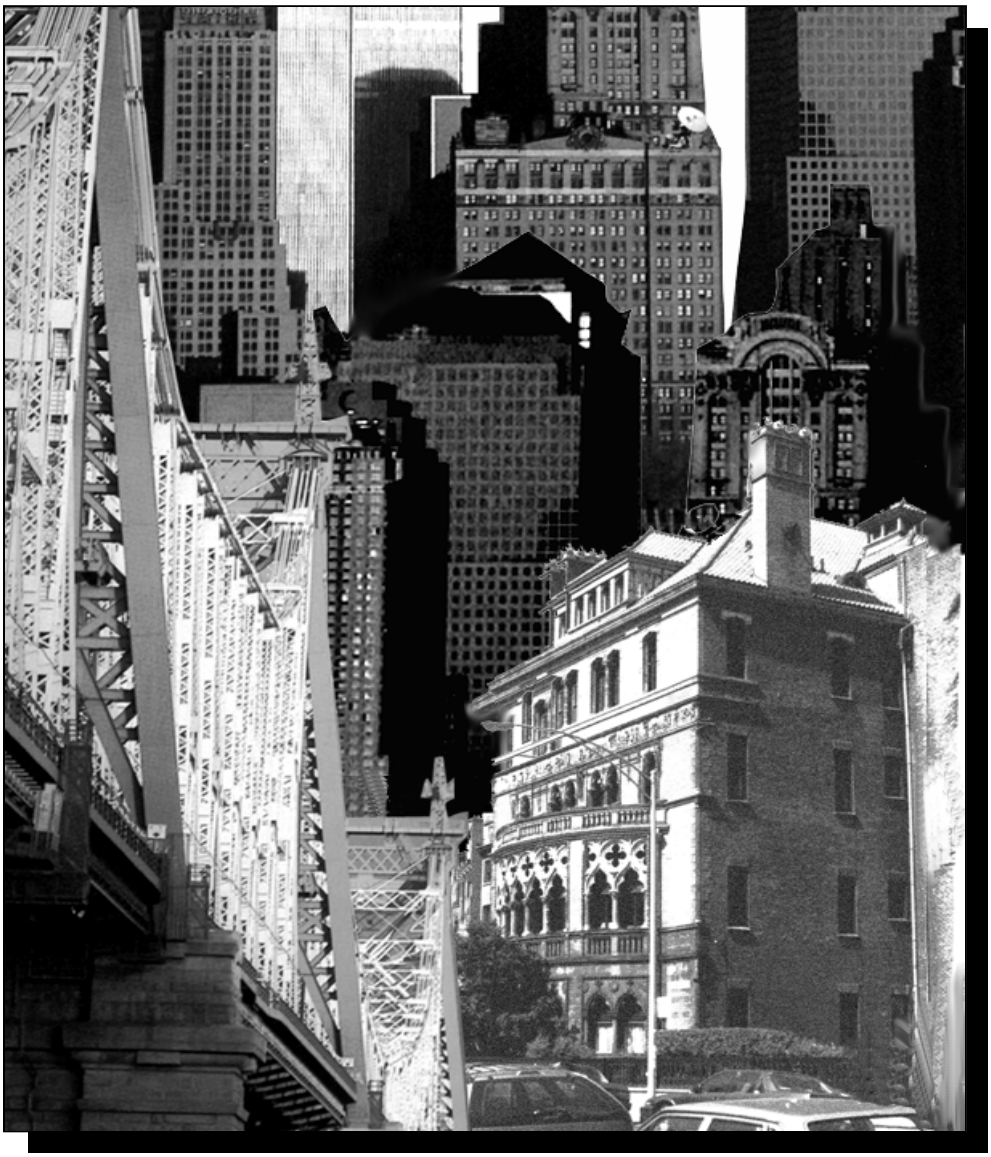
Asset Information Management System (AIMS) Report

Executive Summary



The City of New York
Bill de Blasio, Mayor

Fiscal Year 2016

THE CITY OF NEW YORK
OFFICE OF THE MAYOR
NEW YORK, N.Y. 10007

MEMORANDUM

TO: Melissa Mark-Viverito, Speaker, City Council
Carl Weisbrod, Chairman, City Planning Commission
Scott M. Stringer, Comptroller

FROM: Bill de Blasio, Mayor

DATE: November 10, 2015

SUBJECT: Asset Information Management System (AIMS) Executive Summary Report

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In accordance with Section 1110-a of the City Charter, I am transmitting herewith an Executive Summary of the maintenance schedules for the "major portions" of the City's physical plant as defined in that Section for the Fiscal Year 2016. The Charter requires each agency head to submit to the mayor a condition assessment and maintenance schedule necessary to preserve the structural integrity for each of their capital assets with a replacement cost of at least $10 million and a useful life in excess of ten years. The summary that I am transmitting relates to those maintenance schedules. Detailed information relating to each specific asset is available for review at the Office of Management and Budget.

Included in the summary is a description of the latest methodology used to compile the condition assessment and maintenance schedules. This summary, together with the details of the maintenance schedules and condition assessments, provides the City with a comprehensive assessment of the condition of its major assets, the projected costs necessary to restore these assets to a state of good repair and schedules detailing the maintenance required to maintain the assets' structural integrity. It does not address priorities or relative importance of any particular asset. A separate document will be published in the spring of 2016 comparing total funding recommended in the Fiscal Year 2016 report with the agencies' planned expense program for 2017 and capital program for 2017 through 2020.

The City of New York

Asset Information Management System (AIMS)

Condition and Maintenance Schedules For
Major Portions of the City's
Fixed Assets and Infrastructure

Fiscal Year 2016

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Exhibits

Background

The November 1988 amendments to the City Charter (Sec. 1110-a) included a requirement that the City compile an inventory of the major portions of its physical plant. Major portions of the physical plant are defined by the Charter to include all assets or asset systems with a replacement cost of ten million dollars or greater, and a useful life in excess of ten years. The Charter amendments also require each agency to assess the condition of their assets and prepare maintenance schedules for those assets. The condition assessments and the maintenance schedules are required to be published each year.

Assets leased to the Transit Authority, the New York City Water Finance Authority and to certain other public benefit corporations are excluded from the above Charter reporting requirements. Excluded also are all properties owned by the City as a result of in-rem proceedings. For the City University, only assets of the Community Colleges are included. Table A provides a Citywide breakdown of assets by classes.

The City Charter requires that a report be issued on an annual basis. The Office of Management and Budget has overall responsibility for the delivery of this yearly publication. This year building surveys were performed by The Department of Design and Construction. Waterfront, retaining wall, bridge and selected building surveys were performed by Gannett Fleming Inc. and their subconsultants. The Department of Transportation continued to survey the City's streets and highways using a 10-point assessment system.

Detailed condition reports and maintenance schedules (i.e. Agency Reports) were provided to agencies for their review and approval. This executive report summarizes all cost data from the agency condition and report schedules. A separate document (i.e. Agency Reconciliation) will be published next Spring to illustrate the comparison of funding recommended in this report with agencies' planned capital and expense activities.

Report Context and Items Excluded from Study

While the study is comprehensive, consistent with previous reports, a number of items and considerations were excluded from the condition review and cost estimates. They were not considered directly related to the "structural integrity" of the asset as required by the Charter. These include but are not limited to:

- Most equipment (electronic, fixed and movable)
- Special operating systems within assets
- Aesthetic considerations or special design elements
- Landscaping and outdoor elements
- Statuary or ornamental edifices

- Components not readily observable or accessible by field engineers
- Handicapped access requirements
- Information obtained through testing or probing
- Asbestos, lead paint, and other hazardous material identification and removal
- Programmatic needs not related to structural integrity
- Efficiency improvements
- Swing space costs/phasing costs, or premium time costs
- Components deficient in code or local law compliance but which do not impact on the integrity of the asset
- Assets known to be scheduled for near-term total replacement

It should be noted that in surveying piers and bulkheads, underwater surveys were not carried out. Therefore the condition reports for piers and bulkheads do not include those potential repairs that can only be determined by underwater surveys. Special systems include the four East River Bridges, traffic signal systems, street lighting systems and utilities. Due to their critical nature, these systems are not surveyed, but are updated yearly based on the agency's Ten Year Capital Strategy and contract information made available to OMB.

The report continues to reflect changes in the asset inventory every year. At the beginning of this survey year, each agency was requested to provide any additions, deletions or changes to the inventory of assets through new construction, acquisition, sale or demolition.

The asset condition and maintenance schedule report is not a budget document, but rather a broad, unrestrained analysis of a subset of general needs. It serves as a planning tool in addressing overall citywide funding requirements. The report does not attempt in any manner to balance the City's asset and infrastructure requirements against other important City needs, nor does it attempt to make any funding recommendations between the needs of different agencies. It is a general prioritization to indicate to agencies the relative importance of various repairs and maintenance items to the preservation of the assets.

Due to the complexity of the analysis, the large scale of the project, the amount of estimation required, and the necessary methodology constraints, there are inherent limitations to the level of accuracy possible at the detailed asset and component level.

In this context it should be noted that the actual cost for a project may vary substantially from the amount estimated in this report when a detailed scope of work and cost estimate is completed. Agencies will not be restricted to any asset specific number contained in the reports when planning and developing their budget requests. It is further understood that there will be work items (i.e., programmatic) excluded from this study which may require additional expenditures.

Report Organization

Report Schedules

This publication contains two major summaries: CITYWIDE SUMMARY SCHEDULES and AGENCY SUMMARY SCHEDULES.

Capital and Expense Designations

Repairs, replacement and major maintenance costs are all presented at the detailed component level in the Agency Reports. Repairs are defined as reconstruction or renovation. For convenience and citywide reporting purposes, this report presents the cost categories by their appropriate expense budget and capital budget classification. The rules for classifying individual items are as follows:

Cost Item	***Budget Classification***
Repairs greater than $35,000 AND remaining component life of 5 years or greater Replacements greater than $35,000 Major Maintenance programs greater than $35,000 at the component type level	Capital
Repairs less than $35,000 OR remaining component life less than 5 years Replacements less than $35,000 Major Maintenance programs less than $35,000 at the component type level	Expense

Projected Repair Years

- Expense Budget - Items of need are shown over the next four years
- Capital Budget - Items of need are shown over the next ten years, grouped by periods of four and six years

It should be noted that for reporting purposes all asset component repairs are presented in the funding need for the upcoming fiscal year. This in essence reflects the amounts estimated to "catch up" and bring all assets to a "state of good repair". In reality, even if funding was available to do everything, it would be beyond the ability of City agencies to plan, design, and implement the work within a single year. The actual work, which can be funded, will operationally have to be spread out over a number of years.

Importance Codes for Repair, Replacement and Major Maintenance

In the citywide report, component repair, replacement and major maintenance are assigned an A, B, C or D rating. Each component has been assigned an importance to the structural integrity of the assets. For example, architectural exterior components of buildings (i.e. roofs, parapets, exterior walls and windows) are classified as key components and receive higher importance than architectural interior components because of their relative importance in maintaining structural integrity of the assets. (See Exhibit A)

Condition Information

The summary maintenance schedules presented in the citywide executive report represent the maintenance requirements developed from the condition surveys of individual assets. Actual condition data on any particular asset is contained in the Agency Reports. A typical example of an Agency Report and a detailed discussion of the project methodology are included in the technical notes of this report. (See Exhibits B, C)

Professional Certification

The Charter requires a statement by a registered Professional Engineer (PE) or Registered Architect (RA) regarding the reasonableness of the repair/replacement and maintenance schedules for each agency's assets. Certifications are provided by the Department of Design and Construction, the Department of Transportation, Gannett Fleming Inc., and their subconsultants.

Table A
Citywide Asset Classes by Agency

New York, Brooklyn, Queens Public Libraries	
Libraries	103
Department of Education	
Primary Schools	807
Intermediate/Junior High Schools	201
High Schools	180
Administrative Buildings	10
Piers/Bulkheads	2
City University of New York	
Community College Buildings	84
Piers/Bulkheads	3
Parking Garages	1
Police Department	
Precinct Houses	79
Police Buildings Non-Precinct	68
Piers/Bulkheads	3
Marinas/Docks	4
Fire Department	
Fire Department Buildings	50
Piers/Bulkheads	3
Firehouses	57
Marinas/Docks	1
Fireboats	5
Administration for Children's Services	
Shelters	2
Non-Shelters	2
Day Care Centers	5
Department of Homeless Services	
Shelters	61
Non-Shelters	2
Department of Correction	
Rikers Island Facilities/Utilities	40
Correction Facilities	5
Piers/Bulkheads	2
Marinas/Docks	1
Human Resources Administration	
Shelters	8
Non-Shelters	8
Department for the Aging	
Senior Center	13
Department of Cultural Affairs	
Museum/Gallery Facilities	65
Cultural Facilities	224
Division of Youth & Family Justice	
Juvenile Justice Buildings	4
Taxi & Limousine Commission	
Vehicle Maint./Storage Facilities	1

Department of Small Business Services	
Shelters	1
Museum/Gallery Facilities	3
Terminals/Markets	56
Piers/Bulkheads	177
Parking Garages	1
Ferry Terminal Facilities	2
Marinas/Docks	6
Department of Health & Mental Hygiene	
Administrative Buildings	1
Clinics/Labs. Classrooms	26
Vehicle Maint./Storage Facilities	1
Animal Shelters	3
Health and Hospitals Corporation	
Hospital Buildings	91
Department of Sanitation	
Piers/Bulkheads	32
Transfer Stations	5
Vehicle Maint./Storage Facilities	41
Fresh Kills Facilities	17
Department of Transportation	
Bridge/Waterways	38
Highway Bridges and Tunnels	86
Highway Facilities	45
Streets and Arterials (miles)	6,500
Street Lighting Systems	1
Traffic Signal Systems	1
Ferry Terminal Facilities	5
Piers/Bulkheads	26
Ferries/Barges	8
Pier Facilities	3
Parking Garages	9
Marinas/Docks	15
Department of Parks and Recreation	
Museum/Gallery Facilities	16
Piers/Bulkheads	138
Vehicle Maint./Storage Facilities	4
Park Facilities	717
Stadium Facilities	5
Marinas/Docks	26
Walls	276
Park Bridges	97
Dept. of Citywide Administrative Services	
Piers/Bulkheads	10
Court Buildings	23
Public Office Buildings	34

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Citywide Summary Schedule

CITYWIDE SUMMARY SCHEDULE BY AGENCY

Asset Information Management System (AIMS)
Report on Estimated Cost for Repairs, Replacements, Major Maintenance

	CAPITAL FY 2017 - 2020	EXPENSE FY 2017
• NEW YORK PUBLIC LIBRARY	30,605,000	6,175,000
• BROOKLYN PUBLIC LIBRARY	15,191,000	2,699,000
• QUEENS PUBLIC LIBRARY	11,115,000	1,310,000
• DEPARTMENT OF EDUCATION	2,021,194,000	158,668,000
• CITY UNIVERSITY OF NEW YORK	99,303,000	11,168,000
• POLICE DEPARTMENT	90,348,000	12,152,000
• FIRE DEPARTMENT	20,107,000	10,265,000
• ADMIN. FOR CHILDREN'S SERVICES	1,226,000	881,000
• DEPT. OF HOMELESS SERVICES	68,259,000	6,345,000
• DEPARTMENT OF CORRECTION	303,186,000	7,333,000
• HUMAN RESOURCES ADMINISTRATION	18,915,000	2,148,000
• DEPARTMENT FOR THE AGING	1,797,000	1,455,000
• DEPARTMENT OF CULTURAL AFFAIRS	130,983,000	19,970,000
• DIV. OF YOUTH & FAMILY JUSTICE	901,000	364,000
• TAXI & LIMOUSINE COMMISSION	1,542,000	92,000
• DEPT. OF SMALL BUSINESS SERV.	249,654,000	10,216,000
• DEPT. OF HEALTH & MENTAL HYGIENE	28,006,000	3,550,000
• HEALTH AND HOSPITALS CORP.	278,518,000	18,988,000
• DEPARTMENT OF SANITATION	146,956,000	8,211,000
• DEPARTMENT OF TRANSPORTATION		
Bridges	491,732,000	23,657,000
Facilities & Ferries	68,801,000	7,790,000
Street & Traffic Lighting	50,312,000	62,466,000
Streets & Highways	2,328,110,000	
• DEPT. OF PARKS & RECREATION	555,628,000	33,875,000
• DEPT. OF CITYWIDE ADMIN. SERV.	197,508,000	23,810,000
Total	**$7,209,896,000***	**$433,589,000**

** Investment necessary to bring assets to a State of Good Repair*

Notes : All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars. Special systems include the four East River Bridges, traffic signal systems, street lighting systems and utilities. Due to their critical nature, these systems are not surveyed, but are updated yearly based on the agency's Ten Year Capital Strategy and contract information made available to OMB. Costs for Streets and Arterials beyond the Four Year Plan are not included in summary.

CITYWIDE SUMMARY SCHEDULE

Asset Information Management System (AIMS)
Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	1,311,817,000	801,036,000
• Interior Architecture	1,084,557,000	1,169,659,000
• Electrical	858,721,000	2,932,095,000
• Mechanical	473,677,000	1,805,311,000
• Piers	43,176,000	28,389,000
• Bulkheads	130,751,000	130,853,000
• Bridge Structure	468,475,000	256,347,000
• Ferries	27,700,000	
• Vessels		
• Parks' Walls	45,721,000	452,000
• Parks' Boardwalks	56,237,000	57,968,000
• Miscellaneous Buildings	47,904,000	23,132,000
• Parks' Water and Sewer Utilities	107,299,000	160,949,000
• Parks' Electrical Utilities	32,285,000	48,427,000
• Elevators/Escalators		
• Parks' Streets and Roads	71,653,000	20,124,000
• Rikers Island Utilities	5,200,000	
• Park Bridges	25,534,000	8,623,000
• Marinas/Docks	17,511,000	31,364,000
• Bridge Electrical	9,654,000	13,412,000
• Bridge Mechanical	13,603,000	1,175,000
• Primary Streets	385,260,000	
• Secondary Streets	541,830,000	
• Local Streets	1,334,560,000	
• Arterial Streets	40,000,000	
• Step Streets	26,460,000	
• Traffic Signal System	15,346,000	
• Street Lighting System	34,966,000	
Total	**$7,209,896,000** *	**$7,489,316,000**

• Importance Code A	2,075,711,000	1,219,224,000
• Importance Code B	3,373,103,000	5,860,798,000
• Importance Code C	1,615,065,000	366,038,000
• Importance Code D	146,017,000	43,256,000
Total	**$7,209,896,000** *	**$7,489,316,000**

** Investment necessary to bring assets to a State of Good Repair*

Note : Costs are in current dollars and are not escalated for potential future inflation.
Dollars beyond the 4 year plan for Streets and City owned Arterials are not included in summary.

CITYWIDE SUMMARY SCHEDULE (cont.)

Asset Information Management System (AIMS)
Report on Estimated Cost for Repairs, Replacements, Major Maintenance

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	63,327,000	9,382,000	10,855,000	8,142,000
• Interior Architecture	113,660,000	15,748,000	39,024,000	32,937,000
• Electrical	32,617,000	22,077,000	24,018,000	22,092,000
• Mechanical	86,549,000	55,201,000	75,421,000	56,706,000
• Piers	3,050,000	170,000	323,000	647,000
• Bulkheads	7,059,000	410,000	367,000	235,000
• Bridge Structure	21,318,000	12,819,000	26,080,000	14,654,000
• Ferries	3,648,000			
• Vessels	583,000	600,000	1,622,000	637,000
• Parks' Walls	3,575,000			
• Parks' Boardwalks	109,000			
• Miscellaneous Buildings	3,562,000	932,000	914,000	1,163,000
• Parks' Water and Sewer Utilities	2,682,000	2,682,000	2,682,000	2,682,000
• Parks' Electrical Utilities	808,000	808,000	808,000	808,000
• Elevators/Escalators	18,360,000	18,298,000	18,298,000	18,298,000
• Parks' Streets and Roads				
• Rikers Island Utilities	1,750,000	1,750,000	1,750,000	1,750,000
• Park Bridges	4,485,000	8,000	6,000	771,000
• Marinas/Docks	1,643,000	265,000	508,000	804,000
• Bridge Electrical	780,000	69,000	100,000	80,000
• Bridge Mechanical	1,559,000	86,000	638,000	98,000
• Primary Streets				
• Secondary Streets				
• Local Streets				
• Arterial Streets				
• Step Streets				
• Traffic Signal System	39,066,000	42,322,000	42,322,000	42,322,000
• Street Lighting System	23,400,000	23,400,000	23,400,000	23,400,000
Total	**$433,589,000**	**$207,028,000**	**$269,136,000**	**$228,227,000**

• Importance Code A	168,321,000	104,204,000	114,637,000	105,144,000
• Importance Code B	220,684,000	100,367,000	151,152,000	119,736,000
• Importance Code C	41,023,000	1,526,000	2,434,000	2,184,000
• Importance Code D	3,562,000	932,000	914,000	1,163,000
Total	**$433,589,000**	**$207,028,000**	**$269,136,000**	**$228,227,000**

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Report Schedules by Agency

NEW YORK PUBLIC LIBRARY - 035

Project Type : NEW YORK PUBLIC LIBRARY

LIBRARIES	:	54
Total Assets in AIMS	:	**54**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	9,938,000	4,499,000
• Interior Architecture	3,805,000	8,443,000
• Electrical	11,865,000	20,360,000
• Mechanical	4,998,000	22,957,000
Total	**$30,605,000** *	**$56,259,000**
• Importance Code A	10,245,000	4,595,000
• Importance Code B	20,054,000	48,797,000
• Importance Code C	305,000	2,866,000
Total	**$30,605,000** *	**$56,259,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	1,419,000	81,000	196,000	209,000
• Interior Architecture	2,610,000	1,021,000	261,000	1,759,000
• Electrical	762,000	350,000	1,036,000	149,000
• Mechanical	1,084,000	561,000	1,207,000	570,000
• Elevators/Escalators	298,000	298,000	298,000	298,000
Total	**$6,175,000**	**$2,311,000**	**$2,999,000**	**$2,985,000**
• Importance Code A	1,564,000	164,000	303,000	286,000
• Importance Code B	4,252,000	2,139,000	2,686,000	2,696,000
• Importance Code C	359,000	8,000	10,000	3,000
• Importance Code D				
Total	**$6,175,000**	**$2,311,000**	**$2,999,000**	**$2,985,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

BROOKLYN PUBLIC LIBRARY - 038

Project Type : BROOKLYN PUBLIC LIBRARY

LIBRARIES	:	32
Total Assets in AIMS	:	**32**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	6,746,000	2,122,000
• Interior Architecture	1,979,000	2,092,000
• Electrical	4,442,000	15,556,000
• Mechanical	2,023,000	7,380,000
Total	**$15,191,000** *	**$27,150,000**
• Importance Code A	6,746,000	2,295,000
• Importance Code B	8,356,000	24,749,000
• Importance Code C	89,000	106,000
Total	**$15,191,000** *	**$27,150,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	1,116,000	23,000	104,000	84,000
• Interior Architecture	864,000	34,000	84,000	512,000
• Electrical	246,000	51,000	348,000	66,000
• Mechanical	337,000	183,000	440,000	198,000
• Elevators/Escalators	136,000	136,000	136,000	136,000
Total	**$2,699,000**	**$426,000**	**$1,111,000**	**$997,000**
• Importance Code A	1,184,000	82,000	169,000	143,000
• Importance Code B	1,256,000	337,000	939,000	852,000
• Importance Code C	259,000	7,000	3,000	1,000
• Importance Code D				
Total	**$2,699,000**	**$426,000**	**$1,111,000**	**$997,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

QUEENS PUBLIC LIBRARY - 039

Project Type : QUEENS PUBLIC LIBRARY

LIBRARIES	:	17
Total Assets in AIMS	:	**17**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	2,565,000	1,696,000
• Interior Architecture	1,234,000	1,712,000
• Electrical	4,327,000	3,532,000
• Mechanical	2,988,000	1,640,000
Total	**$11,115,000** *	**$8,580,000**
• Importance Code A	2,565,000	1,799,000
• Importance Code B	7,959,000	6,707,000
• Importance Code C	590,000	74,000
Total	**$11,115,000** *	**$8,580,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	295,000	84,000	69,000	34,000
• Interior Architecture	463,000	248,000	91,000	210,000
• Electrical	220,000	124,000	264,000	44,000
• Mechanical	270,000	166,000	333,000	167,000
• Elevators/Escalators	63,000	63,000	63,000	63,000
Total	**$1,310,000**	**$685,000**	**$820,000**	**$518,000**
• Importance Code A	331,000	113,000	103,000	63,000
• Importance Code B	944,000	570,000	714,000	454,000
• Importance Code C	36,000	2,000	2,000	1,000
• Importance Code D				
Total	**$1,310,000**	**$685,000**	**$820,000**	**$518,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

DEPARTMENT OF EDUCATION - 040

Project Type : EDUCATION

PRIMARY SCHOOLS	:	807
INTERMEDIATE/JUNIOR HIGH SCHOOLS	:	201
HIGH SCHOOLS	:	180
ADMINISTRATIVE BUILDINGS	:	10
PIERS/BULKHEADS	:	2
Total Assets in AIMS	:	**1,200**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	450,756,000	344,569,000
• Interior Architecture	710,687,000	579,607,000
• Electrical	611,320,000	1,364,444,000
• Mechanical	247,347,000	1,077,390,000
• Bulkheads	1,084,000	1,053,000
Total	**$2,021,194,000** *	**$3,367,063,000**
• Importance Code A	503,215,000	498,234,000
• Importance Code B	1,398,333,000	2,809,693,000
• Importance Code C	119,646,000	59,136,000
Total	**$2,021,194,000** *	**$3,367,063,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	28,815,000	5,325,000	6,386,000	4,840,000
• Interior Architecture	58,452,000	9,416,000	11,861,000	16,400,000
• Electrical	16,141,000	11,710,000	12,138,000	12,077,000
• Mechanical	50,298,000	31,600,000	42,774,000	32,874,000
• Bulkheads	4,000	0		
• Elevators/Escalators	4,958,000	4,935,000	4,935,000	4,935,000
Total	**$158,668,000**	**$62,986,000**	**$78,092,000**	**$71,126,000**
• Importance Code A	38,995,000	16,803,000	17,872,000	16,324,000
• Importance Code B	99,023,000	45,443,000	58,918,000	54,087,000
• Importance Code C	20,650,000	740,000	1,302,000	716,000
• Importance Code D				
Total	**$158,668,000**	**$62,986,000**	**$78,092,000**	**$71,126,000**

** Investment necessary to bring assets to a State of Good Repair*

Notes : All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars. The AIMS Report represents a small percentage of a comprehensive inspection utilized by the School Construction Authority in assessing capital planning priorities. The AIMS Report offers supplemental inspection data as an additional reference but does not claim to represent the full context of capital needs in New York City public schools.

CITY UNIVERSITY OF NEW YORK - 042

Project Type : CITY UNIVERSITY OF NEW YORK

COMMUNITY COLLEGE BUILDINGS	:	84
PIERS/BULKHEADS	:	3
PARKING GARAGES	:	1
Total Assets in AIMS	:	**88**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	38,156,000	24,756,000
• Interior Architecture	17,948,000	22,714,000
• Electrical	18,361,000	95,552,000
• Mechanical	24,246,000	88,166,000
• Bulkheads	403,000	1,054,000
• Miscellaneous Buildings	190,000	182,000
Total	**$99,303,000** *	**$232,424,000**
• Importance Code A	42,908,000	27,245,000
• Importance Code B	54,046,000	202,077,000
• Importance Code C	2,160,000	2,920,000
• Importance Code D	190,000	182,000
Total	**$99,303,000** *	**$232,424,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	2,522,000	325,000	437,000	332,000
• Interior Architecture	3,621,000	639,000	3,237,000	3,115,000
• Electrical	1,184,000	828,000	786,000	855,000
• Mechanical	3,022,000	2,213,000	2,711,000	2,225,000
• Bulkheads	10,000	11,000	10,000	
• Miscellaneous Buildings	33,000	9,000	13,000	9,000
• Elevators/Escalators	776,000	776,000	776,000	776,000
Total	**$11,168,000**	**$4,802,000**	**$7,970,000**	**$7,313,000**
• Importance Code A	2,946,000	646,000	737,000	697,000
• Importance Code B	7,644,000	4,089,000	7,168,000	6,564,000
• Importance Code C	546,000	57,000	53,000	42,000
• Importance Code D	33,000	9,000	13,000	9,000
Total	**$11,168,000**	**$4,802,000**	**$7,970,000**	**$7,313,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

POLICE DEPARTMENT - 056

Project Type : POLICE

PRECINCT HOUSES	:	79
POLICE BUILDINGS NON-PRECINCT	:	68
PIERS/BULKHEADS	:	3
MARINAS/DOCKS	:	4
Total Assets in AIMS	:	**154**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	32,838,000	14,133,000
• Interior Architecture	25,750,000	21,468,000
• Electrical	13,994,000	88,136,000
• Mechanical	11,707,000	53,644,000
• Piers	2,024,000	242,000
• Bulkheads		558,000
• Miscellaneous Buildings	3,956,000	3,205,000
• Marinas/Docks	79,000	1,925,000
Total	**$90,348,000** *	**$183,312,000**
• Importance Code A	33,985,000	17,378,000
• Importance Code B	49,192,000	161,565,000
• Importance Code C	3,215,000	1,164,000
• Importance Code D	3,956,000	3,205,000
Total	**$90,348,000** *	**$183,312,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	3,248,000	498,000	374,000	329,000
• Interior Architecture	3,909,000	274,000	343,000	555,000
• Electrical	1,373,000	1,212,000	956,000	755,000
• Mechanical	2,740,000	1,923,000	2,246,000	2,137,000
• Piers	18,000			
• Bulkheads	60,000	1,000		4,000
• Miscellaneous Buildings	294,000	97,000	148,000	102,000
• Elevators/Escalators	338,000	338,000	338,000	338,000
• Marinas/Docks	172,000	24,000	57,000	132,000
Total	**$12,152,000**	**$4,369,000**	**$4,463,000**	**$4,352,000**
• Importance Code A	3,748,000	773,000	675,000	691,000
• Importance Code B	6,602,000	3,465,000	3,577,000	3,529,000
• Importance Code C	1,509,000	33,000	62,000	30,000
• Importance Code D	294,000	97,000	148,000	102,000
Total	**$12,152,000**	**$4,369,000**	**$4,463,000**	**$4,352,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

FIRE DEPARTMENT - 057

Project Type : FIRE DEPARTMENT

FIRE DEPARTMENT BUILDINGS	:	50
PIERS/BULKHEADS	:	3
FIREHOUSES	:	57
MARINAS/DOCKS	:	1
FIREBOATS	:	5
Total Assets in AIMS	:	**116**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	10,895,000	5,330,000
• Interior Architecture	4,038,000	3,257,000
• Electrical	2,844,000	8,801,000
• Mechanical	967,000	2,883,000
• Piers	736,000	101,000
• Bulkheads	52,000	
• Vessels		
• Miscellaneous Buildings	382,000	186,000
• Marinas/Docks	193,000	234,000
Total	**$20,107,000** *	**$20,792,000**
• Importance Code A	11,710,000	5,871,000
• Importance Code B	7,250,000	13,809,000
• Importance Code C	765,000	926,000
• Importance Code D	382,000	186,000
Total	**$20,107,000** *	**$20,792,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	3,006,000	127,000	350,000	148,000
• Interior Architecture	4,338,000	74,000	217,000	156,000
• Electrical	863,000	351,000	382,000	179,000
• Mechanical	1,249,000	488,000	749,000	382,000
• Piers	95,000		7,000	5,000
• Bulkheads	27,000	1,000		0
• Vessels	583,000	600,000	1,622,000	637,000
• Miscellaneous Buildings	39,000	11,000	19,000	10,000
• Elevators/Escalators	67,000	29,000	29,000	29,000
• Marinas/Docks	1,000	0	6,000	0
Total	**$10,265,000**	**$1,680,000**	**$3,381,000**	**$1,547,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

FIRE DEPARTMENT - 057

• Importance Code	A	3,825,000	817,000	2,064,000	874,000
• Importance Code	B	4,836,000	847,000	1,281,000	635,000
• Importance Code	C	1,565,000	4,000	16,000	28,000
• Importance Code	D	39,000	11,000	19,000	10,000
Total		**$10,265,000**	**$1,680,000**	**$3,381,000**	**$1,547,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

ADMIN. FOR CHILDREN'S SERVICES - 068

Project Type : CHILDREN'S SERVICES

SHELTERS	:	2
NON-SHELTERS	:	2
DAY CARE CENTERS	:	5
Total Assets in AIMS	:	**9**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	531,000	262,000
• Interior Architecture	412,000	520,000
• Electrical	153,000	850,000
• Mechanical	130,000	1,042,000
Total	**$1,226,000** *	**$2,674,000**
• Importance Code A	531,000	332,000
• Importance Code B	479,000	2,132,000
• Importance Code C	216,000	210,000
Total	**$1,226,000** *	**$2,674,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	354,000	12,000	8,000	9,000
• Interior Architecture	266,000	17,000	42,000	16,000
• Electrical	33,000	25,000	61,000	59,000
• Mechanical	179,000	70,000	112,000	133,000
• Elevators/Escalators	49,000	49,000	49,000	49,000
Total	**$881,000**	**$173,000**	**$272,000**	**$266,000**
• Importance Code A	385,000	22,000	19,000	20,000
• Importance Code B	415,000	149,000	251,000	245,000
• Importance Code C	82,000	2,000	3,000	1,000
• Importance Code D				
Total	**$881,000**	**$173,000**	**$272,000**	**$266,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

DEPT. OF HOMELESS SERVICES - 071

Project Type : HOMELESS SERVICES

SHELTERS	:	61
NON-SHELTERS	:	2
Total Assets in AIMS	:	**63**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	29,725,000	11,751,000
• Interior Architecture	20,561,000	24,676,000
• Electrical	12,314,000	158,511,000
• Mechanical	5,658,000	29,204,000
Total	**$68,259,000** *	**$224,142,000**
• Importance Code A	30,391,000	13,636,000
• Importance Code B	33,318,000	207,501,000
• Importance Code C	4,550,000	3,005,000
Total	**$68,259,000** *	**$224,142,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	1,753,000	308,000	284,000	111,000
• Interior Architecture	1,871,000	367,000	256,000	458,000
• Electrical	634,000	407,000	432,000	621,000
• Mechanical	1,701,000	1,018,000	1,412,000	1,264,000
• Elevators/Escalators	385,000	385,000	385,000	385,000
Total	**$6,345,000**	**$2,485,000**	**$2,768,000**	**$2,839,000**
• Importance Code A	2,039,000	595,000	567,000	396,000
• Importance Code B	3,634,000	1,856,000	2,171,000	2,403,000
• Importance Code C	671,000	34,000	31,000	40,000
• Importance Code D				
Total	**$6,345,000**	**$2,485,000**	**$2,768,000**	**$2,839,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

DEPARTMENT OF CORRECTION - 072

Project Type : CORRECTION

RIKERS ISLAND FACILITIES	:	34
CORRECTION FACILITIES	:	5
PIERS/BULKHEADS	:	2
RIKERS ISLAND UTILITIES	:	6
MARINAS/DOCKS	:	1
Total Assets in AIMS	:	**48**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	210,353,000	166,711,000
• Interior Architecture	51,219,000	54,852,000
• Electrical	11,627,000	371,219,000
• Mechanical	19,941,000	76,825,000
• Piers	2,063,000	44,000
• Bulkheads	2,742,000	1,814,000
• Rikers Island Utilities	5,200,000	
• Marinas/Docks	41,000	314,000
Total	**$303,186,000** *	**$671,777,000**
• Importance Code A	214,616,000	172,663,000
• Importance Code B	75,415,000	495,896,000
• Importance Code C	13,155,000	3,219,000
Total	**$303,186,000** *	**$671,777,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	601,000	43,000	61,000	8,000
• Interior Architecture	1,594,000	75,000	172,000	378,000
• Electrical	927,000	644,000	638,000	597,000
• Mechanical	1,709,000	998,000	1,476,000	891,000
• Piers	106,000	2,000		22,000
• Bulkheads	89,000	0	0	5,000
• Elevators/Escalators	514,000	514,000	514,000	514,000
• Rikers Island Utilities	1,750,000	1,750,000	1,750,000	1,750,000
• Marinas/Docks	42,000	4,000	42,000	7,000
Total	**$7,333,000**	**$4,030,000**	**$4,653,000**	**$4,173,000**
• Importance Code A	1,196,000	499,000	595,000	465,000
• Importance Code B	5,430,000	3,526,000	4,011,000	3,667,000
• Importance Code C	706,000	5,000	46,000	41,000
• Importance Code D				
Total	**$7,333,000**	**$4,030,000**	**$4,653,000**	**$4,173,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

HUMAN RESOURCES ADMINISTRATION - 096

Project Type : HUMAN RESOURCES

SHELTERS	:	8
NON-SHELTERS	:	8
Total Assets in AIMS	:	**16**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	7,810,000	2,019,000
• Interior Architecture	4,957,000	2,949,000
• Electrical	4,021,000	12,797,000
• Mechanical	2,127,000	3,862,000
Total	**$18,915,000** *	**$21,627,000**
• Importance Code A	8,392,000	2,369,000
• Importance Code B	9,234,000	18,950,000
• Importance Code C	1,288,000	308,000
Total	**$18,915,000** *	**$21,627,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	811,000	61,000	54,000	
• Interior Architecture	928,000	80,000	37,000	167,000
• Electrical	63,000	121,000	148,000	50,000
• Mechanical	304,000	189,000	320,000	167,000
• Elevators/Escalators	41,000	41,000	41,000	41,000
Total	**$2,148,000**	**$493,000**	**$602,000**	**$426,000**
• Importance Code A	855,000	130,000	102,000	47,000
• Importance Code B	1,066,000	350,000	494,000	379,000
• Importance Code C	227,000	12,000	6,000	
• Importance Code D				
Total	**$2,148,000**	**$493,000**	**$602,000**	**$426,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

DEPARTMENT FOR THE AGING - 125

Project Type : AGING

SENIOR CENTER	:	13
Total Assets in AIMS	:	**13**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	642,000	262,000
• Interior Architecture	295,000	319,000
• Electrical	274,000	1,978,000
• Mechanical	83,000	636,000
• Miscellaneous Buildings	502,000	342,000
Total	**$1,797,000** *	**$3,538,000**
• Importance Code A	642,000	341,000
• Importance Code B	587,000	2,855,000
• Importance Code C	66,000	
• Importance Code D	502,000	342,000
Total	**$1,797,000** *	**$3,538,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	172,000	15,000	8,000	
• Interior Architecture	878,000	15,000	12,000	40,000
• Electrical	118,000	70,000	65,000	26,000
• Mechanical	193,000	122,000	165,000	46,000
• Miscellaneous Buildings	51,000	21,000	27,000	20,000
• Elevators/Escalators	42,000	42,000	42,000	42,000
Total	**$1,455,000**	**$285,000**	**$320,000**	**$175,000**
• Importance Code A	204,000	24,000	19,000	9,000
• Importance Code B	1,104,000	238,000	272,000	144,000
• Importance Code C	96,000	2,000	2,000	2,000
• Importance Code D	51,000	21,000	27,000	20,000
Total	**$1,455,000**	**$285,000**	**$320,000**	**$175,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

DEPARTMENT OF CULTURAL AFFAIRS - 126

Project Type : CULTURAL AFFAIRS

MUSEUM/GALLERY FACILITIES	:	65
CULTURAL FACILITIES	:	224
Total Assets in AIMS	:	**289**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	71,318,000	33,717,000
• Interior Architecture	22,089,000	75,867,000
• Electrical	20,423,000	76,514,000
• Mechanical	13,625,000	57,737,000
• Miscellaneous Buildings	3,527,000	2,912,000
Total	**$130,983,000** *	**$246,746,000**
• Importance Code A	71,688,000	36,834,000
• Importance Code B	51,806,000	147,513,000
• Importance Code C	3,962,000	59,488,000
• Importance Code D	3,527,000	2,912,000
Total	**$130,983,000** *	**$246,746,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	4,283,000	818,000	496,000	535,000
• Interior Architecture	7,848,000	993,000	4,328,000	1,269,000
• Electrical	1,727,000	1,272,000	1,376,000	1,032,000
• Mechanical	4,300,000	2,685,000	2,900,000	2,366,000
• Miscellaneous Buildings	637,000	176,000	155,000	160,000
• Elevators/Escalators	1,174,000	1,174,000	1,174,000	1,174,000
Total	**$19,970,000**	**$7,117,000**	**$10,430,000**	**$6,536,000**
• Importance Code A	4,544,000	1,041,000	760,000	763,000
• Importance Code B	13,474,000	5,890,000	9,419,000	5,575,000
• Importance Code C	1,315,000	11,000	95,000	38,000
• Importance Code D	637,000	176,000	155,000	160,000
Total	**$19,970,000**	**$7,117,000**	**$10,430,000**	**$6,536,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

DIV. OF YOUTH & FAMILY JUSTICE - 130

Project Type : JUVENILE JUSTICE

JUVENILE JUSTICE BUILDINGS	:	4
Total Assets in AIMS	:	**4**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	161,000	857,000
• Interior Architecture	336,000	1,608,000
• Electrical	195,000	
• Mechanical	209,000	1,916,000
Total	**$901,000** *	**$4,381,000**
• Importance Code A	161,000	947,000
• Importance Code B	740,000	3,341,000
• Importance Code C		93,000
Total	**$901,000** *	**$4,381,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	163,000	93,000	24,000	1,000
• Interior Architecture	74,000	23,000		15,000
• Electrical	31,000	70,000	60,000	31,000
• Mechanical	81,000	60,000	149,000	40,000
• Elevators/Escalators	16,000	16,000	16,000	16,000
Total	**$364,000**	**$262,000**	**$249,000**	**$103,000**
• Importance Code A	174,000	108,000	36,000	13,000
• Importance Code B	172,000	154,000	213,000	90,000
• Importance Code C	18,000	0		
• Importance Code D				
Total	**$364,000**	**$262,000**	**$249,000**	**$103,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

TAXI & LIMOUSINE COMMISSION - 156

Project Type : PUBLIC BUILDINGS

VEHICLE MAINT./STORAGE FACILITIES : 1

Total Assets in AIMS : 1

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	659,000	768,000
• Interior Architecture	587,000	442,000
• Electrical	112,000	50,000
• Mechanical	184,000	40,000
Total	**$1,542,000** *	**$1,299,000**
• Importance Code A	659,000	768,000
• Importance Code B	690,000	531,000
• Importance Code C	193,000	
Total	**$1,542,000** *	**$1,299,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	43,000	14,000		
• Interior Architecture	4,000		53,000	6,000
• Electrical	5,000	12,000	4,000	4,000
• Mechanical	39,000	4,000	31,000	5,000
Total	**$92,000**	**$30,000**	**$88,000**	**$15,000**
• Importance Code A	59,000	16,000	3,000	2,000
• Importance Code B	33,000	14,000	85,000	13,000
• Importance Code C				
• Importance Code D				
Total	**$92,000**	**$30,000**	**$88,000**	**$15,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

DEPT. OF SMALL BUSINESS SERV. - 801

Project Type : ECONOMIC DEVELOPMENT

SHELTERS	:	1
MUSEUM/GALLERY FACILITIES	:	3
TERMINALS/MARKETS	:	56
PIERS/BULKHEADS	:	177
PARKING GARAGES	:	1
FERRY TERMINAL FACILITIES	:	2
MARINAS/DOCKS	:	6
Total Assets in AIMS	:	**246**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	67,102,000	64,709,000
• Interior Architecture	41,142,000	27,843,000
• Electrical	44,029,000	49,862,000
• Mechanical	20,556,000	22,546,000
• Piers	17,346,000	13,445,000
• Bulkheads	58,617,000	31,709,000
• Miscellaneous Buildings	338,000	140,000
• Marinas/Docks	524,000	2,820,000
Total	**$249,654,000** *	**$213,074,000**
• Importance Code A	121,429,000	78,358,000
• Importance Code B	113,069,000	131,944,000
• Importance Code C	14,818,000	2,632,000
• Importance Code D	338,000	140,000
Total	**$249,654,000** *	**$213,074,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	1,400,000	137,000	220,000	97,000
• Interior Architecture	2,152,000	39,000	403,000	401,000
• Electrical	655,000	279,000	436,000	690,000
• Mechanical	1,351,000	944,000	1,151,000	1,016,000
• Piers	725,000	25,000	57,000	255,000
• Bulkheads	3,375,000	199,000	161,000	34,000
• Miscellaneous Buildings	19,000	9,000	8,000	6,000
• Elevators/Escalators	406,000	406,000	406,000	406,000
• Marinas/Docks	133,000	5,000	42,000	63,000
Total	**$10,216,000**	**$2,041,000**	**$2,883,000**	**$2,968,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

DEPT. OF SMALL BUSINESS SERV. - 801

• Importance Code	A	3,137,000	515,000	564,000	518,000
• Importance Code	B	6,040,000	1,502,000	2,280,000	2,437,000
• Importance Code	C	1,020,000	16,000	31,000	6,000
• Importance Code	D	19,000	9,000	8,000	6,000
Total		**$10,216,000**	**$2,041,000**	**$2,883,000**	**$2,968,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

DEPT. OF HEALTH & MENTAL HYGIENE - 816

Project Type : HEALTH AND MENTAL HYGIENE

ADMINISTRATIVE BUILDINGS	:	1
CLINICS/LABS. CLASSROOMS	:	26
VEHICLE MAINT./STORAGE FACILITIES	:	1
ANIMAL SHELTERS	:	3
Total Assets in AIMS	:	**31**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	10,450,000	3,981,000
• Interior Architecture	6,865,000	5,754,000
• Electrical	6,183,000	22,207,000
• Mechanical	4,355,000	5,924,000
• Miscellaneous Buildings	152,000	129,000
Total	**$28,006,000** *	**$37,995,000**
• Importance Code A	10,450,000	4,220,000
• Importance Code B	16,513,000	32,890,000
• Importance Code C	890,000	755,000
• Importance Code D	152,000	129,000
Total	**$28,006,000** *	**$37,995,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	872,000	76,000	113,000	162,000
• Interior Architecture	1,031,000	139,000	326,000	147,000
• Electrical	440,000	266,000	349,000	171,000
• Mechanical	775,000	429,000	818,000	491,000
• Miscellaneous Buildings	16,000	6,000	8,000	8,000
• Elevators/Escalators	415,000	415,000	415,000	415,000
Total	**$3,550,000**	**$1,332,000**	**$2,029,000**	**$1,394,000**
• Importance Code A	937,000	136,000	175,000	218,000
• Importance Code B	2,345,000	1,182,000	1,835,000	1,166,000
• Importance Code C	252,000	7,000	12,000	2,000
• Importance Code D	16,000	6,000	8,000	8,000
Total	**$3,550,000**	**$1,332,000**	**$2,029,000**	**$1,394,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

HEALTH AND HOSPITALS CORP. - 819

Project Type : HEALTH & HOSPITALS CORP.

HOSPITAL BUILDINGS	:	91
Total Assets in AIMS	:	**91**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	138,255,000	35,182,000
• Interior Architecture	43,645,000	168,133,000
• Electrical	34,685,000	376,351,000
• Mechanical	61,380,000	147,348,000
• Miscellaneous Buildings	554,000	519,000
Total	**$278,518,000** *	**$727,534,000**
• Importance Code A	142,992,000	40,771,000
• Importance Code B	126,117,000	632,363,000
• Importance Code C	8,856,000	53,882,000
• Importance Code D	554,000	519,000
Total	**$278,518,000** *	**$727,534,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	2,790,000	323,000	509,000	437,000
• Interior Architecture	3,939,000	779,000	3,126,000	1,445,000
• Electrical	2,305,000	1,716,000	1,826,000	1,969,000
• Mechanical	6,586,000	4,887,000	7,442,000	4,904,000
• Miscellaneous Buildings	64,000	20,000	24,000	21,000
• Elevators/Escalators	3,304,000	3,304,000	3,304,000	3,304,000
Total	**$18,988,000**	**$11,030,000**	**$16,230,000**	**$12,080,000**
• Importance Code A	3,385,000	1,001,000	1,230,000	1,170,000
• Importance Code B	14,323,000	9,906,000	14,806,000	10,799,000
• Importance Code C	1,216,000	102,000	171,000	90,000
• Importance Code D	64,000	20,000	24,000	21,000
Total	**$18,988,000**	**$11,030,000**	**$16,230,000**	**$12,080,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

DEPARTMENT OF SANITATION - 827

Project Type : SANITATION

PIERS/BULKHEADS	:	32
TRANSFER STATIONS	:	5
VEHICLE MAINT./STORAGE FACILITIES	:	41
FRESH KILLS FACILITIES	:	17
Total Assets in AIMS	:	**95**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	71,864,000	12,446,000
• Interior Architecture	39,143,000	11,757,000
• Electrical	7,004,000	31,450,000
• Mechanical	8,657,000	31,197,000
• Piers	13,594,000	877,000
• Bulkheads	6,348,000	1,520,000
• Miscellaneous Buildings	345,000	81,000
Total	**$146,956,000** *	**$89,329,000**
• Importance Code A	81,323,000	14,461,000
• Importance Code B	57,480,000	74,378,000
• Importance Code C	7,808,000	408,000
• Importance Code D	345,000	81,000
Total	**$146,956,000** *	**$89,329,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	1,685,000	27,000	220,000	15,000
• Interior Architecture	2,277,000	129,000	127,000	548,000
• Electrical	903,000	296,000	268,000	210,000
• Mechanical	2,074,000	796,000	1,121,000	589,000
• Piers	757,000	41,000	21,000	129,000
• Bulkheads	360,000	4,000	2,000	49,000
• Miscellaneous Buildings	41,000	8,000	13,000	8,000
• Elevators/Escalators	114,000	114,000	114,000	114,000
Total	**$8,211,000**	**$1,416,000**	**$1,886,000**	**$1,663,000**
• Importance Code A	2,156,000	207,000	398,000	181,000
• Importance Code B	4,928,000	1,186,000	1,470,000	1,444,000
• Importance Code C	1,086,000	15,000	6,000	30,000
• Importance Code D	41,000	8,000	13,000	8,000
Total	**$8,211,000**	**$1,416,000**	**$1,886,000**	**$1,663,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

Project Type : WATERWAY BRIDGES		
BRIDGES, WATERWAYS	:	38
HIGHWAY BRIDGES AND TUNNELS	:	2
Project Type : FERRIES		
FERRIES/BARGES	:	8
PIERS/BULKHEADS	:	16
FERRY TERMINAL FACILITIES	:	5
MARINAS/DOCKS	:	15
Project Type : ELECTRIC CONTROL		
STREET LIGHTING SYSTEMS	:	1
Project Type : HIGHWAY BRIDGES		
HIGHWAY BRIDGES AND TUNNELS	:	84
Project Type : HIGHWAYS		
PIERS/BULKHEADS	:	10
HIGHWAY FACILITIES	:	45
PIER FACILITIES	:	3
PARKING GARAGES	:	9
STREET AND CITY OWNED ARTERIALS	:	5
Project Type : TRAFFIC		
TRAFFIC SIGNAL SYSTEMS	:	1
Total Assets in AIMS	:	**242**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	12,258,000	13,133,000
• Interior Architecture	9,697,000	6,599,000
• Electrical	4,630,000	7,745,000
• Mechanical	1,404,000	11,547,000
• Piers	1,886,000	2,449,000
• Bulkheads	7,269,000	2,296,000
• Bridge Structure	468,475,000	256,347,000
• Ferries	27,700,000	
• Miscellaneous Buildings	143,000	65,000
• Marinas/Docks	3,815,000	15,895,000
• Bridge Electrical	9,654,000	13,412,000
• Bridge Mechanical	13,603,000	1,175,000
• Primary Streets	385,260,000	
• Secondary Streets	541,830,000	
• Local Streets	1,334,560,000	
• Arterial Streets	40,000,000	
• Step Streets	26,460,000	
• Traffic Signal System	15,346,000	
• Street Lighting System	34,966,000	
Total	**$2,938,954,000** *	**$330,661,000**

** Investment necessary to bring assets to a State of Good Repair*

Notes : All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars. Special systems include the four East River Bridges, traffic signal systems, street lighting systems and utilities. Due to their critical nature, these systems are not surveyed, but are updated yearly based on the agency's Ten Year Capital Strategy and contract information made available to OMB. Costs for Streets and Arterials beyond the Four Year Plan are not included in summary.

• Importance Code A	452,206,000	111,336,000
• Importance Code B	1,061,627,000	102,475,000
• Importance Code C	1,398,519,000	116,785,000
• Importance Code D	26,603,000	65,000
Total	**$2,938,954,000** *	**$330,661,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	916,000	172,000	116,000	144,000
• Interior Architecture	958,000	121,000	130,000	127,000
• Electrical	265,000	217,000	216,000	211,000
• Mechanical	497,000	435,000	513,000	430,000
• Piers	519,000	27,000	67,000	20,000
• Bulkheads	313,000	7,000	7,000	20,000
• Bridge Structure	21,318,000	12,819,000	26,080,000	14,654,000
• Ferries	3,648,000			
• Miscellaneous Buildings	178,000	23,000	28,000	28,000
• Elevators/Escalators	139,000	139,000	139,000	139,000
• Marinas/Docks	357,000	17,000	129,000	85,000
• Bridge Electrical	780,000	69,000	100,000	80,000
• Bridge Mechanical	1,559,000	86,000	638,000	98,000
• Primary Streets				
• Secondary Streets				
• Local Streets				
• Arterial Streets				
• Step Streets				
• Traffic Signal System	39,066,000	42,322,000	42,322,000	42,322,000
• Street Lighting System	23,400,000	23,400,000	23,400,000	23,400,000
Total	**$93,913,000**	**$79,854,000**	**$93,885,000**	**$81,757,000**
• Importance Code A	82,958,000	78,360,000	86,110,000	80,118,000
• Importance Code B	6,049,000	1,044,000	7,289,000	1,084,000
• Importance Code C	4,728,000	426,000	458,000	527,000
• Importance Code D	178,000	23,000	28,000	28,000
Total	**$93,913,000**	**$79,854,000**	**$93,885,000**	**$81,757,000**

** Investment necessary to bring assets to a State of Good Repair*

Notes : All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars. Special systems include the four East River Bridges, traffic signal systems, street lighting systems and utilities. Due to their critical nature, these systems are not surveyed, but are updated yearly based on the agency's Ten Year Capital Strategy and contract information made available to OMB. Costs for Streets and Arterials beyond the Four Year Plan are not included in summary.

DEPT. OF PARKS & RECREATION - 846

Project Type : PARKS AND RECREATION

MUSEUM/GALLERY FACILITIES	:	16
PIERS/BULKHEADS	:	138
VEHICLE MAINT./STORAGE FACILITIES	:	4
PARK FACILITIES	:	717
STADIUM FACILITIES	:	5
MARINAS/DOCKS	:	26
WALLS	:	276
PARK BRIDGES	:	97
Total Assets in AIMS	:	**1,279**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	67,535,000	22,846,000
• Interior Architecture	21,670,000	14,884,000
• Electrical	14,372,000	37,166,000
• Mechanical	5,443,000	33,969,000
• Piers	5,157,000	10,926,000
• Bulkheads	52,677,000	84,996,000
• Parks' Walls	45,721,000	452,000
• Parks' Boardwalks	56,237,000	57,968,000
• Miscellaneous Buildings	37,185,000	14,786,000
• Parks' Water and Sewer Utilities	107,299,000	160,949,000
• Parks' Electrical Utilities	32,285,000	48,427,000
• Parks' Streets and Roads	71,653,000	20,124,000
• Park Bridges	25,534,000	8,623,000
• Marinas/Docks	12,860,000	10,176,000
Total	**$555,628,000** *	**$526,294,000**
• Importance Code A	254,125,000	146,389,000
• Importance Code B	171,555,000	333,229,000
• Importance Code C	21,109,000	11,766,000
• Importance Code D	108,838,000	34,910,000
Total	**$555,628,000** *	**$526,294,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

DEPT. OF PARKS & RECREATION - 846

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	5,679,000	587,000	482,000	334,000
• Interior Architecture	5,889,000	367,000	762,000	475,000
• Electrical	1,914,000	660,000	617,000	800,000
• Mechanical	2,078,000	931,000	1,251,000	1,327,000
• Piers	802,000	75,000	171,000	216,000
• Bulkheads	2,538,000	187,000	178,000	122,000
• Parks' Walls	3,575,000			
• Parks' Boardwalks	109,000			
• Miscellaneous Buildings	2,145,000	521,000	438,000	760,000
• Parks' Water and Sewer Utilities	2,682,000	2,682,000	2,682,000	2,682,000
• Parks' Electrical Utilities	808,000	808,000	808,000	808,000
• Elevators/Escalators	234,000	234,000	234,000	234,000
• Parks' Streets and Roads				
• Park Bridges	4,485,000	8,000	6,000	771,000
• Marinas/Docks	938,000	214,000	232,000	516,000
Total	**$33,875,000**	**$7,274,000**	**$7,862,000**	**$9,045,000**
• Importance Code A	11,580,000	1,110,000	927,000	1,028,000
• Importance Code B	16,240,000	5,605,000	6,415,000	6,737,000
• Importance Code C	3,910,000	38,000	81,000	520,000
• Importance Code D	2,145,000	521,000	438,000	760,000
Total	**$33,875,000**	**$7,274,000**	**$7,862,000**	**$9,045,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

DEPT. OF CITYWIDE ADMIN. SERV. - 856

Project Type : REAL PROPERTY

PIERS/BULKHEADS	:	10
COURT BUILDINGS	:	23
PUBLIC OFFICE BUILDINGS	:	34
Total Assets in AIMS	:	**67**

Report on Estimated Cost for Repairs, Replacements, Major Maintenance

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
• Exterior Architecture	71,258,000	35,288,000
• Interior Architecture	56,497,000	134,164,000
• Electrical	31,543,000	189,012,000
• Mechanical	35,649,000	127,459,000
• Piers	369,000	304,000
• Bulkheads	1,560,000	5,855,000
• Miscellaneous Buildings	631,000	585,000
Total	**$197,508,000** *	**$492,666,000**
• Importance Code A	74,731,000	38,383,000
• Importance Code B	109,280,000	407,403,000
• Importance Code C	12,866,000	46,295,000
• Importance Code D	631,000	585,000
Total	**$197,508,000** *	**$492,666,000**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
• Exterior Architecture	1,381,000	235,000	343,000	315,000
• Interior Architecture	9,694,000	898,000	13,156,000	4,738,000
• Electrical	1,809,000	1,395,000	1,612,000	1,493,000
• Mechanical	5,680,000	4,499,000	6,101,000	4,485,000
• Piers	28,000			
• Bulkheads	283,000		8,000	0
• Miscellaneous Buildings	46,000	30,000	35,000	31,000
• Elevators/Escalators	4,889,000	4,889,000	4,889,000	4,889,000
Total	**$23,810,000**	**$11,945,000**	**$26,144,000**	**$15,951,000**
• Importance Code A	2,117,000	1,040,000	1,209,000	1,119,000
• Importance Code B	20,876,000	10,874,000	24,859,000	14,735,000
• Importance Code C	772,000	2,000	42,000	66,000
• Importance Code D	46,000	30,000	35,000	31,000
Total	**$23,810,000**	**$11,945,000**	**$26,144,000**	**$15,951,000**

** Investment necessary to bring assets to a State of Good Repair*

All costs are in non-escalated current dollars and are rounded to the nearest thousand dollars.

Exhibits A - C

A. Component Importance Codes for Repair, Replacement and Major Maintenance

B. Technical Notes and Project Methodology

C. Legend for Individual Survey Report and Sample Asset Report

Exhibit A
Component Importance Codes for Repair, Replacement and Major Maintenance

Exhibit A
Component Importance Codes for Repair, Replacement and Major Maintenance

D.S.C.	Discipline (D)	System (S)	Component (C)	Importance
1.1.1	Architecture	Exterior	Exterior Walls	A
1.1.2	Architecture	Exterior	Windows	A
1.1.3	Architecture	Exterior	Parapets	A
1.1.4	Architecture	Exterior	Roof	A
1.2.5	Architecture	Interior	Floors	B
1.2.6	Architecture	Interior	Interior Walls	C
1.2.7	Architecture	Interior	Ceiling	B
1.3.8	Architecture	Site Enclosure	Fence/Gates	C
1.3.9	Architecture	Site Enclosure	Free Standing Walls	C
1.3.10	Architecture	Site Enclosure	Retaining Walls	B
1.4.11	Architecture	Site Pavements	Public Sidewalk	B
1.4.12	Architecture	Site Pavements	On-Site Walkways	C
1.4.13	Architecture	Site Pavements	Parking/Driveway	C
1.4.14	Architecture	Site Pavements	Activity Yard	B
2.1.1	Electrical	Over 600 volts	Service Equipment	A
2.1.2	Electrical	Over 600 volts	Transformers	B
2.1.3	Electrical	Over 600 volts	Switchgear	B
2.1.4	Electrical	Over 600 volts	Feeders	B
2.1.5	Electrical	Over 600 volts	Raceway	B
2.2.1	Electrical	Under 600 Volts	Service Equipment	A
2.2.2	Electrical	Under 600 Volts	Transformers	B
2.2.3	Electrical	Under 600 Volts	Switchgear	B
2.2.5	Electrical	Under 600 Volts	Raceway	B
2.2.6	Electrical	Under 600 Volts	Panelboards	B
2.2.7	Electrical	Under 600 Volts	Wiring	B
2.2.8	Electrical	Under 600 Volts	Motor Controllers	B
2.3.11	Electrical	Ground	Grounding Devices	B
2.4.9	Electrical	Stand-by Power	Transfer Switches	B
2.4.12	Electrical	Stand-by Power	Generators	B
2.4.13	Electrical	Stand-by Power	Batteries	B
2.4.17	Electrical	Stand-by Power	Fuel Storage	B
2.5.10	Electrical	Lighting	Interior Lighting	B
2.5.16	Electrical	Lighting	Egress Lighting	B
2.5.18	Electrical	Lighting	Exterior Lighting	B
2.6.15	Electrical	Lightning Protection	Arresters	B
2.7.19	Electrical	Alarm	Security System	B
2.7.20	Electrical	Alarm	Fire/Smoke Detection	B
3.1.1	Mechanical	Heating	Energy Source	B
3.1.2	Mechanical	Heating	Conversion Equipment	A
3.1.3	Mechanical	Heating	Distribution	B
3.1.4	Mechanical	Heating	Terminal Devices	B

D.S.C.	Discipline (D)	System (S)	Component (C)	Importance
3.2.1	Mechanical	Air Conditioning	Energy Source	B
3.2.2	Mechanical	Air Conditioning	Conversion Equipment	B
3.2.3	Mechanical	Air Conditioning	Distribution	B
3.2.4	Mechanical	Air Conditioning	Terminal Devices	B
3.2.5	Mechanical	Air Conditioning	Heat Rejection	B
3.2.24	Mechanical	Air Conditioning	Dehumidifier	B
3.3.3	Mechanical	Ventilation	Distribution	B
3.3.6	Mechanical	Ventilation	Exhaust Fans	B
3.4.7	Mechanical	Plumbing	H/C Water Piping	B
3.4.8	Mechanical	Plumbing	Water Heater	B
3.4.9	Mechanical	Plumbing	HW Heat Exchanger	B
3.4.10	Mechanical	Plumbing	Sanitary Piping	B
3.4.11	Mechanical	Plumbing	Storm Drain Piping	B
3.4.12	Mechanical	Plumbing	Sump Pump(s)	B
3.4.13	Mechanical	Plumbing	Pool Filter/Treatment	B
3.4.15	Mechanical	Plumbing	Sewage Ejector(s)	B
3.4.18	Mechanical	Plumbing	Backflow Preventer	B
3.4.19	Mechanical	Plumbing	Fixtures	B
3.5.16	Mechanical	Vertical Transport	Elevators	C
3.5.17	Mechanical	Vertical Transport	Escalators	C
3.6.20	Mechanical	Fire Suppression	Standpipe	B
3.6.21	Mechanical	Fire Suppression	Sprinkler	B
3.6.22	Mechanical	Fire Suppression	Fire Pump	B
3.6.23	Mechanical	Fire Suppression	Chemical System	B
4.1.2	Piers	Structural	Deck	A
4.1.3	Piers	Structural	Deck Surface	C
4.1.5	Piers	Structural	Firewalls	A
4.1.6	Piers	Structural	Pile Caps	A
4.1.7	Piers	Structural	Piles and Bracing	A
4.1.11	Piers	Structural	Coping/Curb	C
4.2.1	Piers	Fender	Buffer	B
4.2.4	Piers	Fender	Facing	B
4.2.8	Piers	Fender	Wales and Chocks	B
4.2.9	Piers	Fender	Piles	B
4.2.13	Piers	Fender	Pile Cluster	B
4.3.3	Piers	Deck Elements	Deck Surface	B
4.3.10	Piers	Deck Elements	Railing	B
4.3.11	Piers	Deck Elements	Coping/Curb	B
5.1.1	Bulkheads	Structural	Relieving Platform Top	A
5.1.3	Bulkheads	Structural	Coping	C
5.1.4	Bulkheads	Structural	Facing	C
5.1.6	Bulkheads	Structural	Gravity Wall	A
5.1.7	Bulkheads	Structural	Pile Supported Wall	A
5.1.9	Bulkheads	Structural	Piles and Bracing	A
5.1.10	Bulkheads	Structural	Rip Rap	C
5.1.11	Bulkheads	Structural	Sheet Piles	A

D.S.C.	Discipline (D)	System (S)	Component (C)	Importance
5.1.13	Bulkheads	Structural	Wales	A
5.1.15	Bulkheads	Structural	Pile Caps	A
5.1.19	Bulkheads	Structural	Lowlevel Pile Caps	A
5.2.5	Bulkheads	Backfill	Fill	B
5.2.12	Bulkheads	Backfill	Surface	B
5.3.2	Bulkheads	Fender	Buffer	B
5.3.4	Bulkheads	Fender	Facing	B
5.3.8	Bulkheads	Fender	Piles	B
5.3.14	Bulkheads	Fender	Wales and Chocks	B
5.3.17	Bulkheads	Fender	Pile Cluster	B
5.4.16	Bulkheads	Deck Elements	Railing	B
5.4.18	Bulkheads	Deck Elements	Parapet	B
6.1.1	Bridge Structure	Abutments	Bridge Seat&pedestals	A
6.1.7	Bridge Structure	Abutments	Backwall	C
6.1.9	Bridge Structure	Abutments	Brngs,Ancr Blts,Pads	A
6.1.14	Bridge Structure	Abutments	Footings	B
6.1.17	Bridge Structure	Abutments	Joint with Deck	B
6.1.20	Bridge Structure	Abutments	Mat (scour & erosion)	B
6.1.24	Bridge Structure	Abutments	Pedestals	A
6.1.31	Bridge Structure	Abutments	Stem (breastwall)	B
6.1.32	Bridge Structure	Abutments	Walls	A
6.2.14	Bridge Structure	Wingwalls	Footings	C
6.2.20	Bridge Structure	Wingwalls	Mat (scour & erosion)	C
6.2.25	Bridge Structure	Wingwalls	Piles	C
6.2.32	Bridge Structure	Wingwalls	Walls	C
6.3.8	Bridge Structure	Feature Crossed	Bank Protection	C
6.3.20	Bridge Structure	Feature Crossed	Mat (scour & erosion)	A
6.3.44	Bridge Structure	Feature Crossed	Pier Protection	B
6.4.4	Bridge Structure	Approaches	Pavement	C
6.4.11	Bridge Structure	Approaches	Curbs	A
6.4.13	Bridge Structure	Approaches	Embankment	C
6.4.16	Bridge Structure	Approaches	Guide Railing	A
6.4.20	Bridge Structure	Approaches	Mat (scour & erosion)	A
6.4.21	Bridge Structure	Approaches	Median	A
6.4.28	Bridge Structure	Approaches	Railings/Parapets	A
6.4.30	Bridge Structure	Approaches	Sidewalks/Fascias	C
6.5.2	Bridge Structure	Piers	Cap Beam	A
6.5.5	Bridge Structure	Piers	Pier,Columns	B
6.5.6	Bridge Structure	Piers	Stem,Solid Pier	B
6.5.9	Bridge Structure	Piers	Brngs,Ancr Blts,Pads	A
6.5.14	Bridge Structure	Piers	Footings	B
6.5.20	Bridge Structure	Piers	Mat (scour & erosion)	A
6.5.24	Bridge Structure	Piers	Pedestals	B
6.5.25	Bridge Structure	Piers	Piles	A
6.6.11	Bridge Structure	Deck Elements	Curbs	A
6.6.15	Bridge Structure	Deck Elements	Gratings	A

D.S.C.	Discipline (D)	System (S)	Component (C)	Importance
6.6.16	Bridge Structure	Deck Elements	Guide Railing	A
6.6.21	Bridge Structure	Deck Elements	Median	A
6.6.22	Bridge Structure	Deck Elements	Mono Deck Surface	C
6.6.28	Bridge Structure	Deck Elements	Railings/Parapets	A
6.6.30	Bridge Structure	Deck Elements	Sidewalks	C
6.6.33	Bridge Structure	Deck Elements	Wearing Surface	C
6.6.52	Bridge Structure	Deck Elements	Scupper	C
6.7.12	Bridge Structure	Superstructure	Deck,Structural	A
6.7.18	Bridge Structure	Superstructure	Joints	C
6.7.27	Bridge Structure	Superstructure	Primary Member	A
6.7.29	Bridge Structure	Superstructure	Secondary Member	B
6.7.50	Bridge Structure	Superstructure	Vertical Lift Tower	A
6.8.10	Bridge Structure	Movable Bridges	Controls	A
6.8.19	Bridge Structure	Movable Bridges	Machinery	A
6.8.26	Bridge Structure	Movable Bridges	Power	A
6.8.45	Bridge Structure	Movable Bridges	Swing Span Truss	A
6.8.46	Bridge Structure	Movable Bridges	Swing Span Pivot Pier	A
6.8.47	Bridge Structure	Movable Bridges	Bascule Span	A
6.8.48	Bridge Structure	Movable Bridges	Bascule Span Pier	A
6.8.49	Bridge Structure	Movable Bridges	Vertical Lift Span	A
6.8.50	Bridge Structure	Movable Bridges	Vertical Lift Tower	A
6.8.51	Bridge Structure	Movable Bridges	Vertical Lift Pier	A
9.1.1	Park Wall	Wall	Coping	B
9.1.2	Park Wall	Wall	Wall/Fence	A
9.1.3	Park Wall	Wall	Base	B
10.1.2	Boardwalks	Superstructure	Deck	A
10.1.3	Boardwalks	Superstructure	Railing	B
10.2.4	Boardwalks	Substructure	Beams	A
10.2.5	Boardwalks	Substructure	Piers	A
10.2.6	Boardwalks	Substructure	Girders	A
10.2.7	Boardwalks	Substructure	Underside Enclosure	C
12.1.5	Bridge Electrical	Communication Electrical	Communications	B
12.1.18	Bridge Electrical	Communication Electrical	Intercom	B
12.1.38	Bridge Electrical	Communication Electrical	Telephone	B
12.1.50	Bridge Electrical	Communication Electrical	Jack	B
12.2.6	Bridge Electrical	Control System Electrical	Computer	B
12.2.8	Bridge Electrical	Control System Electrical	Control Console	B
12.2.9	Bridge Electrical	Control System Electrical	Control Devices	B
12.2.10	Bridge Electrical	Control System Electrical	Disconnect Switch	B
12.2.22	Bridge Electrical	Control System Electrical	Limit Switch	B
12.2.23	Bridge Electrical	Control System Electrical	Local Starter	B
12.3.14	Bridge Electrical	Drive	Grating Motor	B
12.3.25	Bridge Electrical	Drive	Machinery Brake	B
12.3.27	Bridge Electrical	Drive	Motor Brake	B
12.3.33	Bridge Electrical	Drive	Span Lock Motor	B
12.3.47	Bridge Electrical	Drive	Wedge Motor	B

D.S.C.	Discipline (D)	System (S)	Component (C)	Importance
12.4.24	Bridge Electrical	Electric Power	MCC	B
12.4.28	Bridge Electrical	Electric Power	PanelBoard	B
12.4.31	Bridge Electrical	Electric Power	Service Equipment	B
12.4.37	Bridge Electrical	Electric Power	Switchgear	B
12.4.43	Bridge Electrical	Electric Power	Transfer Switch	B
12.4.44	Bridge Electrical	Electric Power	Transformer	B
12.4.51	Bridge Electrical	Electric Power	Heating	B
12.4.54	Bridge Electrical	Electric Power	Dist Equip/Motor Cont.	B
12.5.19	Bridge Electrical	Exterior Lighting	Lighting Contactor	B
12.5.20	Bridge Electrical	Exterior Lighting	Lighting Fixture	B
12.5.30	Bridge Electrical	Exterior Lighting	Pole	B
12.5.34	Bridge Electrical	Exterior Lighting	Spot Lighting	B
12.6.15	Bridge Electrical	Ground/Lightning Protection	Ground Bus	B
12.6.16	Bridge Electrical	Ground/Lightning Protection	Ground Rod	B
12.6.17	Bridge Electrical	Ground/Lightning Protection	Ground Wire	B
12.6.21	Bridge Electrical	Ground/Lightning Protection	Lightning Terminals	B
12.7.11	Bridge Electrical	Interior Lighting	Exit Lighting	B
12.7.20	Bridge Electrical	Interior Lighting	Lighting Fixture	B
12.7.49	Bridge Electrical	Interior Lighting	Wiring Device	B
12.8.1	Bridge Electrical	Navigation Lighting	Air Beacon	B
12.8.12	Bridge Electrical	Navigation Lighting	Fender Lighting	B
12.8.29	Bridge Electrical	Navigation Lighting	Pier Lighting	B
12.8.32	Bridge Electrical	Navigation Lighting	Span Lighting	B
12.9.31	Bridge Electrical	Power Over 600V	Service Equipment	B
12.9.44	Bridge Electrical	Power Over 600V	Transformer	B
12.10.3	Bridge Electrical	Raceway	Box	B
12.10.4	Bridge Electrical	Raceway	Collector Ring	B
12.10.5	Bridge Electrical	Raceway	Communications	B
12.10.7	Bridge Electrical	Raceway	Conduit	B
12.10.35	Bridge Electrical	Raceway	Submarine Ctrl Cables	B
12.10.36	Bridge Electrical	Raceway	Submarine Power Cable	B
12.10.45	Bridge Electrical	Raceway	Trough	B
12.10.46	Bridge Electrical	Raceway	Under Ground Structure	B
12.10.48	Bridge Electrical	Raceway	Wires	B
12.10.52	Bridge Electrical	Raceway	Wiring	B
12.11.26	Bridge Electrical	Span Lock	Motor	B
12.12.13	Bridge Electrical	Stand-by Power	Generator	B
12.12.43	Bridge Electrical	Stand-by Power	Transfer Switch	B
12.13.2	Bridge Electrical	Traffic System Electrical	Barrier Gate Lighting	B
12.13.39	Bridge Electrical	Traffic System Electrical	Traffic Gate Lighting	B
12.13.40	Bridge Electrical	Traffic System Electrical	Traffic Gong	B
12.13.41	Bridge Electrical	Traffic System Electrical	Traffic Sign	B
12.13.42	Bridge Electrical	Traffic System Electrical	Traffic Signal	B
12.14.53	Bridge Electrical	Lighting	Lighting Devices	B
13.1.7	Bridge Mechanical	Bascule	Counter Weight	B
13.1.9	Bridge Mechanical	Bascule	Emergency Drive	B

D.S.C.	Discipline (D)	System (S)	Component (C)	Importance
13.1.12	Bridge Mechanical	Bascule	Fuel Tanks	B
13.1.13	Bridge Mechanical	Bascule	Houses	B
13.1.14	Bridge Mechanical	Bascule	Lock Bars	B
13.1.15	Bridge Mechanical	Bascule	Main Drive System	B
13.1.16	Bridge Mechanical	Bascule	Rack	B
13.1.20	Bridge Mechanical	Bascule	Live Load Supports	B
13.1.22	Bridge Mechanical	Bascule	Track	B
13.1.23	Bridge Mechanical	Bascule	Traffic Devices	B
13.1.24	Bridge Mechanical	Bascule	Trunnion	B
13.3.4	Bridge Mechanical	Swing	Center Latch	B
13.3.5	Bridge Mechanical	Swing	Center Lift	B
13.3.6	Bridge Mechanical	Swing	Center Pivot	B
13.3.9	Bridge Mechanical	Swing	Emergency Drive	B
13.3.10	Bridge Mechanical	Swing	End Lift	B
13.3.12	Bridge Mechanical	Swing	Fuel Tanks	B
13.3.13	Bridge Mechanical	Swing	Houses	B
13.3.15	Bridge Mechanical	Swing	Main Drive System	B
13.3.16	Bridge Mechanical	Swing	Rack	B
13.3.20	Bridge Mechanical	Swing	Live Load Supports	B
13.3.23	Bridge Mechanical	Swing	Traffic Devices	B
13.4.1	Bridge Mechanical	Vertical Lift	Buffers	B
13.4.2	Bridge Mechanical	Vertical Lift	CTRWT Ropes&Guides	B
13.4.7	Bridge Mechanical	Vertical Lift	Counter Weight	B
13.4.8	Bridge Mechanical	Vertical Lift	Elevators	B
13.4.9	Bridge Mechanical	Vertical Lift	Emergency Drive	B
13.4.11	Bridge Mechanical	Vertical Lift	End Locks	B
13.4.12	Bridge Mechanical	Vertical Lift	Fuel Tanks	B
13.4.13	Bridge Mechanical	Vertical Lift	Houses	B
13.4.15	Bridge Mechanical	Vertical Lift	Main Drive System	B
13.4.19	Bridge Mechanical	Vertical Lift	Sheaves	B
13.4.20	Bridge Mechanical	Vertical Lift	Live Load Supports	B
13.4.21	Bridge Mechanical	Vertical Lift	Towers	B
13.4.23	Bridge Mechanical	Vertical Lift	Traffic Devices	B
14.1.2	Marinas/Docks	Access Walkways	Deck	A
14.1.5	Marinas/Docks	Access Walkways	Gangways	B
14.1.8	Marinas/Docks	Access Walkways	Pile Caps	A
14.1.11	Marinas/Docks	Access Walkways	Piles and Bracing	A
14.1.15	Marinas/Docks	Access Walkways	Fender Piles,Wales/Chocks	A
14.2.1	Marinas/Docks	Floating Docks	Anchor Piles	A
14.2.2	Marinas/Docks	Floating Docks	Deck	A
14.2.3	Marinas/Docks	Floating Docks	Fenders	C
14.2.4	Marinas/Docks	Floating Docks	Floats/Frames	A
14.2.7	Marinas/Docks	Floating Docks	Mooring Piles	B
14.2.10	Marinas/Docks	Floating Docks	Railing	A
14.2.16	Marinas/Docks	Floating Docks	Barge	A
14.3.3	Marinas/Docks	Launch/Haulout	Fenders	B

D.S.C.	Discipline (D)	System (S)	Component (C)	Importance
14.3.11	Marinas/Docks	Launch/Haulout	Piles and Bracing	A
14.3.12	Marinas/Docks	Launch/Haulout	Ramp	B
14.3.13	Marinas/Docks	Launch/Haulout	Runway	A
14.4.3	Marinas/Docks	Protective Structure	Fenders	A
14.4.6	Marinas/Docks	Protective Structure	Ice Breaker	A
14.4.9	Marinas/Docks	Protective Structure	Piles Cluster	C
14.4.14	Marinas/Docks	Protective Structure	Wave Attenuator	A
14.4.28	Marinas/Docks	Protective Structure	Donut Fender	A
14.5.10	Marinas/Docks	Deck Elements	Railing	A
14.6.18	Marinas/Docks	Electrical	Conduit	A
14.6.21	Marinas/Docks	Electrical	Lighting Fixture	A
14.7.23	Marinas/Docks	Electrical/Mech.	Power Supply/Bollards	A
14.8.20	Marinas/Docks	Fender	Facing	A
14.8.22	Marinas/Docks	Fender	Piles	A
14.8.26	Marinas/Docks	Fender	Wales and Chocks	A
14.9.25	Marinas/Docks	Gallows Frames	Tower Frames	A
14.10.24	Marinas/Docks	Mech./Plumbing	Sanitary Piping	A
14.10.27	Marinas/Docks	Mech./Plumbing	Water Supply	A
14.11.17	Marinas/Docks	Movable Ramps	Bearings	A
14.11.19	Marinas/Docks	Movable Ramps	Deck and Railing	A
16.1.1	Park Bridges	Abutments	Bridge Seat&Pedestals	A
16.1.7	Park Bridges	Abutments	Backwall	C
16.1.9	Park Bridges	Abutments	Brngs,Ancr Blts,Pads	A
16.1.14	Park Bridges	Abutments	Footings	B
16.1.17	Park Bridges	Abutments	Joint with Deck	B
16.1.20	Park Bridges	Abutments	Mat (scour & erosion)	B
16.1.24	Park Bridges	Abutments	Pedestals	A
16.1.31	Park Bridges	Abutments	Stem (breastwall)	B
16.1.32	Park Bridges	Abutments	Walls	B
16.2.14	Park Bridges	Wingwalls	Footings	C
16.2.20	Park Bridges	Wingwalls	Mat (scour & erosion)	C
16.2.25	Park Bridges	Wingwalls	Piles	C
16.2.32	Park Bridges	Wingwalls	Walls	C
16.3.8	Park Bridges	Stream Channel	Bank Protection	C
16.3.20	Park Bridges	Stream Channel	Mat (scour & erosion)	A
16.3.44	Park Bridges	Stream Channel	Pier Protection	B
16.4.4	Park Bridges	Approaches	Pavement	C
16.4.11	Park Bridges	Approaches	Curbs	A
16.4.13	Park Bridges	Approaches	Embankment	C
16.4.16	Park Bridges	Approaches	Guide Railing	A
16.4.20	Park Bridges	Approaches	Mat (scour & erosion)	A
16.4.23	Park Bridges	Approaches	Pavement Base	C
16.4.28	Park Bridges	Approaches	Railings/Parapets	A
16.4.30	Park Bridges	Approaches	Sidewalks	C
16.4.35	Park Bridges	Approaches	Fascias	C
16.4.52	Park Bridges	Approaches	Scupper	C

D.S.C.	Discipline (D)	System (S)	Component (C)	Importance
16.5.2	Park Bridges	Piers	Cap beam	A
16.5.5	Park Bridges	Piers	Pier,Columns	B
16.5.6	Park Bridges	Piers	Stem,Solid Pier	B
16.5.9	Park Bridges	Piers	Brngs,Ancr Blts,Pads	A
16.5.14	Park Bridges	Piers	Footings	B
16.5.20	Park Bridges	Piers	Mat (scour & erosion)	A
16.5.24	Park Bridges	Piers	Pedestals	B
16.5.25	Park Bridges	Piers	Piles	A
16.6.11	Park Bridges	Deck Elements	Curbs	A
16.6.15	Park Bridges	Deck Elements	Gratings	A
16.6.16	Park Bridges	Deck Elements	Guide Railing	A
16.6.21	Park Bridges	Deck Elements	Median	A
16.6.22	Park Bridges	Deck Elements	Mono Deck Surface	C
16.6.28	Park Bridges	Deck Elements	Railings/Parapets	A
16.6.30	Park Bridges	Deck Elements	Sidewalks	C
16.6.33	Park Bridges	Deck Elements	Wearing Surface	C
16.6.35	Park Bridges	Deck Elements	Fascias	C
16.6.52	Park Bridges	Deck Elements	Scupper	C
16.7.12	Park Bridges	Superstructure	Deck,Structural	A
16.7.18	Park Bridges	Superstructure	Joints	C
16.7.27	Park Bridges	Superstructure	Primary Member	A
16.7.29	Park Bridges	Superstructure	Secondary Member	B
	Rikers Island	Electrical		A
	Rikers Island	Gas Mains		B
	Rikers Island	Sanitary System		B
	Rikers Island	Underground Steam Tunnel		B
	Rikers Island	Storm System		B
	Rikers Island	Domestic/Fire Water System		B
	Brooklyn Bridge			A
	Manhattan Bridge			A
	Queensboro Bridge			A
	Williamsburg Bridge			A
	Street Lighting System			A
	Traffic Signal System			A
	Streets and Highways	Primary Streets		B
	Streets and Highways	Secondary Streets		B
	Streets and Highways	Local Streets		C
	Streets and Highways	Arterial Streets		A
	Streets and Highways	Step Streets		D
	Park Utilities	Electrical		A
	Park Utilities	Water and Sewers		B
	Park Streets and Roads			D
	Ferries	Capital Repairs		A
	Ferries	Major Maintenance		A
	Vessels	Capital Repairs		A
	Vessels	Major Maintenance		A

Exhibit B
Technical Notes and Project Methodology

Exhibit B
Technical Notes and Project Methodology

Asset Definition

In single structure assets, the sub-asset and the asset are synonymous. In the agency reports, an "asset" generally has a one-to-one correspondence with a unique structure and has an individual Program Number. In some instances, the initial "asset" was defined as an organizational unit which provided a common service, but consists of numerous individual structures. An example of this would be Bellevue Hospital which is considered to be the "asset", but which has several significant individual structures. Bellevue Hospital is numbered as the "asset" and individual buildings are numbered as "sub-assets". Bridges with individual Bridge Identification Numbers are also considered separate sub-assets. Actual surveying, costing and reporting always occur at the sub-asset level.

Criteria for Survey Selection

The decision criteria below have been developed and generally followed in determining sub-assets to receive an engineering survey:

- Assets meeting the Charter criteria which had a previous survey conducted four years ago.
- Sub-assets appraised at greater than $1 million regardless of size
- Sub-assets valued at greater than $250,000 and greater in size than 10,000 sq. ft.
- Other sub-assets used as an "average cost" group.
- Special requests from agencies.

Repair, Replacement and Major Maintenance

Repairs, replacements and "major maintenance" costs are all presented at the detailed component level in the maintenance schedules. Repairs are defined as reconstruction or renovation.

Cost Estimating

In order to have a consistent, standard methodology, all costs were developed on a contracted-out basis adjusted for work in the NYC public sector. Costs were developed for individual component repairs/replacements. Costs presented are considered all-inclusive (i.e. labor, materials, equipment, design, construction management, overhead and profit). The data obtained by the field survey teams and by the estimators was combined in a project computer database. This database was used to generate the

asset cost data. Actual work, when performed by an agency may be on a different basis or packaged in a different manner. Future work, performed on a large scale (i.e., major rehabilitation or modernization), may include other logical work items that are not specifically cited in the agency reports as currently needing major repair or replacement.

Quantity Estimating and Modeling Procedures

A team of professional construction cost estimators utilized asset plans and other reports to conduct a quantity take-off of selected components in typical assets. This data was used to develop models for calculating the replacement cost of those components in place. When plans were not available, it was necessary for the estimators to visit the site with a field survey team or to have a field survey team obtain quantities when they were at that specific site. It was not practical or cost effective to measure each asset to determine the quantities of the various components and types contained. To address this issue the cost estimating team developed hundreds of models for which they generated detailed quantity relationships. Assets were then assigned models to which they were similar in size and type. Unique assets and recent additions to the inventory generally became their own models.

Average Cost Methods

Average cost methods are used for small assets where an average cost per square foot, within a project type, is computed for repair in the next fiscal year. Replacement and maintenance costs are calculated on an annual basis over a ten-year period.

Life Cycle Projections

The engineers have developed a typical life cycle for each component type based on industry standards and engineering judgment. These were previously shared with each agency and have subsequently been updated to better reflect City practices. The component life cycles, along with survey assessment, are used in the report to estimate the likely point in time that a component may need replacement.

Major Maintenance

Major Maintenance as presented in the report has a specific meaning to meet the requirements of the Charter. With the exception of bridges, major maintenance is defined as those activities that should be performed at intervals of at least one year or greater and that are required to maintain the useful life and integrity of the component. Major maintenance, as here defined, does not generally include the more frequent annual and on-going normal preventive maintenance activities that should regularly occur as part of a good overall maintenance program. Major maintenance activities are generally large in scope and, depending on the agency, may often be the type of work that would be contracted-out. Major maintenance for bridges was treated differently from all other assets and does include items that are of a preventive

nature. Such activities as cleaning and debris removal are large-scale identifiable items that should not only occur regularly, but would also have a direct impact on the structural integrity of the bridge over time. Major maintenance includes all the items recommended by the project engineers as well as the full preventive maintenance program that was outlined in the bridge engineering report to the City, prepared by the Consortium of New York Engineering Schools, generally known as the "Consortium Report."

Major Maintenance Programming:

The recommended date for the start of each maintenance program was developed with consideration of engineering judgment, recommended practice, observed conditions, repairs/replacements, and general practicality. The decision rules, which apply, are as follows:

- If a repair is called for, maintenance starts in the next cycle.
- If two or more observations are rated severe, maintenance starts in the next fiscal year.
- If the replacement year is within five years of the current fiscal year, maintenance starts in the next fiscal year.
- When a component's standard life is the life of the asset, maintenance begins the next fiscal year after a new survey.
- If no repair is needed and less than two observations are rated severe for a component type whose life is the life of the asset, maintenance starts in the next cycle.
- If no repair is needed and maintenance does not start in the next fiscal year, then the maintenance start year is calculated from the year of replacement back to the present, using the maintenance cycle as an interval.
- If replacement year coincides with the maintenance start year, then no maintenance accrues.

Major Maintenance Costing:

Generally, the major maintenance programs are priced as a cost per square foot times either the area of the component or area serviced by the component. However, for a number of components, the first step in the maintenance program is to conduct a detailed survey of the component to precisely determine its condition and specific maintenance needs. The cycle frequency of the maintenance survey is much shorter than the actual maintenance cycle, thus it is presumed that the maintenance effort is not required for the whole area of the component in each cycle, but will be required for some portion of the component. As a result, the maintenance program of a certain component (i.e. repointing of exterior wall) may happen more than one time in the ten-year projection to maintain different portions of the component.

Component Observations

Component observations are meant to qualify the repair and replacement needs of the component, i.e. describing the deficiencies and locations where they occur. Even when there is no repair called for, surveyors have the ability to record observations in the field to better describe the condition of the component type and the extent of its severity.

Special Systems and Reports

There are a number of special systems and situations within a few agencies that required unique treatment and which did not readily fit within the format of the standard agency report. These assets were treated separately and were reported on in a number of different modes as appropriate to the situation. The methodology required in such cases was sometimes different than the general approach for most assets described in this report. Each of the special reports outlines how the assets were assessed and the resulting cost factors calculated.

The four East River Bridges (i.e., Brooklyn, Manhattan, Queensboro, Williamsburg) are updated yearly based on the agency's Ten Year Plan to bring them up to a state of good repair. DPR's roads and utilities are based on surveys and engineering estimates. Maintenance needs for DOT's Street Lighting and Traffic Signal Systems have been updated yearly to reflect the latest contract information available from the Agency. Streets and Highways are assessed each year based on a reinspection by DOT. Annual maintenance and repair costs for marine vessels from DOT and FDNY, and DOC's underground utilities were provided by the respective agencies.

Agency	Special Systems
Department of Transportation (DOT) FY 2016	Four East River Bridges • *yearly report based on DOT's Ten Year Plan to bring them to a state of good repair*
Department of Transportation (DOT) FY 2016	Street and City Owned Arterial System • *report produced by DOT*
Department of Transportation (DOT) FY 2016	Street Lighting System • *agency contract information*
Department of Transportation (DOT) FY 2016	Traffic Signal System • *agency contract information*
Department of Transportation (DOT) FY 2016	Ferries • *agency contract information*
Parks Department (DPR) FY 2016	Underground Utilities • *narrative report submitted on electrical, sewer, and water utilities*
Parks Department (DPR) FY 2016	Streets and Roads in Parks • *narrative report submitted*
Department of Correction (DOC) FY 2016	Rikers Island Underground Utilities • *yearly report based on agency information*
Fire Department (FDNY) FY 2016	Fireboats • *yearly report based on agency information*

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Exhibit C
Legend for Individual Survey Report and Sample Asset Report

Exhibit C
Legend for Individual Survey Report

Print Date: [a] AGENCY [b] – Fiscal Year [c] Page: [d]

Asset Name: [1]
Address: [2]
Borough: [3] Agency's Number: [8]
Program/Asset #: [4] Yr Built/Renovated: [9]
Area Sq Ft: [5] Project Type: [10]
Date of Survey: [6] Landmark Status: [11]
Areas Surveyed: [7]
Block: [12] Lot: [13] BIN: [14]

Header

a.	Print Date:	Date of report printing
b.	Agency:	Name of agency being reported
c.	Fiscal Year:	Fiscal year of report creation
d.	Page:	Page number of agency report
1.	Asset Name:	The asset name/description
2.	Address:	Self explanatory
3.	Borough:	Self explanatory
4.	Program/Asset #:	The unique number assigned to every sub-asset in the study
5.	Area Sq Ft:	The gross square feet of the asset. Some unique assets (i.e., piers and bulkheads) may also have a second measurement such as linear feet or linear feet fender.
6.	Date of Survey:	Date of last survey
7.	Areas Surveyed:	Sub-basement, basement, and roof are indicated if surveyed. The floors surveyed are indicated by floor number (applicable to buildings only). The codes ATT and PH are used to indicate attic and penthouse.

Print Date: [a] AGENCY [b] – Fiscal Year [c] Page: [d]

Asset Name: [1]
Address: [2]
Borough: [3] Agency's Number: [8]
Program/Asset #: [4] Yr Built/Renovated: [9]
Area Sq Ft: [5] Project Type: [10]
Date of Survey: [6] Landmark Status: [11]
Areas Surveyed: [7]
Block: [12] Lot: [13] BIN: [14]

Header (continued)

8.	Agency's Number:	For cross reference, the internal number within the agency
9.	Yr Built/Renovated:	Year of construction and last major renovation or addition
10.	Project Type:	NYC Capital Budget designation
11.	Landmark Status:	Whether the asset is associated with a landmark designation: *I – Interior Landmark* *E – Exterior Landmark* *H – Historical Landmark District* *B – Interior and Exterior Landmark* *C – Exterior Landmark in Historical District* *D – Interior, Exterior Landmark in Historical District* *S – Scenic Landmark* *N – Not a Landmark*
12.	Block	Tax Block
13.	Lot	Tax Lot
14.	BIN	Building/Bridge Identification Number

Discipline [1]		Current Repair		Future Replacement		Maintenance		
System [2]								
Component Type	% of [3] Total	Fail Date [4] (Years)	Estimated [5] Cost	Year [6] FY	Estimated [7] Cost	Cycle [8] (Yrs)	Estimated [9] Cost	Priority [10]

1. Discipline: The name of the discipline being evaluated (i.e. architectural, electrical, mechanical). Some agencies may have additional unique assets, which for the purposes of this report are treated as "disciplines" (i.e. piers, bulkheads, bridges).

2. System: The system that is being rated

Component: The component of the system

Type: The primary type(s) of material or equipment

3. % of Total: The percentage of the total component that is represented by the type.

4. Fail Date (Years): Indicates the component rating as follows:

Now: The Component has failed or is inoperative at the time of the survey.

0-2: It is predicted, based solely on observation that the component may fail or cease to operate within two years of the survey.

2-4: It is predicted, based solely on observation that the component may fail or cease to function within a period of two to four years after the survey.

4+: It is predicted, based solely on observation that the component may fail or cease to function beyond four years after the survey.

5. Estimated Cost: The costed dollar amount estimated to fix a component rated as failed or needing a repair.

Discipline [1]	Current Repair			Future Replacement		Maintenance		
System [2]								
Component Type	% of [3] Total	Fail Date [4] (Years)	Estimated [5] Cost	Year [6] FY	Estimated [7] Cost	Cycle [8] (Yrs)	Estimated [9] Cost	Priority [10]

6. Year FY: The estimated fiscal year in which component is projected to need replacement based on standard life, condition as of the last survey, and estimate of % of life remaining, with the assumption that recommended repairs and maintenance activities are performed. Some "life" components are expected to last for the life of the asset and are not normally replaced.

7. Estimated Cost: The estimated cost in current dollars to replace the component. Items with a replacement date of "life" are not costed and are shown as **. Only components that have replacement dates projected within the next ten years are shown as cost items.

8. Cycle (Yrs): The recommended cycle at which the major maintenance program should be performed.

9. Estimated Cost: The estimated maintenance cost over a ten year period, (in current dollars), as calculated on a standard contracting basis.

10. Priority: A calculated score given to important components that require urgent repair/replacement based on severity of condition.

Observations

System [1] Component Type	Observation [2] Location [3]	Extent [4]	Area Affected [5]

1. System, Component, Type: Same as previous report sections.

2. Observation: Observation made by surveyor regarding components of the Asset.

3. Location: Location is given as needed for an observation.

4. Extent: Light, Medium, or Severe.

5. Area Affected: Extent of observed condition expressed as a percentage of the component or component type.

Print Date : 22-Oct-2015

DEPARTMENT OF EDUCATION - FY 2016

Asset Name	: **P. S. 131 - BK**		
Address	: **4305 FT HAMILTON PKWY BTWN: 43 ST., 44 ST.**		
Borough	: **BROOKLYN**	**Agency's Number**	: **K131**
Program / Asset #	: **BOE0437.000 / 1365**	**Yr Built/Renovated**	: **1901 / 2005**
Area Sq Ft	: **86,000**	**Project Type**	: **EDUCATION**
Date of Survey	: **09-Mar-2015**	**Landmark Status**	: **NONE**
Areas Surveyed	: **Basement, Roof, Floors 1,3,4**		
Block	: **5603** **Lot** : **1**	**BIN**	: **3136085**

CAPITAL	FY 2017 - 2020	FY 2021 - 2026
Exterior Architecture	$2,556,400	$199,800
Interior Architecture	$837,900	$693,700
Electrical		$2,378,900
Mechanical		$1,238,600
Total	**$3,394,300**	**$4,510,900**
Importance Code A	$2,556,400	$236,800
Importance Code B	$585,700	$4,274,100
Importance Code C	$252,200	
Total	**$3,394,300**	**$4,510,900**

EXPENSE	FY 2017	FY 2018	FY 2019	FY 2020
Exterior Architecture	$106,400			
Interior Architecture	$96,000		$2,000	$10,800
Electrical	$2,200	$600	$1,000	$1,600
Mechanical	$40,800	$15,000	$19,700	$17,000
Total	**$245,400**	**$15,600**	**$22,600**	**$29,400**
Importance Code A	$115,200	$8,800	$8,800	$8,800
Importance Code B	$103,700	$6,900	$13,900	$20,600
Importance Code C	$26,500			
Total	**$245,400**	**$15,600**	**$22,600**	**$29,400**

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DEPARTMENT OF EDUCATION - 040

P. S. 131 - BK

Asset # : 1365

Architecture	Current Repair			Future Replacement		Maintenance		
System / Component / Type	% of Total	Fail Date (Years)	Estimated Cost	Year FY	Estimated Cost	Cycle (Yrs)	Estimated Cost	Priority
Exterior								
Exterior Walls								
Cast Stone/Terra Cotta	5%	Now	$378,100	LIFE	* *	5	$60,500	
Cracking/Crumbling, Extent : Moderate, Area Affected : 40%								
Location : Throughout								
Masonry: Brick	90%	Now	$1,261,200	LIFE	* *	5	$139,300	1
Cracking/Crumbling, Extent : Severe, Area Affected : 30%								
Location : Throughout								
Expansion Jnt Failure, Extent : Light, Area Affected : 30%								
Location : Throughout								
Masonry: Limestone	5%	0-2	$169,100	LIFE	* *	5	$5,800	1
Cracking/Crumbling, Extent : Severe, Area Affected : 30%								
Location : Throughout								
Windows								
Aluminum	100%	Now	$560,500	2042	* *	5	$22,300	
Ctrwt/Balnc Not Funct, Extent : Moderate, Area Affected : 25%								
Location : Throughout								
Hardware Missing, Extent : Moderate, Area Affected : 20%								
Location : Throughout								
Parapets								
Cast Stone/Terra Cotta	5%	Now	$33,800	LIFE	* *	5	$5,600	1
Cracking/Crumbling, Extent : Severe, Area Affected : 30%								
Location : Throughout								
Jnt Mortar Miss/Erod, Extent : Severe, Area Affected : 30%								
Location : Throughout								
Water Penetration, Extent : Severe, Area Affected : 30%								
Location : Throughout								
Copper/Terne	10%	Now	$24,900	2061	* *	5	$3,500	
Cracking/Crumbling, Extent : Severe, Area Affected : 20%								
Location : Throughout								
Masonry: Brick	75%	Now	$187,500	LIFE	* *	5	$10,800	1
Cracking/Crumbling, Extent : Severe, Area Affected : 30%								
Location : Throughout								
Jnt Mortar Miss/Erod, Extent : Light, Area Affected : 30%								
Location : Throughout								
Metal Cornice	5%	Now	$8,500	2054	* *			
Deformed/Dented, Extent : Severe, Area Affected : 30%								
Location : Throughout								
Pre-Cast Concrete	5%	Now	$5,200	LIFE	* *	5	$4,500	1
Cracking/Crumbling, Extent : Moderate, Area Affected : 30%								
Location : Throughout								
Expansion Jnt Failure, Extent : Severe, Area Affected : 30%								
Location : Throughout								

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DEPARTMENT OF EDUCATION - 040

P. S. 131 - BK

Asset # : 1365

Architecture	Current Repair			Future Replacement		Maintenance		
System / Component / Type	% of Total	Fail Date (Years)	Estimated Cost	Year FY	Estimated Cost	Cycle (Yrs)	Estimated Cost	Priority
Exterior								
Roof								
Asphalt Shingle	20%			2035	* *	10	$1,800	
Built-Up (BUR)	60%	Now	$30,400	2031	* *			
Drains Inad/Misposn, Extent : Moderate, Area Affected : 10%								
Location : Gymnasium								
Water Penetration, Extent : Moderate, Area Affected : 20%								
Location : Throughout								
Copper/Terne	5%	Now	$3,700	2041	* *			
Water Penetration, Extent : Moderate, Area Affected : 20%								
Location : Throughout								
Modified Bitumen	15%			2031	* *	10	$8,300	
Interior								
Floors								
Cast in Place Concrete	5%			LIFE	* *	5	$29,000	
Ceramic Tile	3%	Now	$23,100	2035	* *	5	$2,000	
Loose Units, Extent : Moderate, Area Affected : 30%								
Location : Toilet(s)								
Patching Evident, Extent : Moderate, Area Affected : 30%								
Location : Throughout								
Quarry Tile	2%			2039	* *	5	$4,000	
Vinyl Tile	55%	Now	$61,900	2026	$619,200	3	$27,300	
Cracking/Crumbling, Extent : Light, Area Affected : 10%								
Location : Throughout								
Vinyl Tile 9" X 9"	10%	Now	$7,300	2031	* *	3	$5,000	
Cracking/Crumbling, Extent : Severe, Area Affected : 10%								
Location : Throughout								
Wood	25%	Now	$54,600	2041	* *	5	$31,000	
Deteriorated Finish, Extent : Moderate, Area Affected : 10%								
Location : Throughout								
Interior Walls								
Ceramic Tile	3%	Now	$13,600	2029	* *	5	$2,500	
Cracking/Crumbling, Extent : Light, Area Affected : 10%								
Location : Throughout								
Masonry: Brick	2%	Now	$12,900	LIFE	* *			
Cracking/Crumbling, Extent : Moderate, Area Affected : 10%								
Location : Throughout								
Jnt Mortar Miss/Erod, Extent : Moderate, Area Affected : 10%								
Location : Throughout								
Plaster	70%	Now	$92,600	LIFE	* *	5	$34,600	
Cracking/Crumbling, Extent : Light, Area Affected : 10%								
Location : Throughout								
Water Penetration, Extent : Severe, Area Affected : 10%								
Location : Throughout								
SGFT/Glazed Masonry	25%	Now	$159,600	LIFE	* *			
Cracking/Crumbling, Extent : Light, Area Affected : 10%								
Location : Throughout								

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DEPARTMENT OF EDUCATION - 040

P. S. 131 - BK

Asset # : 1365

Architecture	Current Repair			Future Replacement		Maintenance		
System / Component / Type	% of Total	Fail Date (Years)	Estimated Cost	Year FY	Estimated Cost	Cycle (Yrs)	Estimated Cost	Priority
Interior								
Ceilings								
AcousTile,Adhered	10%	Now	$24,600	2031	* *	5	$6,600	
Cracking/Crumbling, Extent : Light, Area Affected : 20%								
Location : Throughout								
Plaster	90%	Now	$469,200	LIFE	* *	5	$74,500	
Cracking/Crumbling, Extent : Light, Area Affected : 30%								
Location : Throughout								
Water Penetration, Extent : Severe, Area Affected : 30%								
Location : Throughout								

Electrical	Current Repair			Future Replacement		Maintenance		
System / Component / Type	% of Total	Fail Date (Years)	Estimated Cost	Year FY	Estimated Cost	Cycle (Yrs)	Estimated Cost	Priority
Under 600 Volts								
Service Equipment								
Fused Disc Sw	100%			2026	$37,000	5	$400	
Other Observation, Extent : Moderate, Area Affected : 100%								
Location : Electrical Room								
Explanation : One 2000 Main Disconnect Switch								
Switchgear / Switchboard								
Fused Disc Sw	100%			2026	$171,100	5	$400	
Raceway								
Conduit	100%			2026	$172,600	1		
Panelboards								
Fused Disc Sw	10%			2025	$17,900	5	$200	
Molded Case Bkrs	80%			2025	$143,500	5	$1,800	
Molded Case Bkrs	10%			2034	* *	5	$200	
Wiring								
Thermoplastic	80%			2026	$204,400	1		
Thermoplastic	20%			2036	* *	1		
Motor Controllers								
Locally Mounted	70%			2024	$52,900	5	$400	
Locally Mounted	30%			2031	* *	5	$200	
Ground								
Grounding Devices								
Generic	100%			LIFE	* *	5	$2,500	
Other Observation, Extent : Moderate, Area Affected : 100%								
Location : Basement								
Explanation : Water Main								
Lighting								
Interior Lighting								
Fluorescent	98%			2026	$963,000	10	$79,500	
Other Observation, Extent : Moderate, Area Affected : 100%								
Location : Throughout The Building								
Explanation : T-12 Lamps								
HID	2%			2026	$14,100	10	$100	

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DEPARTMENT OF EDUCATION - 040

P. S. 131 - BK

Asset # : 1365

Electrical	Current Repair			Future Replacement		Maintenance		
System / Component / Type	% of Total	Fail Date (Years)	Estimated Cost	Year FY	Estimated Cost	Cycle (Yrs)	Estimated Cost	Priority
Lighting								
Egress Lighting								
Emergency, Battery	50%			2036	* *	10	$10,700	
Exit, Service	50%			2036	* *	1		
Exterior Lighting								
HID	100%			2021	$324,800	10	$300	
Alarm								
Security System								
No Component	80%							
Generic	20%			2026	$52,000	1	$6,400	
Fire/Smoke Detection								
No Component	80%							
Generic, Analog	20%			2021	$178,100			

Mechanical	Current Repair			Future Replacement		Maintenance		
System / Component / Type	% of Total	Fail Date (Years)	Estimated Cost	Year FY	Estimated Cost	Cycle (Yrs)	Estimated Cost	Priority
Heating								
Energy Source								
Fuel Oil No 4	100%			2036	* *	5	$27,400	
Conversion Equipment								
Steam Boiler	100%			2031	* *	1	$87,600	
Other Observation, Extent : Light, Area Affected : 100%								
Location : Basement Boiler Room								
Explanation : 3 Units								
Distribution								
Steam Piping/Pump	100%			2026	$617,700	4	$6,500	
Terminal Devices								
Air Handler	20%			2026	$95,400	1	$10,900	
Convector/Radiator	50%			2031	* *	1	$14,300	
Fan Coil Unit/Heat	25%			2021	$331,100	1	$7,100	
Unit Heater-Stm/HW	5%			2026	$28,600	4	$600	
Air Conditioning								
Energy Source								
Electricity	100%			2034	* *	1		
Conversion Equipment								
Window/Wall Unit	80%			2021	$145,500	1		
No Component	20%							
Ventilation								
Distribution								
Ductwork/Diffusers	100%			LIFE	* *	2-5	$78,100	
Exhaust Fans								
Interior	50%			2026	$48,900	2	$1,400	
No Component	50%							
Plumbing								
H/C Water Piping								
Brass/Copper	100%			2036	* *	1		

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DEPARTMENT OF EDUCATION - 040

P. S. 131 - BK

Asset # : 1365

Mechanical	Current Repair			Future Replacement		Maintenance		
System / Component Type	% of Total	Fail Date (Years)	Estimated Cost	Year FY	Estimated Cost	Cycle (Yrs)	Estimated Cost	Priority
Plumbing								
Water Heater								
Gas Fired	100%			2026	$20,600	2	$1,300	
Recent Installation, Extent : Light, Area Affected : 100%								
Location : Basement								
HW Heat Exchanger								
Low Temp	100%			2036	* *	4	$8,700	
Sanitary Piping								
Cast Iron	100%			LIFE	* *	1		
Storm Drain Piping								
Cast Iron	100%			LIFE	* *	1		
Sump Pump(s)								
Rigid Piping	100%			2031	* *	4	$1,600	
Fixtures								
Generic	100%							
Fire Suppression								
Sprinkler								
No Component	98%							
Generic	2%			2026	$20,700	1-2	$500	

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