 elections leaves office prematurely, his or her replacement would be appointed or elected to represent and service the constituents of the ward as its boundaries existed in 2011.

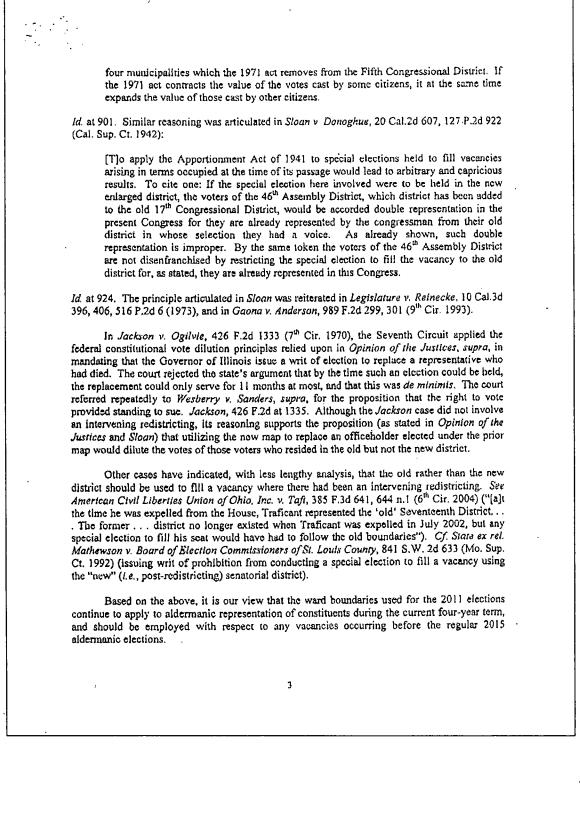
Although we have not found governing case law in Illinois on this precise point, cases in other jurisdictions bolster the view set forth above. Most of these cases arose in the context of filling vacancies in office occurring after an intervening redistricting. In Opinion of the Justices to the Governor, 361 Mass. 897, 282 N.E.2d 629 (Mass. Sup. Ct. 1972), the court held that the old map should be used for filling a vacancy in the office of Congressional representative notwithstanding an intervening redistricting:

The incumbent representative was elected by the people of the Fifth Congressional District as that district existed on November 3, 1970. In these circumstances, we are of opinion that, notwithstanding any change in district boundaries made subsequent to his election, he continues to represent the people of the cities and towns which chose him. In *Reynolds v. Sims*, 377 U.S. 533 [(1964)], the Supreme Court of the United States said: "Legislators are elected by voters." *Cf. Wesberry v. Sanders*, 376 U.S. 1, 7-9 [(1964)]. These cases indicate that a legislator represent a particular constituency, in the normal course of events he would serve that constituency for the duration of that Congress. We are of the opinion, therefore, that, if the incumbent does not serve his full term but ceases to serve during his term, the resulting vacancy . . . will then occur in the district from which he was elected to office.

Id. at 900. After noting that the relevant state statutes did not show an intent to apply the new apportionment to the special election at issue, the court went on to refer again to federal constitutional law:

The apportionment cases of the Supreme Court indicate that the right to vote includes the right not to have that vote diluted. See Wesberry v. Sanders, 376 U.S. 1, 7-9... Reynolds v. Sims 377 U.S. 533, 555. If the proposed special election were to be held in the new Fifth Congressional District, the voters of Woburn, Burlington, Reading, and Wakefield would be denied a voice in the replacement of their representative in the present Congress. By the same token, the voters of Acton, Ashby, Boxborough, Concord, Littleton, Townsend, and Westford would be allowed to participate in the selection of a seccessor [sic] to a representative whom they did not elect in the first place. Such a result might be thought to dilute the votes cast in the last general election by the residents of the

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As noted at the outset of this memo, the aldermen represent, and for administrative purposes (e.g. notifications) are associated with, the wards which elected them for a four-year term. Nevertheless, nothing in the cases cited above, or in applicable statutes, prevents aldermen from making additional efforts to assist any other resident of Chicago, including prospective constituents in the new version of his or her numbered ward. As discussed in the May 22, 1992 Welsh memorandum, this was the practice adopted after both the 1947 and the 1992 Chicago ward redistrictings: the aldermen continued to represent the wards that had elected them, but some also elected to provide appropriate services to constituents in the new wards that would become effective for future aldermanic elections. This approach continues to be valid and appropriate. 4

### CITY OF CHICAGO OFFICE OF INSPECTOR GENERAL

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	waste-fraud-and-abuse/

### MISSION

The City of Chicago Office of Inspector General (OIG) is an independent, nonpartisan oversight agency whose mission is to promote economy, efficiency, effectiveness, and integrity in the administration of programs and operations of City government. OIG achieves this mission through,

- administrative and criminal investigations;
- audits of City programs and operations; and
- reviews of City programs, operations, and policies.

From these activities, OIG issues reports of findings and disciplinary and other recommendations to assure that City officials, employees, and vendors are held accountable for the provision of efficient, cost-effective government operations and further to prevent, detect, identify, expose and eliminate waste, inefficiency, misconduct, fraud, corruption, and abuse of public authority and resources.

### AUTHORITY

The authority to produce reports and recommendations on ways to improve City operations is established in the City of Chicago Municipal Code § 2-56-030(c), which confers upon the Inspector General the following power and duty:

To promote economy, efficiency, effectiveness and integrity in the administration of the programs and operations of the city government by reviewing programs, identifying any inefficiencies, waste and potential for misconduct therein, and recommending to the mayor and the city council policies and methods for the elimination of inefficiencies and waste, and the prevention of misconduct.