

City of Milwaukee

200 E. Wells Street Milwaukee, Wisconsin 53202

Meeting Minutes CAPITAL IMPROVEMENTS COMMITTEE

ALD. JOSEPH DUDZIK, CHAIR

Ald. Robert Bauman, Ald. Michael Murphy, Jeffrey Mantes, W.

Martin Morics, Mark Nicolini, and Mariano Schifalacqua

Staff Assistant: Terry MacDonald Phone: 286-2233; Fax: 286-3456, E-mail: tmacdo@milwaukee.gov

Fiscal Planning Specialist: Ms. Kathleen Brengosz Phone: 286-3926, E-mail: kbreng@milwaukee.gov

Wednesday, April 14, 2010

9:00 AM

Room 301-B, City Hall

Meeting convened: 9:05 A.M.

1. Roll call:

Members Present: 7 - Ald. Joseph Dudzik, Chair, Ald. Bauman, Ald. Murphy, Jeffrey Mantes, Craig Kammholz (W. Martin Morics Alternate), Mark Nicolini, and Mariano Schifalacqua

Members Excused: 0

Also present: Venu Gupta, Dept. of Public Works, David Schroeder and Eric Pearson, Dept. of Admin., Budget & Management Div., Marianne Walsh, City Clerk's Office, Barry Zalben, Legislative Reference Bureau, Amy Hefter, Legislative Reference Bureau and Kathleen Brengosz, Fiscal Planning Specialist

2. Review and approval of the minutes of the March 25, 2010 meeting

Mr. Nicolini moved approval of the minutes, Mr. Mantes seconded. There were no objections.

3. Presentations given by the following City departments on their proposed 2011 capital improvements budget requests:

---Police Department (Capital Improvements Requests forms - Exhibit 1)

Police Chief Edward Flynn, Chief of Staff Judy Pal, John Ledvina, Budget and Finance Manager, and Debra Lewis, Information Technology Manager appeared on this matter.

Chief Flynn gave an overview of the department,s 2011 capital improvements requests. (Exhibit 2)

Ald. Bauman said that the cost of \$210 per square foot to renovate the MPD building is high and before the City commits to that renovation project a complete analysis should be done. It may cost less to relocate to a new building.

Ald. Bauman said there has been a plan developed by the UWM School of Architecture and Urban Planning that would completely redesign MacArthur Square and could enhance the commercial value of that site. Perhaps the Police Dept. could be relocated to another site that the City already owns.

Ald. Dudzik said he feels the current building is sufficient, but he agrees with Ald. Bauman that the renovation cost is high. He asked if the space in the current building is adequate for the Police Dept.?

Chief Flynn replied in the affirmative.

Chief Flynn said he has a new master plan that he can provide to committee members. He said it would cost \$300 per square foot for a new building. He said the problem with going with a new building is that the City would still need to pay the cost for the remediation of the current building before they could sell it.

Mr. Nicolini moved to make the Police Department's PowerPoint presentation (Exhibit 2) and the MPD building master plan (Exhibit 3) a part of the record and asked that both be provided to committee members and staff. There were no objections.

Ald. Dudzik referred to the request for the front end loader and asked who would be operating the front end loader and how would it be moved from location to location?

Mr. Ledvina replied that front end loader was proposed by the staff at the Safety Academy. He said the Police Department is currently contracting out the snow removal for the Safety Academy and other police department locations.

Mr. Mantes said the Dept. of Public Works got rid of most of its excess front end loaders a few years ago, but he thinks they may have one left that the Police Dept. could use.

Mr. Ledvina said civillian police staff would operate the front end loader.

Mr. Mantes said that union Local 61 will have a problem with staff operating the equipment.

Mr. Ledvina replied that they would consider getting a civillian staff person certified to operate the loader.

Mr. Schifalacqua referred to the digital radio request and asked if there has been a request for additional monies for those radios?

Mr. Ledvina replied in the negative.

Ald. Dudzik asked how much capacity does the open sky radio system have, because DPW and Fire are looking to be included on that radio system. He asked has a study been done on the capacity?

Chief Flynn replied that digital offers more channel capacity; therefore, it is feasible to expand.

Ms. Lewis replied that the system that was purchased has plenty of space to expand. She said theier back-up plan would be to use digital phone lines. She said no study has been done, but the RFP did request that the vendor be able to provide the capacity that the City needs.

Ald. Dudzik asked if the old system is still up running?

Chief Flynn replied that the old system had to be taken down, because it was interfering with the new system frequencies.

Ald. Murphy asked when will the Police Department get the new radios?

Chief Flynn replied in the fall.

Mr. Schifalacqua asked if there has been any problem with the hand held radios getting the digital frequency inside buildings?

Chief Flynn replied in the affirmative. He said they will never be able to get the frequency in every building. He suggested that an ordinance be enacted that would require all new high rise buildings to put the signal tower equipment in the buildings.

Ald. Bauman asked if an ordinance can be introduced today to accomplish that.

Chief replied that the Police Dept. can put something together.

Ald. Dudzik asked what would the dollar amount be to put hand held radios in all the officers' hands?

Chief Flynn replied that it would cost about \$1.6 million.

Presentations given by the following City departments on their proposed 2011 capital improvements budget requests:

---Department of Public Works - Sewer Maintenance (Capital Improvements Requests forms - Exhibit 4)

Mr. Martin Aquino, Engineer and Tim Thur, City Sewer Engineer appeared on this matter.

Mr. Aquino said the Sewer Maintenance Section's 2011 capital improvements requests are for four projects with a total cost of \$38.3 million. Those four projects are: sewer maintenance relay, storm water improvements, by-pass pumps and infiltration/inflow reduction program.

Ald. Dudzik said that it seems that there is more infiltration/inflow work being done, but the cost is decreasing and asked Mr. Aquino to explain why that is.

Mr. Aquino replied that the cost has actually increased. He said the infiltration/inflow is a newer program that started about 2 years ago.

Mr. Schifalacqua referred to the 89 by-pass pumps and asked how is the Source Control and Data Acquistion (SCDA) system working?

Mr. Aquino replied that he has about \$1 million to redo the SCDA system and the communication system. He said they currently have a consultant doing the engineering study.

Mr. Schifalacqua asked if there has been any effort to eliminate some of the by-pass pumping stations?

Mr. Aquino said that the DNR would like the City to, but because of the basement back-ups it's not feasible.

Mr. Nicolini asked Mr. Aquino how are the repairs to the sanitary pumps being prioritized?

Mr. Aquino replied that the contractor inspects the pumps on a monthly basis and provides City staff with a monthly report. That report data is reviewed by staff and the pump repairs are prioritized accordingly. He said, thanks to Alderman Murphy, the department has received additional funding that will cover the cost to increase the number of inspections.

Mr. Thur replied that this year the department will do four complete by-pass pump station rehabilitations and five partial rehabs.

Mr. Kammholz asked how much relay replacement will \$30 million achieve and where does that place them in the replacement cycle?

Mr. Aquino replied that based on today's dollars they would need \$32 million to cover the 90 year replacement cycle. Mr. Aquino said they will face a spike in pipe repairs in about 10 years, because the 90 year replacement cycle will come due.

Mr. Thur replied that they have a backlog of about 200 miles of sewer pipes in need of repair.

Mr. Kammholz asked how much would it cost to cover all the backlog and keep up with all the current useful life of the sewer pipes?

Mr. Aquino replied that it would cost about \$150 per foot.

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Ald. Murphy asked how much of the stimulus funds are earmarked for sewer repairs?

Mr. Aquino replied that they have received close to \$34 million in stimulus funds and of that, 50 percent was is in the form of an interest free loan. He said most of those funds have already been used.

Mr. Kammholz replied that there was \$14.5 million in grant funds that were received last year and will be available for use this year.

Presentations given by the following City departments on their proposed 2011 capital improvements budget requests:

---Department of Public Works - Water Works (Capital Improvements Requests forms - Exhibit 5)

Ms. Carrie Lewis, Superintendent and Ms. Dinah Gant, Chief Design Engineer appeared on this matter.

Ms. Lewis said that she would like to correct a couple of the comments she made at the March 3, Capital Improvements Committee meeting. She said the first comment was about the water main breaks and said she neglected to mention that the Water Dept. has an outstanding water maintenance program. The second was her reply to Mr. Schifalacqua's question on how the ozone generators were holding up. She said the consultant said that the City is very lucky right now, because the ozone generator vendor is still in business, but getting parts in the future may be problematic. She said the generators are in good condition and will last a long time.

Ms. Lewis gave an overview of the Water Works capital program. She said the Water Works program is composed of three parts; distribution, water and feeder mains and water treatment plants. She said about 10 years ago the City spent \$100 million upgrading the treatment portion of the water treatment plants and because of those changes the City is ahead of all the regulation requirements. She said the department is now focusing on repairing the treatment plant buildings and distribution pump and storage facilities.

Ald. Murphy asked Ms. Lewis to explain the Linnwood plant improvements scheduled for 2013 in the amount of \$6 million?

Ms. Lewis replied that \$4 million is for filter media replacement and \$1 million for motor control center replacements.

Ald. Murphy asked Ms. Lewis to explain what the recent water rate increases have been?

Ms. Lewis replied that there was a rate increase of 3.8 percent in September of 2009 and 6 percent in 2007. She said they have not received approval from the Public Service Commission (PSC) for the current increase request. She said right now the rate of return is in the negative. She said when the department devised its 2011 capital improvements plan, they thought the rate increase would have been in affect in early 2010 and that did not happen, therefore, the plan will have to be changed.

Mr. Schifalacqua asked if there is a filter media replacement planned for the Howard Plant?

Ms. Lewis replied in the affirmative. It is scheduled for 2014 and 2015.

Ald. Dudzik asked Ms. Lewis to explain the meter shop capital request in the amount of \$3 million?

Ms. Lewis replied that the Water Department will embark on a meter replacement project starting in 2010. That project will take 5-8 years to complete. She said the PSC requires that the City replace the meters every 20 years. She said the batteries in the electronic meters are also coming to the end of their lives. She said the

department has to test all the meters that go in and all those that are taken out. She said they will also be renovating the Cameron distribution yard located on N. Teutonia Ave. and that will become the new meter shop.

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Presentations given by the following City departments on their proposed 2011 capital improvements budget requests:

---Library (Capital Improvements Requests forms - Exhibit 6)

Ms. Paula Kiely, Library Director and Ms. Taj Schoening, Business Operations Manager appeared on this matter.

Ms. Kiely gave an overview of the Library's 2011 capital improvements requests. She said the Library's 2011 request is higher than usual, because of the renovation needed for several library buildings and for the construction of the new facilities.

Ms. Kiely provide a PowerPoint Presentation (Exhibit 7). She explained how the library system was founded. She gave an overview of the library's current inventory. She also gave an overview of the library's previous operating budgets (2000-2009) and on its plans for the future. Lastly, she explained in detail each of the library's capital improvement requests currently in process and those they are planning for over next few years.

Ald. Murphy asked where does Ms. Kiely see the library in the next five to ten years? He asked will there be a need for all the library buildings, with all the new technology that offers downloadable books, etc.?

Ms. Kiely replied that she see the library as being much stronger in the future and will be needed more than ever. She said the libraries will always need to have books and computer access available to the community. She said the libraries are also used by the community for a meeting place, etc.

Ald. Bauman asked who controls the Library's capital improvements budget decisions, the Council or the Library Board?

Ms. Kiely replied that Library budget is approved by the Common Council.

Mr. Schifalacqua referred to the Library's capital improvements request under Neighborhood Library program - new construction and it shows a cost of \$1 million in 2011 to be used for planning and \$6 million in 2012 and asked Ms. Keily to explain what that cost would cover.

Ms. Keily replied that the total amount of \$7 million will cover the cost for the planning, the property, the construction of one new library and for all the furniture.

Ald. Murphy asked what monies does the library have in its budget to deal with the closure and consolidation of the two libraries into one new library?

Mr. Kammholz replied that Library Board has reviewed and discussed a plan for the closure of those two library buildings. He said that the plan showed a \$17.5 million net savings over 35 years. He said the 35 year is related to the existing life of those facilities, but the the first 15 years there will be a debt service, therefore, the net would probably break even.

Ms. Kiely replied that they have a plan that was prepared by the Budget Office and shared with the Library Board and she will provide that to the members.

Mr. Schifalacqua said the dollar amount requested doesn't seem like it would be

enough to cover the cost to close and constructed a new library.

Ms. Keily replied that the amount requested is an estimate.

4. Next meeting date, time and agenda

May 5, 2010 at 9:00 A.M. in Room 301-B.

The following Department will give their 2011 Proposed Capital Improvements requests presentation at the May 5 meeting:

Fire Department
Dept. of City Development
Health Department
Port of Milwaukee
Dept. of Admin., Business Operations Div.
Dept. of Admin., Information Technology Management Div.
Assessor

City Attorney Common Council - City Clerk

Meeting adjourned: 11:12 A.M.

Terry J. MacDonald Staff Assistant

This meeting can be viewed in its entirety through the City's Legislative Research Center at http://milwaukee.legistar.com/calendar.

Capital Improveme Request Part II

Requesting Department: Poli	ce				-					
Project/Program Title:	trict Station Ren	ovation Program -	Repl D2 En	nergency G	eneratc Acco	unt No):		,	
Year	•	Levy/Borrowing			Revenue		Special			
Remaining Balance for 2010					Vevellae	\neg	Assessmen	<u>t</u>	Enterprise	Total Cost
2011 Budget Request		\$100,000								\$
2012 Projection								-		\$100,000
2013 Projection					<u> </u>		 	-	· ·	\$0
2014 Projection	`									\$(
2015 Projection								_		
2016 Projection										\$0
Total Six Year Cost		\$100,000		\$0	· · · · · · · · · · · · · · · · · · ·		<u> </u>			\$0
Total Project Cost		\$100,000		\$0		\$0		BO	\$0	\$100,000
		4.00,000		φυ	<u> </u>	\$0		\$ 0	\$0	\$100,000
ife to Date Expenditures (Project Only)		\$0		\$0	 	\$0		ho 1		· · · · · · · · · · · · · · · · · · ·
,	<u> </u>			- φυ		ΦU		60	\$0	\$0
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Projects Unsupported	2011 ☑ ☐ ☑	2012	2013	2014 	2015		2016			•
Vere cost estimates confirmed by anoth re cost estimates based on industry sta Vill city employees be performing any po id you perform a cost/benefit analysis?	andards? ortion of the wo	rk?	☑ Yes ☑ Yes ☑ Yes ☑ Yes	No No No No No	Uncertain Uncertain Uncertain Uncertain					•
low will this project impact city operating	g expenditures?		☐ Increase	e 🗹 De	crease Non	ne	٠			
stimated Start Date:	03/01/11	·				e.				
stimated Completion Date:	12/3 t/11		•	_		-				
		. ם	Department l	Head Signa	ature <u></u>	Uw	AN S	<u></u>		
		•	repared By				()	_	egg/DaveSkorzews	ki935-7534

Capital Improvement Request Form Part I



Pro	oject/Program Title:Tiburon RMS VMP Upgrade Requesting Department:Police
P	ed By/Phone Ext: JohnLedvina9357495PeterGnas9357410 Department Head Signature:
Au.	- Junt No:
A)	Department Priority of Useful Life Years Level of Need Essential Important Desired Type of Project New Replacement Repair Project/Program Scope Fully Defined Partially Defined
	☐ On-Going Program
В)	Description Infrastructure Street Related Sewer Water Street Lighting Communications Recreation Sidewalks Alleys Bridge Environmental Port Parking Building Roof Windows HVAC Electrical Restroom Security Exterior Entire Facility ADA Office Remodeling New Building Elevators Garage Mechanical Miscellaneous Development Economic Information Systems
Ĺ	
c)	Project/Program Duration One Year
D)	Total Positions Total FTEs Salaries \$ Salaries \$ \$ \$
Ε) Γ	In Six Year Capital Improvement Plan
	Yes 2009-2014 2010-2015 Yes, Modified Vew Request
F) = ==================================	Project/Program Justification The current implemented RMSTi, ARS, WebQuery, Property, WIBRS and ARS Mobile are version 7.4 and the CMS system is version 7.4.2 while the current version supported by Tiburon is 7.6. In order to remain within the terms of the Version Management Program and standard support, it is essential that MPD upgradrade these systems. In addition, The Tiburon Systems and its components are running on a Oracle 8.2c which is multiple versions past general support as well, Tiburon is currently developing systems in the Microsoft SQL Server platform. The systems and hardware components are outside of their extended warranty and are mostly outdated and near capacity with no exapandability available. The Tiburon upgrade will provide enhancements in the area of systems performance, with the newer technology hardware and as well, will provide greater flexibility in reporting and analysis with the change in database platforms. Key enhancements have been made in the client which provide greater details as well. Additional Comments Tiburon has provided a detailed proposal including scope, statement of work and cost estimates with the exception of hardware.

Capital Improvem Request Part II

Requesting Department:	Police	·			•				
Project/Program Title:	Tiburon RMS	VMP Upgrade			—— Account	Account No:			
Year Remaining Balance for 2010		Tax Levy/Borrowi	ng Grar	nt & Aid	Revenue	Special Assessmen	t Enterprise	Total Cost	
2011 Budget Request								\$0	
2012 Projection		\$354,00	0		-			\$354,000	
2013 Projection		·						\$0	
2014 Projection						1		\$0	
2015 Projection					•			\$0	
2016 Projection								\$0	
		<u> </u>						* \$0	
Total Six Year Cost	·	\$354,00	0	\$0	. \$0		\$0 \$0	\$354,000	
Total Project Cost	. [\$354,000	0.	\$0	\$0		50 \$0	\$354,000	
Alfa I. D. I. G	F								
Life to Date Expenditures (Project	Only)	\$0	o	\$0	\$0	\$	50 \$0	\$0	
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Project Unsupported			2013	2014	2015	2016 			
Were cost estimates confirmed by Are cost estimates based on indust Will city employees be performing a Did you perform a cost/benefit anal	try standards? any portion of the ysis?	e work?	☐ Yes ☑ Yes ☑ Yes ☑ Yes	□ No □ No □ No □ No	Uncertain Uncertain Uncertain Uncertain				
How will this project impact city ope	erating expenditu	ıres?	☐ Incre	ase 🗌 De	crease V None				
Estimated Start Date:	02/01/	11		•	•			→ *	
Estimated Completion Date:	04/01/	11	Departmen	ıt Head Signa	ature <u>Llm</u>	arl DE			
•			Prepared E	By/Phone Ext	Peter Gn	as / 935-74 [0 Joi	nn Ledvina / 935-7495		

•		Capita	l Improveme	nt Request	Form Part I	(i)
· Pr	oject/Program Title:	Remodel Administ	tration Building Offices	Requesting De	epartment: Police	ge
Pr	epared By/Phone Ext:	John Ledvina 935-	-7495	Department H	ead Signature: Edus	11434
Αl	unt No:	PL120080700		<u>.</u>	· ·	
A)	Department Priority	<u>3</u> of 10	Useful Life 30-50	Years Level	of Need Essential	✓ Important ☐ Desired
	Type of Project	New Replacem	ent Repair	Project/Program	m Scope 🗸 Fully Defin	
		On-Going Program				
B)	Description				· · · · · · · · · · · · · · · · · · ·	
	Infrastructure Street Related	Sewer	Water	Street Lighting	Communications	,
	Sidewalks	Alleys	☐ Water	Environmental	Port	Recreation Parking
	Building ☐ Roof ☐ Windo	ws HVAC	Electrical Re	estroom \scale		
		Remodeling	☐ New Building ☐ El		curity Exterior Tage Mechanical	✓ Entire Facility
	Miscellaneous Devel	· · · ·		Cvators Gai	age Mechanical	
ĺ	Economic In	formation Systems	☐ Equipment	Other		·
C)	Project/Program Dura	ation				
	One Year	Yes No			*	
	On-Going Program	✓ Yes	o			,
	^ {ulti-Year	Yes No	Number of Yea	rs		
D)	Total Positions	Total FT	Es			
	Position Title		No. of Posi	tions	FTEs Salari	es \$
			·			\$
. [\$
E)	In Six Year Capital Imp		, 			
Ī	Yes 2009-2014	2010-2015	Yes, Mo	dified Nev	w Request	-
F)	Project/Program Justi	fication				
	The Police Administra was built. The electric	cai systems are in	nadequate to suppo	rt the needs of m	iodern technology an	d cuirrant staffing lavale
	The proposed renovative which were replaced in	tion includes subs	stantial reconstructi	on of all building.	systems except alove	store and LIVAC plant
	Utilization Study by Ep	pstein Uhen Arch	nitects and associat	tes. The study re	eport will be forwarde	d shortly when final.
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			· · · · · · · · · · · · · · · · · · ·			
G)	Additional Comments					
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	ik.				9 4020000 1011100	ar and other brehatation
	e e					
		1				

Capital Improveme Request Part II

Requesting Department:	Police					_	•				
Project/Program Title:	Remodel Administration Building Offices					——— Account	Account No: PL120080700			*	
Year Remaining Balance for 2010		Tax Le	vy/Borr		Gran	nt & Aid	Revenue	Special Assessme	nt I	Enterprise	Total Cont
2011 Budget Request				3,450	<u> </u>	<u>. </u>				-interprise	Total Cost \$373,450
•			\$5,879	9,131							\$5,879,131
2012 Projection	•	-	\$14,702	2,566							
2013 Projection			\$12,866	3,420					_ -		\$14,702,566
2014 Projection			\$10,357	,525							\$12,866,420
20 t5 Projection			\$2,515	,217					·		\$10,357,525
2016 Projection											\$2,515,217
Total Six Year Cost			\$46,320	,859		\$0					.\$0
Total Project Cost			\$46,694			\$0	\$0		\$0	\$0	\$46,320,859
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Life to Date Expenditures (Project	t Only)			\$0			•	T	· ·	<u> </u>	
		L	·	ΨΟ.]		\$0	\$0		\$0	\$0	\$0
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Projec Unsupported			2012 ✓ — —		2013	2014 ✓ ✓ ✓	2015	2016			÷
Were cost estimates confirmed by Are cost estimates based on indus Will city employees be performing Did you perform a cost/benefit ana	stry standards? any portion of ti				✓ Yes ✓ Yes ✓ Yes ✓ Yes	☐ No ☐ No ☐ No ☐ No	Uncertain Uncertain Uncertain Uncertain Uncertain				
How will this project impact city op	erating expendi	tures?	•		☐ Increa	se 🗸 De	crease			-	
Estimated Start Date:	01/01	/11				•		•			
Estimated Completion Date:	12/31		,							e e e e e e e e e e e e e e e e e e e	
				D	epartment	t Head Signa	ature Mun	AN T	262		
	•		, ,	P	repared B	y/Phone Ext	John Led	lvina 935-7495 Da	V ave Skorze	ewski 935-753	4

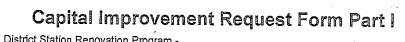
Capital Improvement Request Form Part I

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Pr	roject/Program Title:	Evidence Warehouse -Storage Upgrade	Requesting Department:	Police
(hared By/Phone Ext:	John Ledvina 935-7495	Department Head Signature:	Edwild In
Ac	count No:	PL120040100	3	
A)	Type of Project Ne	of 10 Useful Life 30 W Replacement Repair Going Program	Years Level of Need E	ssential Important Desired Lily Defined Partially Defined
B)	Description Infrastructure Street Related Sidewalks Building Roof Windows ADA Office Rem Miscellaneous Developm Economic Inform	nodeling New Building Elev	☐ Environmental ☐ Port troom ☐ Security ☐ Exte	
c)		n Yes □ No Yes □ No Yes □ No Number of Years Total FTEs		
	Position Title	No. of Positio	ns FTEs	Salaries \$ \$ \$ \$
E) [In Six Year Capital Improv Yes 2009-2014 [vement Plan ☑ 2010-2015 ☑ Yes, Modifi	ed New Request	
1	that eliminates aisle space homicide floor. Maintaining all homicide e	tion the Evidence Warehouse is used so nelving (Est. \$10,000) could extend e would increase existing capacity evidence is required throughout the ld case" evidence for further invest	the capacity one to two years up to 80% adding SEVEN PL	uS years to the capacity of the
			agation justifies storing it all if	one location.
	Additional Comments		-	
	Toguirates the shelves	n a vendor quote for installing track, s could be moved mechanically or ead over a multi-year time span.	, shelving, and a propulsion nelectrically. Since the shelves	nechanism. Depending upon are modular, they could be

Capital Improveme Request Part II

Requesting Department: Police						·		
Project/Program Title: Evider	nce Warehouse	e - Storage Upgr	ade		Account N	lo: PL1200401	00 ,	,
Year	Tax L	evy/Borrowing	Grant	t & Aid	Revenue	Special Assessment	Enterprise	Total Cost
Remaining Balance for 2010						7.0000001112112	Litterprise	10tal Cost
2011 Budget Request		\$100,000						\$100,000
2012 Projection								\$0
2013 Projection	-							\$0
2014 Projection	· · · · · ·							\$0 \$0
2015 Projection		<u></u>	<u> </u>				<i>.</i>	\$0 \$0
2016 Projection			·					
Total Six Year Cost	-	\$100,000		\$0	\$0	\$0	# 0	\$0
Total Project Cost		\$100,000		\$0	\$0	\$0	\$0	. \$100,000
	· I			<u>_</u>	φυ	\$0	\$0	\$100,000
Life to Date Expenditures (Project Only)		\$0.		\$0	\$0	\$0.	\$0	\$0
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Projects Unsupported	2011 ☑ ☐ ☑ ☐	2012 	2013	2014 	2015	2016		
Were cost estimates confirmed by another Are cosl estimates based on industry stan- Will city employees be performing any port Did you perform a cost/benefit analysis?	dards?	?	☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes	☑ No □ No ☑ No □ No	Uncertain Uncertain Uncertain Uncertain Uncertain			
How will this project impact city operating e	expenditures?		☑ Increa	ise 🗌 De	ecrease None			
Estimated Start Date:	01/01/11				•	•		
Estimated Completion Date:	05/01/11		Departmen	t Head Sign	nature Turn	I All	·	
				v/Phone Fx		vina 935 7405 / Phi	Nin Tuorenelii 005 70	200





	oject/Program Title:	Replace Radio Shop HVAC Roof Units	Requesting Department: Police	
F	ared By/Phone Ext:	John Ledvina 935-7495	Department Head Signature:	
Ac	count No:			
A)	Department Priority	of/OUseful Life10-12	Years Level of Need Essential Important Desired	
· · .	Type of Project	New 🗹 Replacement 🗌 Repair On-Going Program	Project/Program Scope Fully Defined Partially Defined	
B)	Miscellaneous Devel	Remodeling New Building Ele	Street Lighting Communications Recreation Environmental Port Parking estroom Security Exterior Entire Facility evators Garage Mechanical Other	
c)	Project/Program Dura	ation		\dashv
	One Year On-Going Program	Yes No Yes No Yes No No Number of Year	rs	
D)	Total Positions	Total FTEs No. of Posit	tions FTEs Salaries \$ \$ \$	
۲ [
=)	In Six Year Capital Im Yes 2009-2014		dified	
F) [Yes 2009-2014 Project/Program Justi The existing Radio Sh	ification nop HVAC roof top units are on a ten	-year replacement cycle. The split HVAC unit located on the increasingly frequent repairs to continue operating.	
F) [Project/Program Justi The existing Radio Sh Mezzanine Level is an	Yes, Months are on a tentroproximately 15 years old and needs	-year replacement cycle. The split HVAC unit located on the	f
F) [Project/Program Justi The existing Radio Sh Mezzanine Level is an	Yes, Months are on a tentroproximately 15 years old and needs	-year replacement cycle. The split HVAC unit located on the increasingly frequent repairs to continue operating.	f
F) [Project/Program Justi The existing Radio Sh Mezzanine Level is an	ification nop HVAC roof top units are on a tenproximately 15 years old and needs of losing radio communications equip	-year replacement cycle. The split HVAC unit located on the increasingly frequent repairs to continue operating.	f
F) [Project/Program Justi The existing Radio Sh Mezzanine Level is an There is a possibility of time.	ification nop HVAC roof top units are on a tenproximately 15 years old and needs of losing radio communications equip	-year replacement cycle. The split HVAC unit located on the increasingly frequent repairs to continue operating.	f
F) [Project/Program Justi The existing Radio Sh Mezzanine Level is an There is a possibility of time.	ification nop HVAC roof top units are on a tenproximately 15 years old and needs of losing radio communications equip	-year replacement cycle. The split HVAC unit located on the increasingly frequent repairs to continue operating.	f

Capital Improveme Request Part II

Requesting Department:	Police	y							
Project/Program Title:	District Station	Renovation Program	Repl Radi	io Shop HVA	C Acc	ount N	0.		
Year Remaining Balance for 2010	`	Tax Levy/Borrowing		t & Aid	Revenu		Special Assessment	Enterprise	Total Cost
2011 Budget Request		\$200,000					· · · · · · · · · · · · · · · · · · ·		\$0
2012 Projection		\$200,000		<u> </u>					\$200,000
2013 Projection									\$0
2014 Projection				-					\$0
2015 Projection					· · · · · · · · · · · · · · · · · · ·				\$0
2016 Projection	}								\$0
Total Six Year Cost		\$200,000	-					· · · · · · · · · · · · · · · · · · ·	\$0
Total Project Cost	}	\$200,000	 	\$0	·	\$0	\$0	\$0	\$200,000
	· . L	Ψ200,000		\$0		\$0	\$0	\$0	\$200,000
Life to Date Expenditures (Project	: Only)	\$0		00	·				-
	" L	ΨΟ		\$0		\$0	\$0	\$0	\$0
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Projec Unsupported		2012 	2013	2014 	2015		2016		
Were cost estimates confirmed by Are cost estimates based on indus Will city employees be performing Did you perform a cost/benefit ana	try standards? any portion of the		✓ Yes ✓ Yes ☐ Yes ☐ Yes	□ No □ No □ No □ No	Uncertain Uncertain Uncertain Uncertain				
How will this project impact city op	erating expenditu	res?	☐ Increa	se 🗹 De	crease No	one			
Estimated Start Date:	03/01/1	1 ,						-	
Estimated Completion Date;	12/31/1	1				سنبر	,		1
			epartment	t Head Sign	ature	di	and A 4	Hr-	
		. Pi	repared B	y/Phone Ext	Joh	nLėdvin	a935-7495 GordvG	regg/DaveSkorzews	ki035-7524

Capital Improvement Request Form Part I

5	6	*
	_	

Pro	oject/Program Title:	Evidence Warehouse-Security Upgrade Requesting Department: Police
7	`ared By/Phone Ext: _	John Ledvina 935-7495 Department Head Signature: Eliminate Francisco
Acc	count No:	PL120040100
.A)	Department Priority	6 of 10 Useful Life 20 Years Level of Need Essential Important Desired
	Type of Project \[\int \n \]	lew Replacement Repair Project/Program Scope Fully Defined Partially Defined On-Going Program
B)	Miscellaneous Develor	emodeling New Building Elevators Garage Mechanical
C)	Project/Program Durati One Year On-Going Program Julti-Year	
D)	Total Positions Position Title	Total FTEs
E) [In Six Year Capital Impr Yes 2009-2014	ovement Plan 2010-2015 Yes, Modified New Request
-	bivision. The report no storage floors/areas wit	building security update was identified in a 2009 report from the Professional Performance ted the Evidence Storage Warehouse had restricted access to the building, but not to evidence hin the building. By restricting access and documenting the movement of authorized personnel rity of all types of stored evidence would be significantly improved.
2	Intexisting door are o	a vendor quote for hardwiring multi-format proximity readers at all interior and exterior doors. utdated and may need replacement to work with the proximity readers. A second phase of the ne analog non-recording black and white security cameras with color digital cmeras recording over.

Capital Improveme Request Part II

Requesting Department: Police			·.			
Project/Program Title: Evidence	Warehouse - Security U	pgrade	Account	No: PL12004010	0	
Year	Tax Levy/Borrowi	ng Grant & Aid	Revenue	Special Assessment	Entororio	T-1-10
Remaining Balance for 2010				Assessment	Enterprise	Total Cost
2011 Budget Request	\$175,00	00				
2012 Projection					. ,	\$175,000
2013 Projection						\$0
2014 Projection						\$0
2015 Projection						\$0
2016 Projection	-					\$0
Total Six Year Cost	\$175,00	00 \$0	\$0	\$0	\$0	\$0
Total Project Cost	\$175,00					\$175,000
	<u> </u>		Ψο	ΦΟ	\$0	\$175,000
Life to Date Expenditures (Project Only)	\$	0 \$0	\$0	\$0	\$0	\$0
Thorough Cost Estimate Limited Information Based on Cost of Similar Projects Unsupported	2011 2012		14 2015	2016		- -
Were cost estimates confirmed by another so Are cost estimates based on industry standard Will city employees be performing any portion Did you perform a cost/benefit analysis?	is?	☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No	✓ Uncertain ☐ Uncertain ☐ Uncertain ✓ Uncertain			•
How will this project impact city operating expe	enditures?	☑ Increase ☐	Decrease None			•
estimated Start Date: 0	1/01/11					
Estimated Completion Date: 0	5/01/11	Department Hood C	anoturo Eli	inst 10	Hon-	
U.	JOH 11	Department Head Si		dvina 935-7495 Phillip		58

Capital Improvement Request Form Part I Evidence Warehouse - Automated



Project/Program Title: Elevator Controls	_ Requesting Department: Police
ared By/Phone Ext:	Department Head Signature:
Account No: PL120040100	- /
A) Department Priority of Useful Life 30	Years Level of Need Essential Important Desired
Type of Project ☐ New ☐ Replacement ☐ Repair ☐ On-Going Program	Project/Program Scope Fully Defined Partially Defined
B) Description	
Infrastructure ☐ Street Related ☐ Sewer ☐ Water	
Sidewalks Alleys Bridge Building	□ Street Lighting □ Communications □ Recreation □ Environmental □ Port □ Parking
☐ Roof ☐ Windows ☐ HVAC ☐ Electrical ☐ Re	stroom Security Exterior Entire Facility
ADA Office Remodeling New Building VEI	wators Garage Mechanical
Miscellaneous Development Economic Information Systems Equipment	Other
C) Project/Program Duration One Year Yes No	
On-Going Program ✓ Yes ☐ No No Number of Year	s
D) Total Positions Total FTEs	
Position Title No. of Posit	ons FTEs Salaries \$
	Ons FIES Salaries \$ \$
	\$
E) In Six Year Capital Improvement Plan	
Yes 2009-2014 2010-2015 Yes, Moo	ified New Request
Project/Program Justification	
The exisiting elevator is very old and movement is controlle stops difficult, and a safety hazard. Additionally the elevator prevented by upgrading the electrical controls.	ed by manually pulling cables. This makes safe (level) floor occassionally sticks between floors which could be
Additional Comments 2011 Estimate (\$50,000) based on amount proposed for the	e 2008 budget with 15% adjustment for three years of

Capital Improvemer Request Part II

Requesting Department:	Police						•		
Project/Program Title:	Evidence War	ehouse - Autom	ated Ele	evator Cont	rols	Account	No: PL12004010	00	
Year Remaining Balance for 2010	• .	Tax Levy/Borr	owing	Grant	& Aid	Revenue	Special Assessment	Enterprise	Total Cost
								271015130	\$(
2011 Budget Request		\$50	0,000						\$50,000
2012 Projection	•	•							
2013 Projection	· ·						 		\$0
2014 Projection						,	 		. \$0
2015 Projection							-		\$0
2016 Projection	_	-							, \$ C
Total Six Year Cost		\$50	0,000		\$0				\$0
Total Project Cost	. '		,000		\$0	\$0	\$0	\$0	\$50,000
		· · · · ·	,,000	· · ·	\$0	\$0	\$0	\$0	\$50,000
Life to Date Expenditures (Project C	only) [\$0				T		<u> </u>
	, L		Φ 0		\$0	\$0	\$0	\$0	\$0
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Projects Unsupported	2011	2012		2013	2014 	2015 	2016 		
Were cost estimates confirmed by a Are cost estimates based on industry Will city employees be performing are Did you perform a cost/benefit analys	y standards? ny portion of the			☐ Yes ☐ Yes ☐ Yes ☐ Yes	☐ No ☐ No ☑ No ☐ No	✓ Uncertain ✓ Uncertain ☐ Uncertain ✓ Uncertain			
How will this project impact city open	ating expenditu	res?		☐ Increase	e 🗌 De	crease 🗹 None			·
Estimated Start Date:	01/01/1	11							
Estimated Completion Date:	05/01/1						•		
· · · · · · · · · · · · · · · · · · ·				epartment i			11 95- vina 935-7495/ Phillip		-

Capital Improvement Request Form Part I



	oject/Program Title:	Evidence Warehouse Fire Supression	Requesting Department: Police
	ared By/Phone Ext:	John Ledvina 935-7495	Department Head Signature:
Ac	count No:	PL120040100	. (/
A)	Department Priority	of 0 Useful Life 30	Years Level of Need Essential Important Desired
		New Replacement Repair On-Going Program	Project/Program Scope Fully Defined Partially Defined
В)	Description		
	Infrastructure Street Related		
.	Sidewalks	Sewer Water Alleys Bridge	□ Street Lighting □ Communications □ Recreation □ Environmental □ Port □ Parking
	Building		Environmental
	Roof Windo	ws HVAC Electrical Re	stroom Security Exterior Dentire Facility
İ		Remodeling New Building Ele	vators Garage Mechanical
-	Miscellaneous Develo	· '	
Ļ		formation Systems	Other Fire Supression System
C)	Project/Program Dura	ation	
	One Year	Yes No	•
ا ا	On-Going Program	✓ Yes	
(.vlulti-Year	Yes No Number of Year	S
D)	Total Positions	Total FTEs	
	Position Title	No. of Posit	
- 1	i Obition i itto	No. of Posit	ons FTEs Salaries \$
	, '	,	\$
		,	
	In Six Vega Conited In-		\$\$ \$
E)	In Six Year Capital Imp Yes 2009-2014	•	\$\$ \$
E) [☑ 2010-2015 ☐ Yes, Mod	\$\$
F)	Yes 2009-2014 Project/Program Justi Currently there is no fi	✓ 2010-2015 Yes, Mod	S S S S S S S S S S S S S S S S S S S
F)	Yes 2009-2014 Project/Program Justi Currently there is no fi working in the building	✓ 2010-2015 Yes, Mod	A fire supression system is vital to the safety of people
F)	Yes 2009-2014 Project/Program Justi Currently there is no fi working in the building	✓ 2010-2015 Yes, Mod	A fire supression system is vital to the safety of people
F)	Yes 2009-2014 Project/Program Justi Currently there is no fi working in the building	✓ 2010-2015 Yes, Mod	A fire supression system is vital to the safety of people
F) G)	Yes 2009-2014 Project/Program Justi Currently there is no fi working in the building building code. Additional Comments	☑ 2010-2015 ☐ Yes, Mod fication fre supression system in the building. g as well as to the presevation of phys	A fire supression system is vital to the safety of people sical evidence. A fire supression system is also mandated by
F) G)	Yes 2009-2014 Project/Program Justi Currently there is no fi working in the building building code. Additional Comments	✓ 2010-2015 Yes, Mod	A fire supression system is vital to the safety of people sical evidence. A fire supression system is also mandated by
F) G)	Yes 2009-2014 Project/Program Justi Currently there is no fi working in the building building code. Additional Comments	☑ 2010-2015 ☐ Yes, Mod fication fre supression system in the building. g as well as to the presevation of phys	A fire supression system is vital to the safety of people sical evidence. A fire supression system is also mandated by

Capital Improveme Request Part II

Requesting Department: Police						•		
Project/Program Title: Evider	nce Warehouse -	Fire Supressi	on		——— Account N	No: PL12004010	00	
Year	- .	(m				Special		
Remaining Balance for 2010	Tax Lev	y/Borrowing	Grant &	Aid	Revenue	Assessment	Enterprise	Total Cost
2011 Budget Request		#207 00p				2.4		\$0
2012 Projection		\$267,800					'	\$267,800
2013 Projection	·							\$0
2014 Projection	<u> </u>		<u> </u>			,		\$0
2015 Projection			<u>. </u>					\$0
2016 Projection								\$0
Total Six Year Cost								\$0
		\$267,800	<u>, , , , , , , , , , , , , , , , , , , </u>	\$0	\$0	\$0	\$0	\$267,800
Total Project Cost		\$267,800	·····	\$0	\$0	\$0	\$0	\$267,800
I Water Date of the Control of the C			* - 1					_
Life to Date Expenditures (Project Only)		\$0		\$0	\$0	\$0	\$0	\$0
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Projects Unsupported	2011	2012	2013	2014	2015 	2016		
Were cost estimates confirmed by another Are cost estimates based on industry stand Will city employees be performing any port Did you perform a cost/benefit analysis?	dards?		✓ Yes	☐ No ☐ No ☐ No ☐ No	✓ Uncertain ☐ Uncertain ✓ Uncertain ✓ Uncertain			•
How will this project impact city operating e	expenditures?		☑ Increase	☐ De	crease None	•	·	
Estimated Start Date:	01/01/11				•			2
Estimated Completion Date:	12/31/11		,		- Service of the serv			
		E	Department H	ead Sign	ature <u>Awn</u>	rls 92	~	
		F	repared Bv/P	hone Ex	t dob. t	vina 935-7495 / Phill	in Tuozunaki 025 76	60

Capital Improvement Request Form Part I



Project/Program Title:	District Station Renovation Program - Comm/Data Restrooms	Requesting Department: Police
Pared By/Phone Ext:	John Ledvina / 935-7495	Department Head Signature:
Account No:		- Commit
. <u></u>	of 0 Useful Life 20 New Replacement Repair On-Going Program	Years Level of Need Essential Important Des
Miscellaneous Develo	Remodeling New Building Ele	Street Lighting Communications Recreation Environmental Port Parking stroom Security Exterior Entire Facility vators Garage Mechanical Other Personnel need for additional accommodations
One Year On-Going Program Ilti-Year Total Positions Position Title	ation ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No Number of Years ☐ Total FTEs ☐ No. of Positi	
In Six Year Capital Imp	provement Plan	\$ \$ \$
Yes 2009-2014	•	ned New Request
i ologonimanioalogi. D	n's restrooms adjoining the Commun ispatchers, other third floor staff, and m. The 911 Telecommunicators and	cations Center on the Third Floor are shared by in-service trainees using the nearby Emergency Operation Dispatchers need quick, unrestricted access to a restroom
Additional Comments Estimate is for plumbing	and fixtures only. DPW Administra	ion fees and roughing in the room(s) additional.

Capital Improvemer Request Part II

Requesting Department:	Police								. *
Project/Program Title:	District Statio	n Renovation Program	- C/D Restr	ooms	Accou	Account No:			
Year Remaining Balance for 2010		Tax Levy/Borrowing	ı Gran	t & Aid	Revenue	Spe	cial sment	Enterprise	Total Cost
2011 Budget Request		, \$0			· .				\$0
2012 Projection	••	\$100,000							\$100,000
2013 Projection									\$0
2014 Projection			<u> </u>				·		\$0
2015 Projection			, , , , , , , , , , , , , , , , , , ,		-				\$0
2016 Projection			ļ <u> </u>						\$0
Total Six Year Cost									\$0
Total Project Cost		\$100,000		\$0		\$0	\$0	\$0	+\$100,000
Total Toject Cost		\$100,000	<u> </u>	\$0		\$0	\$0	\$0	\$100,000
Life to Date Expenditures (Project	0.1.		r				-		-
the to bate experiences (Project	Only)	\$0		\$0		\$0	\$0	\$0	\$0
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Project Unsupported			2013	2014	2015	2016			
Were cost estimates confirmed by Are cost estimates based on indus Will city employees be performing Did you perform a cost/benefit and	try standards? any portion of th		✓ Yes ✓ Yes ✓ Yes ✓ Yes	☐ No ☐ No ☐ No	Uncertain Uncertain Uncertain Uncertain Uncertain				
How will this project impact city ope	erating expenditu	ures?	☐ Increas	se 🗌 De	crease None				
Estimated Start Date:	03/01/								
Estimated Completion Date:	12/31/								+
		•	Department	t Head Signa	ature Sin	arld L	52-		
		F	repared By	y/Phone Ext	lohol a	edvina935749	CorduC	an Day of	'00rzeo :

Capital Improvement Request Form Part I

Project/Program Title: Major Capital Equipment		Major Capital Equipment	Requesting Department: Police				
Pr	enared By/Phone Ext:	John Ledvina 935-7495	Department Head Signature: Edward Dy				
Ac	count No:						
A)	Department Priority	<u> </u>	Years Level of Need Essential Important Desired				
	Type of Project	New Replacement Repair On-Going Program	Project/Program Scope Fully Defined Partially Defined				
B)	Infrastructure Street Related Sidewalks Building Roof Windo	Alleys Bridge	Street Lighting Communications Recreation Environmental Port Parking troom Security Exterior Entire Facility ators Garage Mechanical				
	Miscellaneous Devel	opment	Other				
C)	Project/Program Dur One Year On-Going Program Julti-Year	ation ☑ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No Number of Years					
D)	Total Positions Position Title	Total FTEs No. of Position	ons FTEs Salaries \$ \$ \$				
E)	In Six Year Capital Im Yes 2009-201		fied New Request				
F)	 Department locations 	0,000. 1.5 yard bucket. To be used for	r snow removal at the Safety Academy and other Police 75.00 per hour. Estimate a SIX YEAR payback. Current facilities own capability preferred.				
3)	Additional Comments						
	Specific requests for a crease capacity to notice.	2011 include additional funding for med nodern standards, and begin 5th floor	chanical shaft replacement, fire pump replacement to renovation including asbestos removal and other preparation				

Capital Improvem Request Part II

Requesting Department: Police						
Project/Program Title: Major Car	ital Equipment		Accou	ınt No:		, •
Year	Tax Levy/Borrowing	Grant & Aid	Revenue	Special Assessment	t Enterprise	Total Cost
Remaining Balance for 2010	\$0					\$0
2011 Budget Request	\$70,000					\$70,000
2012 Projection	\$0					\$0
2013 Projection	\$0					\$0
² 2014 Projection	\$0					\$0
2015 Projection	\$0					\$0
2016 Projection	\$0					\$0
Total Six Year Cost	\$70,000		\$O	\$0 \$	\$0 \$0	\$70,000
Total Project Cost	\$70,000		\$0	\$0 \$	\$0 \$0	\$70,000
		·				
Life to Date Expenditures (Project Only)	\$0		\$0 /	\$0 9	\$0 \$0	\$0
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Projects Unsupported	2011 2012	2013 2	2014 2015	2016		: .
Were cost estimates confirmed by another so Are cost estimates based on industry standard Will city employees be performing any portion Did you perform a cost/benefit analysis?	ds?	✓ Yes	lo Uncertain			
How will this project impact city operating expo	enditures?	☐ Increase [☑ Decrease ☐ Non	ne		
Estimated Start Date: 0	1/01/11					
Estimated Completion Date: 0	6/01/11			•		
		Department Head	Signature ZM	earl Syn	-	
		Prepared By/Phon	e Ext Johr	n Ledvina 935-7495 R	ay Olke 935-7954	

Capital Improvements Committee 2011 Capital Request



April 14, 2010

Chief Edward A. Flynn Milwaukee Police Department

Capital Strategic Objective

- Maintain and initiate improvements to existing facilities to ensure the safety and security of MPD employees
- Fund technology and capital equipment projects that allows MPD to provide neighborhood police presence, prevent crime, apprehend criminals, and investigate criminal activity in the City of Milwaukee

Capital Funding

- 2009 Budget **\$6.7** million
 - \$1.1 million expended
 - \$4.8 million encumbered
 - \$800,000 available for evidence storage and PAB electrical substation
- 2010 budget **\$4.2** million
- 2011 REQUEST \$7.3 million

2009/10 Accomplishments

- ◆ 5th District Station HVAC upgrade
- NTF renovation, parking lot expansion
- Evidence Storage Warehouse upgrade
 - 4th floor HVAC, fire alarms, chiller
- 911 System Replacement
 - 911 System, Call Recording System, telephones, voice mail all integrated

2009/10 Accomplishments

- PAB cooling tower replaced
- PAB electrical substation upgraded
- PAB COMP STAT Room completed
- PAB Space Utilization Study/Master Building Plan completed

2010 Capital Projects: Early Stages





- Automated Fingerprint Identification System
- 4th District Station HVAC replacement
- PAB Mechanical Shafts
 - Liners failing and nearing capacity
- PAB Domestic Water Pump Replacement
 - 40 y/o obsolete equipment; repair and parts difficult
 - At capacity limits
- PAB Lower Garage Floor Restoration

2011 Capital Budget Request

- Evidence Warehouse \$593,000
 - Movable shelving Homicide floor
 - Security system proximity readers
 - Automated elevator controls
 - Fire suppression system

2011 Capital Budget Request

PAB fire pump replacement \$85,000



D #2 Replace Emergency Generator \$100,000



Radio Shop HVAC Replacement \$200,000





- Tiburon RMS VMP Upgrade \$354,000
- Major Capital Equipment
 - Front-end Loader (for snow removal)\$70,000

PAB Rehab/Code Compliance Project





PAB Rehab/Code Compliance Project

- Building's HVAC infrastructure is obsolete and parts are hard to find/replace
 - Piping/plumbing system is failing
- PAB does not meet hi-rise code compliance
 - No fire sprinklers or code-compliant alarm system
 - Stairwells too close together; code compliance requires pressurization
 - Replacement of fire pump recommended
 - Code compliant generator required for life-safety systems
- Electrical systems need upgrading
- Hazardous materials (asbestos) exists in ceilings and walls
- Building "envelope" deteriorating thermal value is poor (wasted energy-steam and electricity), windows are inefficient

PAB Rehab/Code Compliance Project

Any renovations to PAB *require* asbestos abatement and fire code compliance for high-rises

- Abatement alone:
 - \$2.9M in 2012
 - \$3.1M in 2013
 - \$3.3M in 2014
- Window replacement approx. \$150,000/floor
- Fire sprinklers ONLY approx. \$92,000/floor
- Average per floor rehab cost is \$4.5M
 - Approximately \$240/sq foot

- PAB Renovation \$5.9 million
 - Mechanical/HVAC shaft replacement
 - net of \$2.3M in 2010 budget
 - And significant hi-rise upgrades to bring PAB up to code compliance
 - Architectural and engineering fees to begin the re-hab work starting at Level 5

PAB Rehab/Code Compliance Project Estimates

Year	Expenditure
2010	\$0.4M (approved)
2011	\$5.9M
2012	\$14.7M
2013	\$12.9M
2014	\$10.4M
2015	\$2.5M
TOTAL	\$46.7M

Digital Radio Update



OpenSky

- As of January 2010, all Milwaukee Police radio transmissions are being carried over the digital infrastructure
- All squads and officers are using digital radios
- MPD has negotiated with Harris the replacement of consoles and upgrades to the portable radios at no cost to the city
- Secured the services of Federal Engineering (FE)
- We are addressing coverage issues by investigating the following:
 - ♦ Possible interference with other wireless carriers
 - ♦ Additional transmitter / receiver sites
 - ♦ Securing additional frequencies from the FCC to allow for expansion

OpenSky

- As Officer safety is of paramount importance, officers have the ability to participate in the project by:
 - Submitting trouble reports
 - Participating in the Super User group
 - Reviewing our Sharepoint site for current updates regarding the project.
 - Attending training

Discussion



CITY OF MILWAUKEE POLICE ADMINISTRATION BUILDING

MASTERPLAN



eppstein uhen : architects

333 E. Chicago St.
Milwaukee, WI 53202
414 271 5350 : main
414 271 7794 : fax

222 W. Washington Ave.
Madison, WI 53703
608 442 5350 : main
608 442 6680 : fax 222 W. Washington Ave.

EUA Project Number: 309032-13

Date: April 1, 2010

CITY OF MILWAUKEE POLICE ADMINISTRATION BUILDING MASTERPLAN

APRIL 1, 2010

TABLE OF CONTENTS

- 1. Executive Summary
- 2. Facility Assessment and Design Recommendations

Architectural Facility Assessment and Design Recommendations Mechanical Systems Facility Assessment and Design Recommendations Electrical Systems Facility Assessment and Design Recommendations Structural Drawings of Proposed Exterior and Interior HVAC Shafts HVAC Drawings of Proposed HVAC Shafts

- 3. Building Space Program
- 4. Floor Plan Block Diagrams



City of Milwaukee- Police Administration Building Master Plan EXECUTIVE SUMMARY

Eppstein Uhen Architects(architecture and programming), IBC Engineering (mechanical, plumbing, fire protection), Powrtek Engineering (electrical), Pierce Engineering (structural) and Mortenson Construction (cost estimating) have prepared the Police Administration Building Master-plan. The purpose of the PAB Master Plan project is to provide the following:

- Evaluate the existing building (including but not limited to mechanical, plumbing, fire protection and electrical systems) and prepare design recommendations that address any facility deficiencies.
- Provide recommendations for life safety systems that would be required for new buildings like the PAB built in accordance with current codes.
- Prepare a space program identifying police department space requirements in the next five years.
- Prepare space plan diagrams identifying how police departments can be reorganized and relocated within the facility to address flexibility, efficiency and safety requirements.
- Prepare a cost estimate associated with the space plan diagrams and the design recommendations.

Some of the main elements of the PAB Master Plan are outlined below and are included in the Total Project Budget

INTERIOR FLOOR RENOVATIONS

The proposed floor alterations being proposed address the following long term needs of the Police Department Needs:

- Flexibility-
 - Redistribute departments based on current and future square footage needs based on staff expansions.
 - New office and furniture standards.
- Improved Efficiency and Effectiveness.
 - o Relocate departments that have a lot of interaction adjacent to one another.
 - Add state of the art Fusion Center for 24/7 real time monitoring of citywide security system
- Safety of Operation-
 - limit public access to levels 2 and 3.
 - o add additional public restrooms on 2nd floor to segregate public from police staff.
 - Add (1) one elevator for police use only (in existing HVAC shaft that is being abandoned).
- Health and Wellness:
 - Fitness Center.

INFRASTRUCTURE UPGRADES

Because of the extent of interior floor renovations being proposed, and the deficiencies in the existing mechanical, plumbing, fire protection and electrical systems the following infrastructure upgrades are being proposed

Mechanical:

- Replacement of the existing duct systems (main hot duct/cold duct risers and floor by floor distribution) from the penthouse level to the 2nd floor level with tow (2) new exterior HVAC shaft risers and a new VAV distribution system The complete duct system replacement is necessary to address the following:
 - Interfacing with existing risers is expensive, complex and disruptive to occupants of building which needs to remain operational during construction
 - Proposed VAV distribution system is less expensive to construct than a hot duct/cold duct system, operational costs are lower too.
 - Proposed VAV technology distribution only requires cold duct riser supply, current cold duct risers are near capacity.
 - Air quality issues: existing cold duct hot duct risers have internal duct insulation that is degrading causing loose fibers to become entrained in the air supply to the building.
 - New exterior duct risers will be sized to accommodate new internal design loads (computer technology loads) existing duct risers may not have capacity for these loads. This allows for more flexibility for the future plans for this building than if the existing riser systems were utilized
- Replacement of the existing piping systems (heating hot water, chilled water and steam) from the basement to the penthouse level (main risers and floor by floor distribution). The piping system replacement is necessary to prevent future leaks and failures which may result in damage to building systems and finishes and would be disruptive to the building occupants. The piping system upgrades are also required for the proposed floor by floor renovations.
- Finalize upgrades to the two (2) main penthouse air handling units that will complete the refurbishing work that started in 2004.
- Upgrade remaining existing and new controls to the digital control system that was
 installed in 2004. Replacement of the existing pneumatic controls system and
 connection to the Trane DDC system will improve mechanical systems operation and
 maintenance programs as well as improve overall energy efficiency of the existing
 and proposed new systems.

Plumbina:

- Replacement of the existing piping systems (domestic hot water, cold water, sanitary
 and storm sewer piping) from the basement to the penthouse level (main risers and
 floor by floor distribution). The piping system replacement is necessary to prevent
 future leaks and failures which may result in damage to building systems and
 finishes and would be disruptive to the building occupants. The piping system
 upgrades are also required for the proposed floor by floor renovations.
- Replacement of existing plumbing fixtures will be required for floor to floor renovations in order to meet current plumbing code standards.

Fire Protection:

- Replacement of the existing fire pump is recommended as the pump is original and the current size and location does not meet current NFPA standards.
- Extending full coverage sprinkler system to each floor level so building can be
 classified as a fully protected structure. This upgrade is recommended as main
 piping is already in place and a fully protected building would potentially reduce
 property losses while improving life safety provisions.

Electrical:

- Replace interiors and covers of original panelboards.
- Upgrade 480V feeder to 4th/5th floor 480V panels
- Replace 480-208/120V transformers with energy efficient types and create two floor 208V distribution from individual transformers to increase capacity for receptacles.
- Add additional 208/120V panels on each floor (minimum of one per electrical room).
- Segregate NEC 700 & 701 loads by creating a 2-hour rated room on the 8th floor with new transfer switches and emergency distribution (maintaining existing generator on 8th floor). Add additional emergency distribution panels on 5th floor.
- Replace motor control center on 8th floor.
- Upgrade lighting to energy efficient type with occupancy sensors where appropriate.
- Upgrade original building paging system to 70V from current 25V, including speakers and amplification.
- New fire pump feeders for relocated/upsized fire pump.

HIGH RISE UPGRADES

40 years ago the PAB was designed and built in accordance with the building codes enforced at that time. Current building codes have much more stringent life safety requirements than were in place 4 decades ago. If current code tendencies continue, future codes will only become more rigorous with regards to life safety standards. Because the city of Milwaukee will own and occupy this facility for the long term, as part of this remodeling, it is prudent to incorporate life safety systems that would be required for new buildings like the PAB built in accordance with current codes. This includes incorporating the following code requirements for High Rise Construction (the PAB is classified as a high rise because the uppermost occupied floor level is greater than 75 feet above the lowest level of fire department access):

- Fire Command Center
- Stairway Pressurization
- Elevator Pressurization
- Fire Alarm System with 2-way voice capabilities (expand system started on 6th floor)
- Fire Sprinkler
- Provide a separate generator for life safety systems

Some of these life safety features have already been partially incorporated into the building. For example the 6th floor remodeling that took place 2 years ago includes a fire sprinkler and fire alarm system.

HAZARDOUS MATERIALS

There are still extensive amounts of asbestos in the ceiling cavity on most of the floor levels in the PAB. Any significant remodeling work will require extensive asbestos abatement. The proposed construction work will be phased and contained so that the building can remain operational and the occupants can be safe, while asbestos abatement and construction work take place. Costs for Asbestos Abatement are included in the various phases of construction work

BUILDING ENVELOPE

The building enclosure was reviewed. Several areas of deterioration have been identified:

- The building envelope's thermal value is poor. Additional insulation to the interior face of the exterior concrete precast wall panels.
- The existing windows are inefficient, they are not thermally broken, glass is single pane, and perimeter gaskets have failed at many locations. New thermally broken windows with insulating glass are being proposed.

The proposed improvements to the building envelope can take place on a floor by floor basis during the various phases of remodeling. The building envelope costs are included in the interior floor renovations

End



City of Milwaukee- Police Administration Building Architectural Facility Assessment and Design Recommendations

INTRODUCTION

The purpose of this report, prepared by Eppstein Uhen Architects Inc, IBC Engineering Services Inc, Powrtek Engineering Inc. and Pierce Engineers, is to assess existing building conditions at the Police Administration Building Located at 749 W. State Street in Milwaukee WI and to provide recommendations for upgrades to the following areas-

Building Enclosure

Architectural Systems associated with alteration work

HVAC Systems

Plumbing Systems

Fire Protection Systems

Electrical Systems

Because of the presence of asbestos throughout the facility and the need for the building to be operational during construction the alteration work proposed for the basement, sub basement, mezzanine, 2nd thru 8th floors will need to be phased so the asbestos abatement work can be contained within the area of work without affecting the operations of areas not being remodeled. Currently the plan is for the construction alteration work to take place one floor at a time. As a result one major aspect of the proposed upgrades includes the addition of two (2) new HVAC supply shafts on either the interior or exterior of the building. It is our understanding that the alteration work that took place in 2005 on the 6th floor and the 8th floor mechanical level included abatement of all the asbestos on those levels.

BUILDING ENCLOSURE

Existing Conditions-

The Building Enclosure consists of Architectural Precast Concrete wall panels with an exposed aggregate finish. The original building drawings indicate the presence of 1-inch thick rigid foam insulation (approximate r-value of 5) on the interior side of the precast. A vapor retarder is not indicated on the drawings. During our site visits to the Comp Stat room alteration we were able to confirm that 1-inch rigid insulation has been installed and there is no vapor retarder. The structural columns at the building perimeter are on the outboard side of the insulation. The floor and roof girders that frame into these members act as a thermal bridge. This condition along with the lack of a vapor retarder may be contributing to the condensation issues that have been reported in this building. The precast concrete wall panels have punched window openings that consist of non-thermally broken operable windows with single pane glazing. The gasketed seals at a majority of the windows have failed and daylight is visible between the fixed and operable portions of the windows, which causes to air infiltration and condensation.

Recommendations-

Because of the extent of alteration work that will take place on the floor levels that are to be remodeled and because of the energy savings potential we recommend the addition of thermal insulation to the exterior wall. Two options are proposed-

Thermal Insulation Option 1- Remove existing drywall furring on inside surface of the exterior precast wall; add 3" of rigid insulation (R=5 per inch) and polyethelene vapor retarder with taped joints over the existing insulation on the inside face of the precast wall panels; provide $2\frac{1}{2}$ " metal studs and drywall from floor to 4" above the ceilings; provide a spray fire



resistive thermal barrier (Monokote as manufactured by WR Grace or an approved equal) at areas where insulation is exposed to the ceiling plenum.

Thermal Insulation Option 2- Remove existing drywall furring and insulation on inside the inside surface of the exterior precast wall panels; spray apply 4" thick polyurethane foam insulation (R=7 per inch) on the inside face of the precast wall panels, this material acts as a vapor retarder as well (Versifoam Class 1 formula as manufactured by RHH Foam Systems or equal); provide 2 ½" metal studs and drywall from floor to 4" above ceilings; provide a spray fire resistive thermal barrier (Monokote as manufactured by WR Grace or an approved equal) at areas where insulation is exposed to the ceiling plenum.

Because of the poor thermal quality of the existing windows and the potential energy savings potential we recommend one of the two options below for upgrading the windows.

Window Option 1- Replace the existing window units with new operable thermally broken aluminum frames as follows

Size: 33-nches wide by 58-inches tall; Finish: Color Anodic champagne bronze

Glass: 1" thick clear insulating with a low e coating (Solarban 60 as manufactured by

PPG or approved equal)

Operation: window units shall pivot on either the vertical or horizontal axis similar to

the existing units.

Perimeter Sealant: On the exterior side of the windows provide a perimeter sealant joint between the window frame and precast wall panel.

Window Option 2- Replace the existing gasket with a new custom gasket at the perimeter of the operable windows; Remove the existing single pane glass lite with a new 1" thick clear insulating glass with a low-e coating (Solarban 60 as manufactured by PPG or an approved equal).

NEW HVAC SUPPLY SHAFT ENCLOSURE OPTIONS

Because of the construction phasing and asbestos abatement associated with the alteration work new HVAC shafts are being proposed as part of the alteration work. Two options are being recommended. One option consists of two interior shafts that extend from the 8th floor to the 2nd floor. This will require new floor openings to be cut into the existing floor assemblies and the installation of fire resistant shaft wall construction. The new shafts will require alteration work to the building circulation and access to rooms. The second option consists of two shafts that will be located on the exterior of the building enclosure on the east and west elevations, Exterior precast wall panels will need to be removed at these locations, supplemental steel framing for the support of the ductwork and the shaft enclosure will be required as well. The interior of the building will be separated from these shafts with fire resistive construction. The exterior of the shafts will be clad in a lightweight metal panel system. The diagrammatic plans and sections have supplemental information regarding these shafts.

CODE ITEMS-

For compliance with the Current State of Wisconsin Commercial Building Code this building will need numerous upgrades. The building is classified as a high rise per the current codes. This will require addition of a fire command center. The proposed location needs to be approved by the fire department



and will probably occur at the basement or first floor. Per section 707.14.1 this building will require enclosed elevator lobbies on each level but the street floor (basement level). Enclosed elevator lobbies are not required where the elevator hoist-way is pressurized in accordance with section 707.14.2. The construction budgeting for this project will include the cost for pressurized elevator shafts. HVAC, Fire Protection, Electrical and Fire Alarm upgrades required in order to comply with the high rise code requirements are described in those respective sections of this report.

Egress widths for exit components like stairways serving the floor levels is compliant with current codes. Separation of exit components (stair doors) is compliant with current codes for a sprinklered building (exits are separated by more than the required 1/3 of the diagonal distance of the space they are serving) but not a non sprinklered building (exits are separated by less than the required 1/2 the diagonal distance of the space they are serving) . An analysis of egress from the cell blocks is not included in this report

The elevator machine room serving Elevator 1 needs to be separated from the mechanical equipment room on the 8th floor with 2 hour fire resistive construction in accordance with Section 3006.

Based on the magnitude of the proposed alterations, in order to comply with the Wisconsin Commercial Building Code numerous upgrades will be required to make the building accessible for people with disabilities. This will include alterations to the existing toilet rooms to incorporate at least 1 accessible toilet and stall, urinal and lavatory. Modifications to the entrances into the toilet rooms will be required, in most instances approaches to door openings and clearance requirements at toilet room doors are not adequate.

Doors with hardware that consists of knobs are not accessible. At areas where alteration work takes place code compliant door hardware will be required and doors along the accessible path leading to the area of work will be required to have code compliant hardware. At doors that lock or latch this will require lever type hardware in lieu of knobs.

ARCHITECTURAL ALTERATIONS-

The following is a description of the products, systems and finishes that are to be incorporated into the interior alteration work for the purposes of developing a project budget.

Sprayed Fire Resistive Materials On levels 2, 3, 4, 5 and 7 all the existing spray fire resistive materials that contain asbestos are to be abated (this includes the existing cell block area on the 5th floor) and the new spray fire resistive material shall be in compliance with the following fire proofing material

- A. Concealed Cementitious Sprayed Fire Resistive Materials. Acceptable products:
 - 1. Isolatek International, CAFCO Blazeshield II.
 - 2. Grace, WR and Co. Construction Products Division; Monokote Type MK-6/HY.
- B. Exposed Cementitious Sprayed Fire Resistive materials acceptable products:
 - Isolatek International CAFCO Blazeshield HP
 - 2. Grace, WR and Co. Construction Products division; Monokote Type Z106.
- C. Provide fire resistive coatings as follows:
 - 1. At floor and beam assemblies, 2 hour fire resistive assemblies per UL D925
 - 2. At roof and beam assemblies, 1 hour fire resistive assemblies per UL P732
 - 3. At columns, 2 hour fire resistive assemblies per UL X772.
- D. Schedule of typical locations and type:
 - Provide low density type spray fire resistive material at the following locations - Mechanical and Elevator Shafts, Return air plenums, and other concealed areas



- 2. Provide medium density type spray fire resistive material at the following locations Electrical Rooms, Data Closets, Mechanical Rooms, Elevator Machine Rooms.
- At locations not listed above provide, low density type spray fire resistive material.

Interior Partitions

- A. Typical interior partitions typical throughout unless indicated otherwise:
 - 1. 3 5/8" steel studs at 24 inches on center with acoustical batt insulation and 5/8" gypsum drywall on both sides, extend entire assembly from floor to underside of structural frame. At chase walls provide 2 rows of 2 ½" steel stud framing at 24" on center with one layer of 5/8" gypsum drywall on one side of each row of studs.
- B. Typical interior partitions at cell blocks and prisoner handling areas:
 - 1. 6" CMU from floor to underside of structure.

Interior Doors, Frames and Hardware

- A. Doors and Frames
 - Typical all floors unless indicated otherwise in subparagraph 2 and 3: Doors: 3-foot x 7-foot door leaf, solid core, AWI custom grade construction, plain sliced Oak veneer. Finish shall be factory applied stain and varnish.

Frames: Hollow metal. Finish shall be semi gloss oil based paint.

- 2. Mechanical Penthouse, Sub-Basement: flush steel door. Frame shall be hollow metal. Finish shall be semi gloss oil based paint.
- 3. New door openings in elevator lobby at levels 2 through 7:

Doors: 3'-0" wide x 7'-2" tall with an 1'-6" tall transom above. Solid core, AWI custom grade construction, plain sliced Oak veneer. Finish shall be factory applied stain and varnish. Frames: solid oak frames color and profile to match existing.

- B. Hardware
 - 1. At all new and existing doors in areas being remodeled with latching features shall be provided with new mortise locksets with lever handles.
 - 2. 5 doors on each level being altered shall have card access. Hardware at these locations shall include electric strikes.

Interior Specialties

- A. Toilet partitions shall be fiberglass panels, doors, and pilasters, floor mounted overhead braced.
- B. Toilet accessories:
 - 1. Stainless Steel soap, paper towel, toilet tissue dispensers , grab bars, mirrors, coat hooks and waste receptacles.

Wall Finishes- new wall finishes shall be provided at all new and existing partitions except where existing wall surfaces are stone, tile wood or a similar natural material.

A. Paint- One coat primer and two coats acrylic enamel (low VOC) eggshell paint at all wall partitions and drywall ceilings

Flooring- new flooring finishes shall be provided as follows:

A. Carpet Tile: material allowance of \$28/ square yard, typical at private offices and conference rooms.



- B. Vinyl Composition Tile: material allowance of \$2/square foot, typical at break rooms, work areas, storage rooms and corridors where there is no existing terrazzo flooring.
- C. Rubber Flooring: Ecosurfaces, Econights for sport, 8mm thick rolls, sealed; typical in Fitness Room.
- D. Porcelain Ceramic Tile: material allowance \$ 6/ sf typical at toilet rooms floors, toilet room wet walls and locker room floors.
- E. Rubber Base: typical at all areas scheduled to receive carpet, vinyl composition tile and rubber flooring.

Ceilings- new ceilings shall be provided in all areas to be altered except at electrical and telephone rooms, equipment rooms, mechanical rooms. Provide as follows:

- A. 2 x 2 ceiling tile with reveal edge and 15/16" grid. NRC= 0.95, CAC = 25 (Armstrong World Industries Optima or approved equal) all rooms with new ceilings except toilet rooms and locker rooms
- B. ½" thick gypsum ceiling over 2 x 2 ceiling grid or steel framed support (contractor option) at toilet rooms and locker rooms.

Elevator- a new elevator shall be provided in the existing return shaft adjacent to the service elevator E2. The elevator shall be intended for use by the police staff only and shall have a landing at the sub-basement, mezzanine, basement level, 1st floor thru 7th floor and shall include the following –

- A. (1) Machine Room Less Elevator with 10- stops; speed 400 fpm; 3,500 lb capacity elevator with 5'-5" wide by 6'-8" deep platform and the following:
 - 1. Interior cab clear height- 9'-7
 - 2. Hoistway entrances

Stainless steel doors and frames Size 3'-6" wide by 8'-0" tall

- 3. Inteior Cab Allowance: \$5.000.
- 4. Card Access shall be required at each floor landing.
- 5. Manufacturers: Kone, Shindler, Otis Thyssen Krup.

Fire extinguishers and Cabinets

A. Semi-recessed aluminum cabinet with full glass.

Fixed Casework

- A. Base and wall Cabinets shall be , flush overlay construction in compliance with AWI custom standards, consisting of plastic laminate finishes. Provide base and wall cabinets along one wall of each break-room
- B. Solid surface countertops shall be provided in all toilet rooms.

End

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City of Milwaukee

Police Administration Building

Mechanical Systems Assessment and Recommendations

HVAC Plumbing Fire Protection

April 1, 2010

IBC Engineering Project Number: 2010005.00



Intent:

The intent of this study is to document the existing building mechanical systems associated with floors two through eight, their condition and deficiencies, and provide possible solutions to incorporate for intended space renovations. Information herein contained is based on existing documentation, a mechanical assessment completed by Arnold, and O'Sheridan Engineering, Inc. in 2001, and limited site observations due to existence of asbestos within ceiling, shafts, and insulation in areas of the building.

Relevant Building Codes:

International Building Code
State of Wisconsin Commercial Building Code
National Fire Protection Association

Existing Mechanical (HVAC) Conditions:

The existing Police Administration Building (PAB) consists of an eight-story building with a basement and sub-basement. The sub-basement is slab-on-grade construction consisting of maintenance area/equipment rooms to the north with parking on the south. The basement consists of offices to the north and parking to the south. The first floor consists of Municipal Court and offices on separate systems. These systems will be included in this assessment for reference only. The second through seventh floors consist of offices, holding cells, data center and common elements such as lobbies, corridors, and restrooms. The eighth floor is the mechanical penthouse.

Steam:

The existing high pressure steam is provided by WE Energies and the service main is located in the basement of the parking structure. The main is split into two branches, one with 5psig to the parking structure and the other 15psig to the Administration Building. Steam is routed from the basement to the penthouse to serve the hot water converter for the mechanical hot water system. The owner has indicated that the main WE Energies service line and various components of the main pressure reducing station have been replaced since 2001 although an exact year is unknown. The condensate return pump had been replaced in 2004 as part of a larger HVAC systems upgrades project. Steam condensate had been used to preheat domestic hot water with 100% of condensate discharged to drain. The shell and tube type heat exchanger is in place, but has been removed from use. In 2002, a new domestic steam to hot water heat exchanger was installed to serve the building (see Plumbing section).

A recent audit on steam traps had been done and 33% of the traps had been replaced; however, the remaining traps are a minimum of 10 years of age.

Condition of Steam Distribution Piping: The existing distribution is original to the building; and while serviceable, it is past the life expectancy that would be anticipated. Asbestos is present in some of the insulation that is original to the installation.



Hydronic:

The building hydronic heating system is provided by (1) steam to hot water converter located in the eighth floor mechanical penthouse. The converter and two hot water circulating pumps, 7.5hp at 535gpm each, are sized to provide 210°F water. The two pumps serving the system are fully redundant. The heat exchanger is a shell-and-tube design with rated capacity of 9,573mbh. A condensate heat exchanger had been installed in 2004. This heat exchanger receives steam condensate from the main steam to hot water converter and heats the glycol heat reclaim system that serves the heat reclaim coils (outside air tempering) on AHU-1 and AHU-2. All remaining condensate at the penthouse level is discharged to drain. All equipment is located within the mechanical penthouse. The first floor renovation in 1982 added a dedicated steam to hot water converter that serves the first floor HVAC system (AHU coils, VAVs, fin tube radiators, cabinet heaters, etc.).

Condition of the converter: The converter seemed in acceptable operating condition but is original to the building.

Condition of the pumps: The pumps had been replaced in 2004 and have VFD's installed.

Condition of the condensate to hot water heat exchanger: The heat exchanger had been installed in 2004 and is in good condition.

Deficiencies: Concerns had been discussed during field interviews with staff regarding capacity of the heat exchanger should additional floors be changed to VAV with reheat.

The hydronic heating system is distributed throughout the building via vertical risers to Variable Air Volume (VAV) boxes, finned tube radiators, convectors, and Air Handling Units (AHU's). Distribution is typically routed below the floor to equipment that it serves. Most distribution is original to the building with the exception of the VAV piping that had been installed with the renovations to the basement and sixth floors in 2004 and 2006. As noted earlier, the first floor hydronic piping was installed new in 1982 and is assumed to be in satisfactory condition although it is reaching its typical life expectancy.

The building hydronic cooling system is provided by two 320 ton Trane chillers with variable frequency drives (VFDs) and one cooling tower. Condenser water is circulated by one 25hp primary condenser pump with a capacity of 1,500gpm. Two secondary 15hp pumps circulate, at 750gpm each, condenser water to the chillers. Chilled water is then circulated by two 25hp 1,000gpm pump. All equipment is located at the penthouse level.

Condition of cooling tower: The cooling tower is currently being replaced (winter of 2009/2010) and start up is about to commence.

Condition of chillers: Each of the chillers had been installed six years ago and are in good condition.

Condition of pumps: The pumps had been installed with the chillers and are in good condition.

Deficiencies:

Infrequent testing of system fluids has been reported and is an issue. An imbalance within fluids can lead to corrosion and degradation of the system.

With the exception of the immediate piping to equipment replaced in 2004, all remaining distribution piping is original to the building and is past its anticipated life expectancy.



Air Handling Units:

The existing equipment for air distribution is located throughout the building. Four major air-side systems exist as associated by floors and areas serviced. The first system, comprised of AHU-1 and AHU-2, serve floors two through seven. The second system, comprised of AC-1 and AC-2, serve the first floor VAV system. The third system serves the basement spaces and is comprised of AHU-3 and AHU-4. The final major airside system is comprised of AHU-5 which serves the sub-basement and mezzanine levels. Additional systems include AHU-6 for the electrical switchgear room; dedicated space cooling equipment for data centers located on the third and sixth floors, and garage supply and exhaust fans.

The first system described, AHU-1 and AHU-2, is within the specific scope of this study to ascertain the requirements of new floor space assignments on floors two through seven. This system serves the second through seventh floors and is comprised of two built-up air handling units, AHU-1 and AHU-2. AHU-1 serves the west and the majority of the south side of the building with an original design capacity of 79,880cfm and AHU-2 serves the east and majority of the north side of the building with an original design capacity of 79,880cfm. Each unit consists of one supply fan (constant speed), one exhaust fan (constant speed), one hot water coil bank, one chilled water coil bank, one glycol pre-heat coil, steam humidifier, panel filtration (MERV-8), dampers and louvers for outdoor air and exhaust air and air silencers. Variable frequency drives (VFDs) were also added to each unit in 2004.

AHU-1 and AHU-2 are dual duct systems in which one duct supplies heated air while the other supplies cooled air. AHU-1 supply air distribution utilizes existing Shaft #1, located west of Stairwell #2 with the air distribution troughs. Pneumatically controlled air valve boxes are connected to the distribution system and control by space thermostat demand. AHU-2 distributes air in the same manner, but uses existing Shaft #3, east of Stairwell #1. Both systems use the building center Shaft #2, east of Stairwell #2, for return air duct routing.

These systems originally served the first floor as well; however, a renovation in 1982 removed the first floor from this system and replaced the original roll filters with bag filters. Later, the bag filters were replaced with panel filters due to the expense of the bag filters. Another renovation took place in 2006/2007 on the sixth floor that removed the hot deck distribution from serving the sixth floor to convert the space to a VAV system utilizing the existing cold deck.

Condition of AHU-1 and -2

Motors: AHU-1 and AHU-2 motors were rebuilt in 2004. AHU-1 has a supply fan equal to 150hp and a return fan equal to 50hp where AHU-2 has a supply fan equal to 125hp and a return fan equal to 40hp. All of these motors are 480V, 3-Phase.

Filters: MEV-8 panel filters upstream of fans and coils.

Humidifiers: 600 lbs/hr steam grid provided per unit and installed new in 2004 to replace the original equipment.

Dampers: The outside air, return air, and exhaust air automatic dampers were replaced in 2004 with all others original to the building.

Coils: The hot deck and cold deck coils are original and operational. The preheat coils were upgraded in 2004.

Controls: Controls were replaced in 2004 with VFD's integrated into the building management system.



Ductwork: Ductwork interior lining is deteriorating in both the supply and return ducts reducing indoor air quality and reducing filter longevity.

Deficiencies:

Heating and cooling coils are original to the building and are past their anticipated life expectancy.

An issue of outdoor air contamination by Plaza generator exhaust exists. Upblast fans were not used to force generator exhaust above the building as the Plaza generator building is single story at grade. Outside air intake generates a low pressure area that entrains generator exhaust into the air-handling units.

Mixing boxes associated with the dual duct system are of an age where replacement parts have become difficult to obtain. Third floor occupants have described heating deficiencies in the winter and have reported frost on windows.

As the remaining air handling units do not serve the area within the scope of the renovation, full review of them will not be included; however, a brief summary of the remaining systems is as follows.

The first floor is served by a VAV system that was put in place in 1982 when the floor was removed from AHU-1 and -2. This system is comprised of two packaged air handling units which serve the Municipal Court areas, court clerk areas, case file area, and waiting area. Both packaged units have hot and chilled water coils and have independent outside air intakes. The outdoor air for the west unit is ducted adjacent to the loading dock and has been reported to be susceptible to vehicle exhaust infiltration. The primary controls for the first floor air-handling units are pneumatic and stand alone.

The basement level is served by AHU-3 and AHU-4. AHU-3 is a variable volume system with hot and chilled water coils serving multiple VAV zones. AHU-4 is a constant volume system which has heating and cooling coils for a single zone serving the maintenance shop. Outside air is ducted to each unit from an areaway on the north side of the building. Both of these units were replaced in 2004 and are connected to the existing ductwork.

The sub-basement and mezzanine is served from one single zone, heating only, modular air handling unit tagged AHU-5 which was replaced in 2004. Supply and return air is ducted from/to the unit. The electrical sub-station room, located within the sub-basement, is served by AHU-6, which is 100% outside air without heating or cooling coils. AHU-6 has had controls updated with VFD and tied into the building management system. Additionally, the Owner is currently investigating the addition of heating coils to AHU-6.

Installed on the first, third, and sixth floors are dedicated packaged data room air conditioning units with remote condensers installed on the penthouse roof for the sixth floor units and the second floor for the remaining units. These units are in good condition with no major complaints from the Owner. A ductless split unit serving the sixth floor electrical room is not operational as the installation was not yet complete. It is IBC's understanding that completion will resume this spring.

The mezzanine and sub-basement areas are served by AHU-5, a heating only ventilation unit. This unit was replaced in 2004 and is in good condition.

The garage is served by (2) 3-stage cycled supply and exhaust fans controlled by Vulcain CO2 sensors. The supply fan systems use steam coils that temper the outside air in winter. These units and coils were overhauled and replaced in 2004. The garage ventilation system maintains minimal level of required outdoor air ventilation with additional fans available to control



CO2 concentration levels. Numerous steam unit heaters provide additional space heating for the garage areas. It was noted that the garage area is kept at a relatively warm 68 deg F during the winter months.

Multiple exhaust systems are in place and dedicated to various requirements, including but not limited to, bathrooms, janitor closets, laboratory space, bullpens, and holding cells. The fans serving floors two through seven are located in the penthouse and exhaust through the north face of the building. Heat recovery coils had been installed in the fan discharge ducts; however, with the replacement of all exhaust fans in 2004, the heat recovery coils had been removed.

Additional exhaust fans are in the lower levels, specifically in the shop, lower level bathrooms/lockers, fueling island and garage. An issue exists for the locker rooms as make up air is transferred from the adjacent garage space into the locker rooms as make-up air to offset the exhaust.

Deficiencies:

It was noted during walk through that some janitor closets and electrical rooms do not have proper ventilation.

It was also noted that the existing 8th floor penthouse electrical room located just east of the electrical room has many ducts and mechanical piping that run over electrical panels and transformers which is a current code violation.

The garage levels are kept fairly warm (about 68 deg F) during winter months. Typically underground garages are recommended to be kept around 45-55 deg F.

As noted above air is allowed to be transferred from the garage into the locker rooms located just off of the upper garage level.

Miscellaneous Equipment

Separate ventilation exists for the elevator equipment room above the penthouse level. Additional exhaust at the penthouse level also serves the purpose of a refrigerant evacuation system.

Throughout the building are radiant hot water and steam cabinet unit heaters that are stand-alone with electric thermostats.

Existing equipment from various renovation projects remain. Examples of this include the remote condenser on the second floor roof, an old Carrier chiller system in the penthouse.

A vertical A/C unit is located in the shop; however, the cooling is no longer working and it is used as a recirculation fan.

The gas island station office is served by a local PTAC unit.

There are packaged rooftop units that serve the first floor lobby to the Municipal Court.

Controls:

On the major mechanical equipment the original pneumatic controls have been removed and replaced with Trane's Tracer Summit building management system in 2004. VFD's have been installed on AHU-1, -2, -3, -4, and -6, and selected exhaust fans and pumps. The controls are tied into a district network monitoring system. The controls have been extended to the sixth floor VAV system installed in 2005 and 2007; however, much of the remaining controls are still the original pneumatic or electric type and are stand alone. The pneumatic controls are served by a dual compressor unit located in the penthouse.



Discussions of the existing control system with Trane have determined that the existing control system is being underutilized.

Mechanical (HVAC) Recommendations:

The following are preliminary recommendations and basis of design of mechanical system upgrades for the proposed master space planning and systems upgrades for the City of Milwaukee Police Administration Building:

Add DDC controls to elevator equipment rooms AHU, unit heater and exhaust fan. Verify heating cooling and economizer mode sequences and revise if necessary. Clean/Rebalance systems.

The security elevator does not have an equipment room enclosure at the 8th floor level as required by code. Exhaust and supply air system would need to be provided for the proposed new room. New systems shall be connected to the DDC control system.

The electrical portion of the facility assessment recommends a new electrical room be located at the 8th floor level. Exhaust and supply air system would need to be provided for the proposed new room. New systems shall be connected to the DDC control system.

Refurbish (2) 80,000cfm AHU's in penthouse including new cooling coils (remove hot deck) and controls (increase DDC capabilities). VFD, new motors, steam humidifiers, dampers and heat reclaim/preheat coils were installed in 2004. Add smoke dampers and detectors for unit isolation/shutdown as required by code. Verify heating cooling and economizer mode sequences and revise if necessary. Clean/Rebalance units.

Add DDC controls to exhaust fans. Verify sequences and revise if necessary. Clean/Rebalance systems.

Replace steam to hot water converter for heating hot water (along with all associated piping, valves, etc) with (2) new converters that each provide about 60% total system capacity. Add DDC controls. Verify sequences and revise if necessary.

Replace all remaining HVAC piping in penthouse that was not replaced with 2004 HVAC upgrades. Balance all HVAC piping systems.

Extend new external supply air shafts/ducts at east and west ends of building to accommodate 2-7th floor remodels and conversions to VAV systems for these floors.

Replace existing HVAC piping (steam, hot water and chilled water) risers from basement to penthouse. Size hot water heating risers for proposed new VAV systems at floors 2-7.

Floors 2-7 with exception of 5th and 6th floors: Completely demolish all existing ductwork and piping distribution at each floor level and replace with new distribution. Supply air systems shall be new VAV (connected to new SA risers) with hot water reheat coils. A fully ducted return system should be extended from all spaces on each floor and temporarily connected to the existing return air shafts in the center of the building (shaft #2). Future connections from the main return ducts at each floor level should be extended to just outside the east and west internal shafts (shafts 1 and 3) for connection to new return air ducts after existing supply air ducts have been removed from these shafts. Exhaust air duct distribution (i.e. Toilet Rooms, Janitor



Closets, Electrical Rooms, etc.) shall be new at each floor level and reconnected to existing exhaust air ducts located in shafts 2 and 3. New hot water heating piping extended from new pipe risers will serve new VAV hot water reheat coils, perimeter hot water baseboard radiation and replacement of existing convectors and cabinet heaters throughout. Extend new DDC controls to VAVs, baseboard radiation and convectors/cabinet heaters.

Fifth floor level: Same as above with the exception of the holding cell areas located at the south and west sides. These areas will be left fairly untouched. Reconnection to existing supply and exhaust ductwork at various accessible areas will be necessary. Existing ductwork in these areas should be cleaned and rebalanced as much as possible.

Sixth floor level: This floor level was renovated from about 2006-2008. Currently meets the description listed for floors 2-7 above. However, supply air ductwork will need to be tied into the new external east/west risers and also the return ducts will need to be connected to the new return risers to be located in shafts 1 and 3. It would also be recommended that the sixth floor re-work is conducted after the renovation of the 7th floor. This would allow the owner the option of removing existing ductwork that had fed some of the 7th floor air distribution rather than leaving this ductwork abandoned above the ceiling. Disruptions for this work could be limited by vacating room by room for a day or two and removing the ductwork located in the ceiling above that particular room. The sixth floor also has holding cells on the south area of the floor so the recommendations listed above for the fifth floor would also apply to this area.

Replace existing return air duct risers located in shaft 2 with new risers located in shafts 1 and 3. This works would have to be completed after all floor renovations have been finished and the existing supply air ducts in shafts 1 and 3 would be removed. Connections to return ducts at each floor level would need to occur. The existing return air duct risers would then be removed after completion of the new return air risers and connections at each floor level (2nd-7th).

Install multiple injection stairwell pressurization system for the two main stair risers. Add roof mounted fans ducted down shafts adjacent to the stairwells with supply air outlets located at each floor level. The system would be controlled via static pressure sensors and would be connected to the DDC and fire alarm control systems.

Elevator hoistway pressurization. Elevator hoistway pressurization systems (one per shaft) would be similar to the stairwell pressurization systems and would eliminate the need for constructing rated elevator lobbies at each floor level. These systems would include roof mounted fans and motorized dampers that would be opened upon activation from the fire alarm system. Fans and airflow would be modulated based on various pressurization sensors and controls. Monitoring by the DDC control system would be recommended.

Generator Building located to the south of the main municipal court lobby: Look at conducting a plume modeling study for the generator exhaust. When these generators run the exhaust is so prevalent that it rises up eight stories and is entrained into the outside air intakes for AHU-1 and 2 which are also located on the south elevation of the building. The fumes can be so prevalent that it forces the shutdown of down main air handlers. One possible solution would be to install high velocity upblast fans such as those made by Strobic Air to help dilute and force the exhaust fumes higher into the air.

Provide new ductwork for the maintenance shop welding hood and duct to the outside to meet current code. Existing welding hood has new exhaust fan but it is not ducted to the outside due to previous renovations. Possibly providing a new hood or booth enclosure of the area would also be recommended.



Locker Rooms and Offices off of Garage: Provide ducted supply air system from new air handling units to serve these spaces. Provide outside air ducted from exterior, not from the garage proper. Units shall have heating and cooling coils. Extend hot water or steam piping and chilled water piping to the units. Provide new exhaust fans and ductwork as required by code.

Replace steam supply and steam condensate piping in the basement after the steam pressure reducing station located off the garage (along with steam system risers and piping at penthouse level as noted above). It is also recommended the remainder of the steam traps that were not replaced with the recent trap survey be replaced.

Life Safety upgrade: Add master control switch for ventilating systems as required by city code. Add other smoke control systems (dampers) as floors are renovated. This appears to have been completed for the basement level with the 2004 HVAC upgrades. It is assumed all other floors (2-7) will require certain code required smoke control dampers.

Maintain garage levels heating setpoints between 45-55 deg F.

Remove all abandoned or non-functioning equipment as noted above (i.e. heat exchanger near steam service entrance, remote condenser on 2nd floor roof, Carrier chiller system in 8th floor penthouse, etc.).

Mechanical (HVAC) Construction Phases:

The following is a preliminary sequencing of mechanical system upgrades for the proposed master space planning and systems upgrades for the City of Milwaukee Police Administration Building:

Step 1: Construct new supply air risers at east and west exterior shafts (new) starting from the penthouse and working down to the 2nd floor level. A jump back up to 7th floor would be proposed as the final complete floor renovation. The sixth floor tie-ins could be done any time after the supply ducts have been extended past the sixth floor level. Dampered and capped duct "stubs" would be recommended at each floor level during this stage to accommodate ease of connection as floors are renovated. Connections at the cold deck of each air handler would also need to installed and balanced until all floor are renovated and existing cold deck ductwork could be removed.

Step 2: Refurbish (2) 80,000cfm AHU's in penthouse including new cooling coils and controls (increase DDC capabilities). VFD, new motors, steam humidifiers, dampers and heat reclaim/preheat coils were installed in 2004. Add smoke dampers and detectors for unit isolation/shutdown as required by code. Verify heating cooling and economizer mode sequences and revise if necessary. Clean/Rebalance units. Note – removal of the hot deck heating coil will need to take place after all floors have been renovated and converted to new VAV system.

Step 3: Install multiple injection stairwell pressurization system for the two main stair risers. Add roof mounted fans ducted down shafts adjacent to the stairwells with supply air outlets located at each floor level. The system would be controlled via static pressure sensors and would be connected to the DDC and fire alarm control systems. While this item could be installed at almost any time it would be our recommendation that the work is completed before major floor renovations.

Step 4: Replace existing HVAC piping (steam, hot water and chilled water) risers from basement to penthouse. Size heating hot water risers for proposed new VAV and baseboard radiation systems at floors 2-7. The driving factor on this sequence is having the new heating hot water piping in place before the floor renovations begin in order to accommodate new VAV and



baseboard radiation systems as floors are renovated. Provide valves and capped connections for hot water piping at each floor level for future connection to new systems as floors are renovated. Replacement of remaining steam traps could be completed at this time. The heating system-related work noted above would require summer installation time frame (i.e. new steam traps and heat exchangers) unless new piping were installed parallel to existing piping and then tied to new or existing equipment using a sequenced change over procedure.

Step 5: Starting at 5th floor level and working down to the 2nd floor (and then jump back up to 7th floor) demolish all existing ductwork at the individual floor levels. Remove existing perimeter mixing boxes and cap the connections to the trough systems at the floor with proper fire rated method. Cap existing riser branch take offs at each floor during construction. Existing duct risers would remain in place until all renovations are complete. *Special note – in order to demolish all existing ductwork at each floor level the sequence must start at the 5th floor and work down as existing supply ducts serve affected floor as well as floor above.

Step 6: Install new ductwork at each floor level in same order noted in step above. Supply air ductwork would tie into new exterior shafts at east and west ends of building. Return ductwork would need to be temporarily tied back into the existing return shafts. Future return "stubs" would be also located at the east and west existing interior shafts (that currently house supply air risers) for connection to proposed new return air risers at later date (this would also need to occur on the 6th floor). Exhaust ducts would be reconnected to existing risers.

Step 7: Replace existing return air duct risers located in shaft 2 with new risers located in shafts 1 and 3. This work would have to be completed after all floor renovations have been finished and the existing supply air ducts in shafts 1 and 3 would be removed. Connections to return ducts at each floor level and to the existing return fan sections in the penthouse would need to occur. The existing return air duct risers would then be removed after completion of the new return air risers and connections at each floor level (2nd-7th).

The following recommendations could be sequenced at almost any time:

Add DDC controls to elevator equipment rooms AHU, unit heater and exhaust fan. Verify heating cooling and economizer mode sequences and revise if necessary. Clean/Rebalance systems.

Add DDC controls to exhaust fans. Verify sequences and revise if necessary. Clean/Rebalance systems.

Elevator hoistway pressurization. Elevator hoistway pressurization systems (one per shaft) would be similar to the stairwell pressurization systems and would eliminate the need for constructing rated elevator lobbies at each floor level. These systems would include roof mounted fans and motorized dampers that would be opened upon activation from the fire alarm system. Fans and airflow would be modulated based on various pressurization sensors and controls. Monitoring by the DDC control system would be recommended.

Generator Building located to the south of the main municipal court lobby: Look at conducting a plume modeling study for the generator exhaust. When these generators run the exhaust is so prevalent that it rises up eight stories and is entrained into the outside air intakes for AHU-1 and 2 which are also located on the south elevation of the building. The fumes can be so prevalent that it forces the shutdown of down main air handlers. One possible solution would be to install high velocity upblast fans to help dilute and force the exhaust fumes higher into the air.



Provide new ductwork for the maintenance shop welding hood and duct to the outside to meet current code. Existing welding hood has new exhaust fan but it is not ducted to the outside due to previous renovations. Possibly providing a new hood or booth enclosure of the area would also be recommended.

Locker Rooms and Offices off of Garage: Provide ducted supply air system from new air handling units to serve these spaces. Provide outside air ducted from exterior, not from the garage proper. Units shall have heating and cooling coils. Extend hot water or steam piping and chilled water piping to the units. Provide new exhaust fans and ductwork as required by code.

The security elevator does not have an equipment room enclosure at the 8th floor level as required by code. Exhaust and supply air system would need to be provided for the proposed new room. New systems shall be connected to the DDC control system.

The electrical portion of the facility assessment recommends a new electrical room be located at the 8th floor level. Exhaust and supply air system would need to be provided for the proposed new room. New systems shall be connected to the DDC control system.

Life Safety upgrade: Add master control switch for ventilating systems as required by city code. Add other smoke control systems (dampers) as floors are renovated.

Remove all abandoned or non-functioning equipment as noted above (i.e. heat exchanger near steam service entrance, remote condenser on 2nd floor roof, Carrier chiller system in 8th floor penthouse, etc.).

Existing Plumbing and Fire Protection Conditions;

Domestic Water System

The domestic water to the building is served by several laterals, which are supplied from a 12-inch City of Milwaukee water main located in the West State Street, on the north side of the building. The laterals include a 6-inch domestic water supply, a 1-1/2-inch lawn sprinkler line (which has been disconnected and capped at the entrance to sub-basement Room SB-2), a 6-inch fire protection supply, and an 8-inch fire protection supply. All of the water supplies enter the building in sub-basement room SB-2.

The building's 6-inch domestic water supply extends into the sub-basement through a 4-inch water meter with a 5/8-inch low flow meter. A 5-inch line extends from the meter up to the domestic booster pump system located in basement Room B-8. A booster pump system serves the entire Police Administration Building and is the original equipment to the building.

There is a second, 3-inch, water meter with by-pass located in basement Room B-16. It is unknown how this meter is supplied. This meter serves the two levels of the Police Garage, which includes the locker rooms, toilet rooms, and miscellaneous hose bibs and parking deck hose valve stations.

The domestic water booster pump system is comprised of (2) 5hp, 3515 RPM, 230/480V, 3-Phase alternating domestic booster pumps, rated at 200gpm at 27 ft of head each. Suction pressure read 65psig and system pressure read 120psig during the initial site observations; however, it has been reported that the pressure gauges are no longer accurate. After the



booster pumps are two pressure tanks at 80-90 gallons each. From the pressure tanks, a 4-inch cold water line provides the domestic water supply for the Police Administration Building, including the domestic hot water system.

The domestic hot water original to the building was supplied from a steam to water heat exchanger with a storage tank located in basement Room B-8. This system was replaced in 2002 and the storage tank was eliminated. The hot water system maintains 120-degree hot water for the building. Two hot water supply lines come from the converter, one provides hot water to the Police Administration Building and the other serves the Police Garage. All hot water is returned to the hot water supply system through circulating pumps located adjacent to the converter system. Return water temperature was observed to be 105-110-degrees.

A 4-inch line from the booster pump system drops down to the sub-basement's mezzanine level and serves the building's domestic cold water supply main. A 2-1/2" line from the hot water system drops down to the sub-basement's mezzanine level and serves the building's domestic hot water supply main. The hot and cold water supply mains extend across the mezzanine level to serve several risers located throughout the building. All of the hot water risers and mains are returned back to the hot water system through a 1-1/4-inch hot water return main, also located in the mezzanine level of the sub-basement. This line rises up to the basement and extends to the circulating pump and hot water supply system.

The domestic cold, hot, and return piping are comprised of three risers extending from the sub-basement mezzanine level. Riser #1 ends at the fifth floor, and branches at the third floor to create Riser #5. Riser #5 ends at the sixth floor. Riser #2 ends at the seventh floor and is extended at the first floor to create Riser #4 and again at the fourth floor to create Riser #6. Riser #4 and Riser #6 end at the sixth floor. Riser #3 ends at the eighth floor. These risers, and much of the distribution, are original to the building. As these risers offset many times, as herein mentioned, it will make remodeling floor by floor difficult if they are to remain in service.

The Police Garage is served separately from the Police Administration Building. A 3-inch domestic cold water line from basement Room B-16 and a 1-1/4-inch domestic hot water line from the hot water converter extend down to the sub-basement level of the garage and are distributed along the deck of that level. A ¾-inch hot water return line runs parallel to the hot and cold mains, returning to the circulating pump and hot water supply system.

Sanitary and Venting System

Sanitary drains are provided on the eighth floor for the mechanical room and mechanical equipment. Plumbing fixtures and drains located at each floor are collected in the sanitary waste system and gravity drained down through the building. The north half of the building is collected in a 6-inch gravity drain line that drops to the ceiling of the sub-basement and gravity drains through an 8-inch line extending to the far east end of the building. The south half of the building is collected at the ceiling of the sub-basement in an 8-inch drain line. This 8-inch drain line extends east along the wall of the garage and drops low in room SB-18. Both 8-inch sanitary lines are then combined in a 10-inch sanitary building drain/sewer. The 10-inch line extends to the City of Milwaukee sanitary main in North Seventh Street, east of the building. Sub-basement waste lines are gravity drained to the duplex ejector system and pumped up to the 8-inch sanitary line serving the north half of the building.

A separate 6-inch sanitary building drain connects to the City of Milwaukee sanitary system which serves the Police Garage in the Police Administration Building.



Sanitary vent pipes from both areas of the building are combined into vent stacks, typically located adjacent to the sanitary stacks, and terminate through the roof above the eighth floor and penthouse.

Storm Water System

Roof drains are provided on the eighth floor above the mechanical room, on the small roof area above the second floor, and on the entry stair lobby. Deck drains are provided on terrace areas on the first floor. Roof and deck drains are collected in the storm system and gravity drained through the building. Stacks on the east half of the building are collected at the ceiling of the sub-basement mezzanine in a 4-inch conductor east of Stair #6. This pipe then exits the building through the wall and extends north to a 15-inch storm sewer in the driveway. The stacks on the west half of the building are collected at the ceiling of the sub-basement mezzanine in a 12-inch storm conductor above room M-2. This pipe then exits the building through the wall and extends north to a 15-inch storm sewer in the driveway. There is a trench drain in the loading dock and catch basins in the driveway which connect to manholes along the 15-inch storm sewer in the driveway. The storm sewers are collected in a manhole and gravity drained through a 15-inch storm sewer which extends to the 36-inch City of Milwaukee combined sewer in West State Street, to the north of the building.

There is a drain tile system around the east, north, and west exterior walls of the sub-basement in the Police Administration Building that is collected in a clearwater sump. The sub-basement clearwater drain lines are gravity drained below the floor and also connected to the clearwater sump. The sump contains a duplex ejector system, which pumps the storm water collected up to the 12-inch sanitary gravity drain line located on the sub-basement mezzanine level above room M-2.

The drains in the Police Garage are collected separately from the Police Administration Building. The storm drain piping is gravity drained down to below the sub-basement level and combined in a 12-inch storm building drain. There is drain tile around the perimeter and below the sub-basement floor slab in the Police Garage, which is collected and tied in to the storm building drain. The storm building drain line runs east and leaves the building in a 12-inch storm building sewer and connects to the City of Milwaukee storm sewer system.

Plumbing Fixtures

The north central area of the building, typically located north of passenger elevator (E-2) contains public toilet rooms. Most of these public toilet rooms are original to the building, excluding the sixth floor which was renovated in 2006. The typical fixtures, original to the building, include wall hung water closets with hand operated flush valves and wall hung lavatories with handle controlled faucets. The men's rooms also include stall type floor urinals, which typically flush from a controller operated by a door switch. Holding cells, on the fifth and sixth floors are equipped with combination type, security fixtures (aluminum body with a porcelain finish inside the bowls).

Most of the elevator lobbies have been remodeled to include new drinking fountains, which appear to have been upgraded to meet ADA requirements.

Fire Suppression System

Multiple fire suppression systems exist. The primary system is a sprinkler system that serves only the garage, sixth floor, and other minor areas (sub-basement, mezzanine); with sub-systems that includes a dry system for the gas island and an ECARO25 system for the data room on the sixth floor.



The fire pump serving the primary wet system is original to the building and is a 30hp, 1765RPM, 230/460 volt, 3-phase continuous duty pump. This system is fed from the 6-inch fire protection supply main in the sub-basement, which includes a double detector check valve and by-pass meter. This system, including the jockey pump, valves, controls, flow and tamper switches, etc., is located in basement Room B-8. The pump supplies several standpipe risers serving fire hose cabinets located on each floor throughout the building and fire hose valves located on the floor level landings in the main stair towers (Stair #1 and Stair #2). There are automatic sprinkler heads in the sub-basement, sub-basement mezzanine and 6th floor levels which are also fed from the sprinkler system.

The Police Garage is fully sprinkled and is supplied separately from the Police Administration Building. The fire protection riser for this area includes backflow protection, valves, flow and tamper switches, etc. and is located in basement Room B-16. This riser is fed from the 8-inch fire protection supply main running through the sub-basement. This riser also serves the dry-pipe valve extending to provide fire protection for the gas island.

Plumbing and Fire Protection Deficiencies:

Plumbing piping distribution (water, Sanitary and storm) is past anticipated life expectancy and much of the insulation contains asbestos. Many sanitary lines have been abandoned due to failure and lack of access due to asbestos concern.

Domestic booster pump is past anticipated life expectancy and gauges are inaccurate. The controller is obsolete and parts are increasingly difficult to obtain for the pump assembly.

Toilet rooms, where the original fixtures remain, do not meet ADA requirements or current water efficiency requirements.

The security elevator contains no sump or drain.

The current NFPA code requires hose connections at the intermediate stairwell landings. Existing hose connections are at each floor level proper. The local authority having jurisdiction should be consulted to confirm if the existing hose connection locations could be grandfathered in even with future renovations.

Fire Pump size, installation and location does not meet current NFPA codes and standards.

Plumbing and Fire Protection Recommendations:

The following are preliminary recommendations and basis of design of plumbing and fire protection systems upgrades for the proposed master space planning and systems upgrades for the City of Milwaukee Police Administration Building:

Domestic Water Booster Pump system: Replace existing 200gpm duplex booster pump system and associated pressure tanks located in the basement level. Extend monitoring controls from the existing Trane DDC system to provide status and alarm notification. This replacement is currently being scheduled for implementation in 2010 under a separate contract.

Domestic Water Piping: New cold water, hot water and hot water return piping should be installed throughout the building. New risers should be extended through the existing duct shafts located near the main stair wells and central to the building. These risers would supply fixtures on all floors and would accommodate phased remodeling of each floor if desired. All piping shall be insulated with new fiberglass insulation. All existing piping and asbestos insulation (assumed) should be removed.

Sanitary waste system: Existing piping should be removed and new risers should be installed utilizing either existing or new shaft locations. Branch piping to each floor would be replaced as floors are remodeled and connected to the new risers. Sanitary piping at the basement, sub-basement and garage level ceilings should be replaced as well. The existing duplex



ejector pump system in the sub-basement would remain. DDC controls should be extended to these pumps to provide status and alarm conditions to the building management system.

Storm waste system: Existing piping should be removed and new risers should be installed utilizing either existing or new shaft locations. Existing roof and deck drains would be reconnected to new piping and risers. Storm piping at the basement, sub-basement and garage level ceilings should be replaced as well. The existing duplex sump pump system would remain. DDC controls should be extended to these pumps to provide status and alarm conditions to the building management system.

Add clear water sump and simplex pump system and piping for the inmate elevator pit. Connect to existing storm drain piping per code. Connect to DDC control system for status and alarm monitoring.

Plumbing Fixtures: Replace all existing fixtures with new code required water efficient fixtures as space programming and floor by floor remodeling warrants. Existing water coolers are fairly newer (approx. 10 years old) and could be re-used if desired as they appear to meet ADA codes and look to be in good condition. Public toilet fixtures would be vitreous china type with hard wired infrared faucet and urinal flush valve controls. The owner has requested that all water closet fixtures are fitted with manual flush valve controls. One to two employee break areas will be accommodated on each floor with future remodeling. These break areas would be fitted with stainless steel sinks and manual faucets. Holding cell fixtures on the 5th and 6th floors should be replaced with new stainless steel combination correctional institution type security fixtures. ADA fixtures would need to be provided as required by code in all areas.

Fire Protection system: Extend new sprinkler system at each floor level (including penthouses) from the existing stairwell standpipes. Flow and tamper switches would be provide at each level to monitor the system through the fire alarm system. The recent sixth floor remodeling project is a good example of this recommendation. Remaining areas in the sub-basement and garage areas that are currently protected would remain connected to the system and would require only upgrades as required by current codes and standards.

Fire Pump system: The existing 30h.p. fire pump is not large enough to supply the building based on current codes and standards. A new fire pump, jockey pump and controllers would be recommended. The new fire pump size would be approximately 100h.p. The new fire pump system should be connected to the building fire alarm system. Based on current NFPA 20 (2010), the fire pump is required to be placed in a 2hr rated room separate from all other occupancies. No other equipment or infrastructure (piping, conduits, ducts) are allowed in this room unless the utilities serves the room (exception for domestic water piping and equipment is allowed). One possible location for the fire pump would be to relocate it to room B-16 located just off of the parking garage level.

Plumbing and Fire Protection Construction Phases:

The following is a preliminary sequencing of plumbing and fire protection system upgrades for the proposed master space planning and systems upgrades for the City of Milwaukee Police Administration Building:

Step 1: Replace fire pump system. Since this is a code deficiency it would be recommended that the fire pump upgrades should be implemented at the earliest part of any infrastructure or remodeling upgrade projects.



Step 2: Domestic Water Piping: New cold water, hot water and hot water return piping should be installed throughout the building. New risers should be extended through the existing duct shafts located near the main stair wells and central to the building. These risers would supply fixtures on all floors and would accommodate phased remodeling of each floor if desired. All piping shall be insulated with new fiberglass insulation. All existing piping and asbestos insulation (assumed) should be removed. This recommendation should occur prior to any major floor renovations (similar to extending new supply ducts). This work could occur in existing shafts or could be sequenced in conjunction with the stairwell pressurization system install with new pipe chases created adjacent to the pressurization duct shafts.

Step 3: Storm and Sanitary Piping: New sanitary and storm piping (including venting) should be installed throughout the building. New risers should be extended through either the existing duct shafts located near the main stair wells and central to the building or in new pipe chases where required. The sanitary risers would serve fixtures on all floors and would accommodate phased remodeling of each floor if desired. The new storm piping would serve existing roof and deck drain locations. All piping shall be insulated with new fiberglass insulation. All existing piping and asbestos insulation (assumed) should be removed. This recommendation should occur prior to any major floor renovations (similar to extending new water risers). Most work could occur in existing shafts or could be sequenced in conjunction with the stairwell pressurization system install with new pipe chases created adjacent to the pressurization duct shafts.

The following recommendations would occur during the floor by floor renovation projects:

Sanitary waste and domestic water distribution: Extend new branch piping to new risers noted above. Remove existing branch piping.

Plumbing Fixtures: Replace all existing fixtures with new code required water efficient fixtures as space programming and floor by floor remodeling warrants. Existing water coolers are fairly newer (approx. 10 years old) and could be re-used if desired as they appear to meet ADA codes and look to be in good condition. Public toilet fixtures would be vitreous china type with hard wired infrared faucet and urinal flush valve controls. The owner has requested that all water closet fixtures are fitted with manual flush valve controls. One to two employee break areas will be accommodated on each floor with future remodeling. These break areas would be fitted with stainless steel sinks and manual faucets. Holding cell fixtures on the 5th and 6th floors should be replaced with new stainless steel combination correctional institution type fixtures. ADA fixtures would need to be provided as required by code in all areas.

Fire Protection system: Extend new sprinkler system at each floor level (including penthouses) from the existing stairwell standpipes. Flow and tamper switches would be provide at each level to monitor the system through the fire alarm system.

The following recommendations could be sequenced at almost any time:

Fire Protection: Remaining areas in the sub-basement and garage areas that are currently protected would remain connected to the system and would require only upgrades as required by current codes and standards.

The existing duplex ejector pump system in the sub-basement would remain. DDC controls should be extended to these pumps to provide status and alarm conditions to the building management system.



The existing duplex sump pump system would remain. DDC controls should be extended to these pumps to provide status and alarm conditions to the building management system.

Add clear water sump and simplex pump system and piping for the inmate elevator pit. Connect to existing storm drain piping per code. Connect to DDC control system for status and alarm monitoring.

Domestic Water Booster Pump system: Replace existing 200gpm duplex booster pump system and associated pressure tanks located in the basement level. Extend monitoring controls from the existing Trane DDC system to provide status and alarm notification. This replacement is currently being scheduled for implementation in 2010 under a separate contract.

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City of Milwaukee- Police Administration Building Electrical Systems Assessment and Design Recommendations (March 19, 2010)

A site visit was made on February 22, 2010 to make a cursory review of the existing electrical, lighting, fire alarm and other systems currently in use. Following is a general description of the existing systems and conditions, along with recommendations based on current conditions; proposed remodeling will have an impact on these recommendations.

GENERAL

Pneumatic tube system (i.e. pipes, control conduits and compressor cabinets) have been abandoned in place.

The controller on the existing water booster pumps is obsolete.

There is currently no lightning protection system. However, the building hasn't apparently received any direct lightning hits.

Recommendation

- Remove pneumatic system components.
- Replace controller for water booster pumps.
- Provide a budget estimate for a lighting protection system.

ELECTRICAL SERVICE AND NORMAL DISTRIBUTION

The building is currently served by two 13.2KV incoming WE Energies lines (one primary and one alternate line). These lines serve a double ended substation that is in the process of being replaced, as well as the addition of two automatic transfer switches to interconnect backup power from the generators located in the plaza building.

Existing overall substation loading is assumed to be reduced due to Communications Department no longer in building.

There will be additional breaker space available in the substation when replaced to allow for additional distribution if needed.

There are concerns with transformer overheating/overloading, especially for transformer TFD (45KVA) which feeds five (5) 208Y/120V panels located on four (4) floors. The use of a single transformer to feed multiple panels over multiple floors occurs all over the building, leaving inadequate circuit and load capacity for increasing computer loads.

There are issues where the electrical rooms are used as storage areas, and impede required access and workspace around electrical equipment.

The east electrical rooms on floors 2nd thru 7th have inadequate width to provide code required work space in front of panels. There are also numerous locations where pipes, transformers, etc. impede on required work spaces required around equipment.

Approximate available electrical capacity per floor (based on 19,000SF/floor):

7th floor: 8.7W/SF 6th floor: 8.7W/SF 5th floor: 7.0W/SF 4th floor: 7.0W/SF 3rd floor: 9.2W/SF 2nd floor: 9.2W/SF

8th Floor

The existing General Electric (GE) distribution board LA is original to the building.

The four existing emergency panels are all original GE panels.

The existing motor control center (referred to as TCP on original plans) is obsolete Continental equipment that has sections converted for use as simple disconnect switches for large fans due to installation of separate VFDs.

7th Floor

Panels KA and KB (480V normal power) are original GE panelboards with available spaces. Panels KC and KD (208V normal power) are newer Square D panels, but are essentially full. Panel EH (208V emergency power) is a newer Square D panel, with 18 spaces but only has a 60A enclosed circuit breaker/15KVA transformer serving it.

6th Floor

Equipment has been updated as apart of recent remodeling project.

5th Floor

Panels HA and HB (480V normal power) are original GE panelboards with available spaces.

Panels HC and HE (208V normal power) are original GE panels, and are essentially full.

Panel HD and HC/1 (208V normal power) are newer Square D panels, with available spaces/spares, but these are panels already feed from other panels.

4th Floor

Panels GA and GB (480V normal power) are original GE panelboards with available spaces.

Panel GC (208V normal power) is an original GE panel, with only 6 available circuits.

Panel GD and GC/1 (208V normal power) are newer Square D panels, but are essentially full. Panel GD already has tandem breakers installed.

3rd Floor

Panels FA and FB (480V normal power) are original GE panelboards with some available spaces.

Panel FC (208V normal power) is an original double tub GE panel and full.

Panel FE on the west side (208V normal power) is a newer Square D panel and has available spaces.

Panel FE on the east side (208V normal power) is a newer Square D panel but was inaccessible for

further review. It appears to be feed from a small (\leq 15kva) transformer. There is a "UPS 6th floor" load center that has been abandoned in place.

Panels FD and FD/1 are newer Square D panels with only 5 spaces available between them.

Transformer TFD mentioned previously is located on this floor.

2nd Floor

Panels DA and DB (480V normal power) are original GE panelboards with some available spaces.

Panel DE (208V normal power) is a newer Square D panel but has no workspace clearance due to transformer TDE sitting on the floor directly in front of the panel.

Panels DD and DC/1 (208V normal power) are newer Square D panels, but only one space is available in DC/1.

Panels DB and DC (208V normal power) are original GE panels with only 4 spaces in DB.

1st Floor

Panel PA (480V normal power) is a newer Square D I-Line panel that only has 2 3-pole spaces available.

Panel CA (480V normal power) is an original GE panelboard with some spaces.

Panels CA/A. CA/B and CC are newer Square D panels with some spaces available.

Panel CB and associated transformer TCB (208V normal power) are located in the access (mezzanine) space near the elevators on the east side (addition) of the building.

Basement

Panel BA (480V normal power) is an original GE panelboard with few spaces.

Panel BC (left and right) is a newer Square D panel, but is full.

Panel ED (480V) and panel EE (208V) emergency panels are original GE panels and have some spaces.

Sub-Basement

Panel P-7 (240V 1 phase normal power) is a newer Square D panel, but is full.

Panel P-11 (240V 1 phase normal power) is an old Cutler-Hammer panel, has rusted and a couple of spaces.

Panel P-8 (240V 1 phase normal power) is a newer Square D, and has some spaces, with no main circuit breaker and feed from a 5kva transformer.

Panel AG (480V normal power) is an old Westinghouse panel with 4 spaces.

Panel AG-1 (240V 1 phase normal power) is a newer Square D, and has some spaces and feed from a 15kva transformer.

Panel AD (480V normal power) is a newer Square D I-line panel, but is full.

Panel AA (480V normal power) is an original GE panel with some spaces and currently feeds the fire pump with a 100A CB.

Panel AC (208V normal) is a newer Square D panel with approx. 20 spares.

Recommendations:

- Determine existing loading data on the existing panels and feeders via. meters installed a minimum
 of 5 days per panel to confirm that the existing and proposed adjustments to distribution will be
 adequate.
- Parts are no longer available for the 8th floor MCC and since half of the equipment is no longer used as starters, it is recommended to replace or refurbish the MCC and/or relocate some loads to a panelboard.
- Replace interiors of all original GE and Westinghouse panelboards.
- Remove single phase transformers and panelboards and install new three phase equipment.
- Replace rusted panelboards in sub-basement.
- Assuming that 1.5W/SF will be utilized for lighting per floor, at least 6W/SF should be provided for general devices (no HVAC); upgrade the 100A, 480V feeder currently serving the east fourth and fifth floor panels (GB & HB) to a 225A feeder.
- Replace existing transformers and add new energy efficient transformers so there are two on every
 other floor so that the 208/120V distribution is similar to the 480V distribution where one set of
 panels on a feeder serves two floors. Provide secondary protection on the transformers either as
 enclosed molded case circuit breakers or integrate a main circuit breaker into the secondary
 panelboard where possible.

GENERATOR BACKUP POWER AND EMERGENCY DISTRIBUTION

There are two 600KW/750KVA generators located in the plaza building that are connected into the substation. The connection method into the normal distribution means that these generators don't meet the NEC 700 or 701 sections for Emergency or Legally Required sources since the loads are not separable, however these generators would meet the definition of NEC 702 (Optional) loads.

There are "emergency" distribution panels located on the 8th floor, 7th floor, 6th floor (transformer TEK/panel EK is currently not in service) and the 1st floor. \$*) volt is only available on the 8th and 1st floors.

There is an existing 170KW (standby rating) generator located on the 8th floor that feeds through one (1) newer 400A transfer switch to a distribution panel. However, this distribution system serves lighting, exit signs, elevators and other critical loads. These loads are required to be separated into NEC 700 (Emergency) and 701 (Legally Required) loads. The transfer switch is located with the other distribution equipment and piping and not in a dedicated 2-hour room as required for these transfer switches.

There is also concern that the 170KW generator doesn't have the capacity to actually run the four (4) elevators simultaneously (elevator load is approx. 133KVA) if it was the only backup power (i.e. if the 600KW generators

failed) – this should be investigated further to make sure that elevator operation may need to be alternated so only one is allowed to operate at a time.

The existing fire pump is 30hp with the probability that it will increase in size as the sprinkler system gets expanded throughout the building. As part of the substation replacement project, there are new normal and emergency feeders brought to the existing fire pump (with new transfer switch). The disconnect switches being installed for the fire pump are sized at 400A. No jockey pump was observed.

There are three lighting contactors that are separated into exit signs, general lights and stairwells located on the 8th floor with correlated bypass switches located on the 1st floor that allows on/off operation. These switches are apparently never used, and it is unsure if the lighting contactors are appropriately wired to automatically turn on in the event of a power failure.

Recommendations:

- Build a 2 hour rated room on the terrace of the 8th floor to house new Emergency and Legally Required load transfer switches.
- Separate the NEC 700 and 701 loads, including additional loads for high rise requirements such as stairwell pressurization fans.
- Remove lighting contactors and associated switches.
- Add a set of emergency panels on the 4th floor to serve the middle portion of the building.
- Use fused panelboards and disconnect switches for life safety and legally required systems to assure selective coordination.
- · Add circuit for added jockey pump.
- Replace existing 400A disconnect switches and provide new 800A service rated; lockable fused disconnect switches (normal and emergency) for a new fire pump (100HP assumed) and new 2hour rated feeders (Lifeline RHW conductors in conduit). Feeder taps between substation bus and generator bus to respective 400A disconnect switches appear to be re-useable.

LIGHTING/LIGHTING CONTROLS

The lighting in most rooms consists of 4-lamp (2-lamp in corridors) lensed troffers with T8 lamps and electronic ballasts. Existing 2'x4' 4-lamp fixtures also have air handling capabilities.

Exit signs though the majority of the building has been retrofitted to PL florescent. Majority of them also look in poor shape.

The 6th floor had been changed to 3-lamp direct/indirect fixtures, PL fluorescent downlights and LED exit signs.

Exterior lighting wasn't reviewed, but some fixtures are still mercury vapor (which are supposedly no longer allowed to be produced).

The lighting controls for typical spaces consist of standard toggle switches. There are no occupancy sensors or low voltage control system.

There are lights for emergency illumination in the stairs, corridors and larger areas.

The lighting in the parking levels of the basement and sub-basement consist of high pressure sodium with some metal halide replacements

Recommendations:

- Complete retrofitting of light fixtures utilizing high output/long life T8 lamps/electronic ballasts
 capable of dual level switching (inner/outer fixture lamps) no air handling capabilities to allow
 easy maintenance. However, it is recommended that volumetric type fixtures or energy saving type
 parabolics be considered to reducing lamping down to 2-lamp fixtures.
- Install occupancy sensors in offices and other areas where possible.
- Coordinate proper spacing of emergency lights throughout.
- Provide new LED exit signs.

- Verify and add exterior emergency illumination as needed.
- Replace lighting in parking areas with LED fixtures LED fixtures will allow for potentially more
 efficient fixtures as technology advances for future LED module replacements. The use of LED
 fixtures would also provide instant on technology for emergency illumination use, since the area
 only has some emergency battery units that don't provide code required illumination.

FIRE ALARM

The existing fire alarm system (on the 6th floor) is a multiplex audio (speaker) Simplex 4100U system with the fire alarm control panel currently located on the 5th floor. There are speakers and/or strobes on the 6th floor, but no other AV devices in the building. Manual pull stations exist on the 6th floors. The original smoke detectors on the floors for elevator recall have been replaced and connected into the new system. Monitoring is done 24hours on site.

The original fire alarm panel and smoke detectors used for elevator recall have been abandoned in place.

Recommendations

- Continue expanding the fire alarm system to the remaining floors to meet high rise standards including adding 2 way communication capability to the elevators and stairwells.
- Provide a command center on the first floor as required by code with necessary controls for fire alarm, elevator controls and 8th floor emergency generator annunciator/controls.
- Remove abandoned fire alarm devices and equipment.
- Add duct smoke detectors for distribution as it is added to the individual floors and add smoke detection to AHUs.

SECURITY - ACCESS CONTROL

There is currently an access system (proximity ID cards) installed throughout the building including all elevators. There is no active monitoring of the access control, because doors being unlocked via keys vs. the local card reader don't cause an alarm.

Recommendations:

 Modify and add card readers and controllers as needed to accommodate remodeling (construction budget shall include six new card readers per floor- 1 at each of the 2 exit stairs, 1 at the new elevator door opening and 3 at locations to be determined).

SECURITY - CCTV

There are numerous areas (i.e. jail and various offices) that have CCTV cameras. Cameras/monitors in office areas appear to be color, while the cameras/monitors are B&W utilizing VHS recorders in the jail area on the 5th floor.

The interview rooms that were part of the 6th floor remodeling are cabled to a rack in the communications room, but there doesn't appear to be any monitors or recording capability installed.

Recommendations:

- Relocate camera systems as needed to accommodate remodeling.
- Consider upgrading camera system/recording in the jail area.

CLOCK SYSTEM

The existing clock system is a Simplex 24VAC 3-wire synchronous system with the master clock located in the 6th floor communications room.

Recommendations:

Replace the master clock head end or convert the system to a GPS based system with battery
operated clocks. Using a GPS based system will eliminate need for additional wiring for different
clock locations caused by remodeling and will allow for additional and/or relocations without
additional wiring infrastructure.

PUBLIC ADDRESS SYSTEM

The existing overall building paging system (25V) equipment is original with the equipment rack located on the first floor consisting of Dukane equipment (9-15W and 3-180W) amplifiers. This system is also used for making emergency announcements.

There is an existing original console sound system on the 4th floor that is in poor condition with operation being hit and miss. The console also has low voltage controls for the lighting in the room, which doesn't appear to be used.

Recommendations:

- Replace the existing overall building headend equipment and associated speakers and upgrade to a current 70V system. The system would need to be run in parallel till the existing system can be removed.
- Replace the sound system on the 4th floor with an infrared sound reinforcement system.

TELEPHONE/DATA/VIDEO

There are typically wall mounted punch blocks for telephone and rack mounted patch panels/switches located in the west electrical room of most floors.

There appears to Video as well as numerous other antenna systems routed throughout the building. However, there is an excessive amount of cabling that is unsupported and equipment that apparently is abandoned.

Recommendations:

- Remove all abandoned equipment and support all cabling.
- Continue to use telephone backboards and data racks for telephone and data systems, respectively.

OTHER SYSTEMS/CONCERNS

Receptacles for office use.

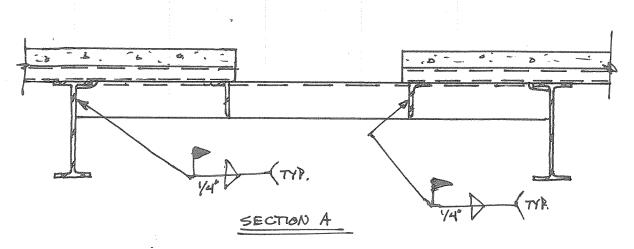
Old (and not operational) equipment for MacArthur Square fountain is located in the basement; that appears to be powered from a source outside this building.

Recommendations:

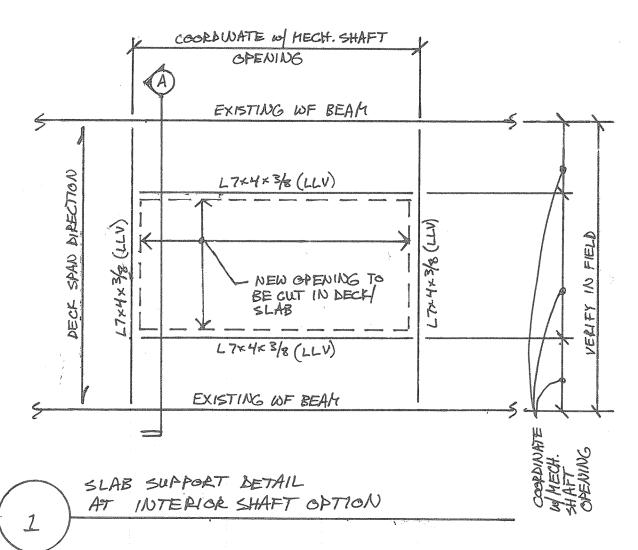
- Add additional general use receptacles and circuits as needed to accommodate renovated area layouts – these should be installed at ADA heights. This will require additional panelboards and distribution transformers.
- Remove or replace fountain equipment.

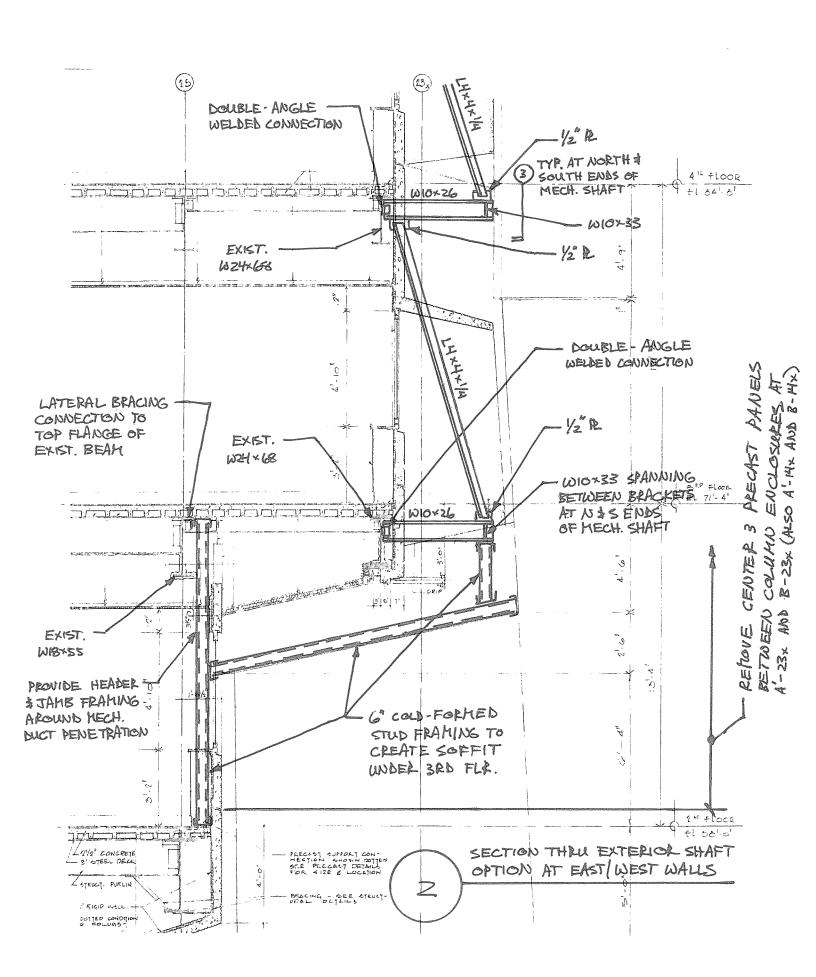


Made by CAF	Date 3/8/10	Job Number
Checked by	Date	
		Sheet Number
Backchecked by	Date	



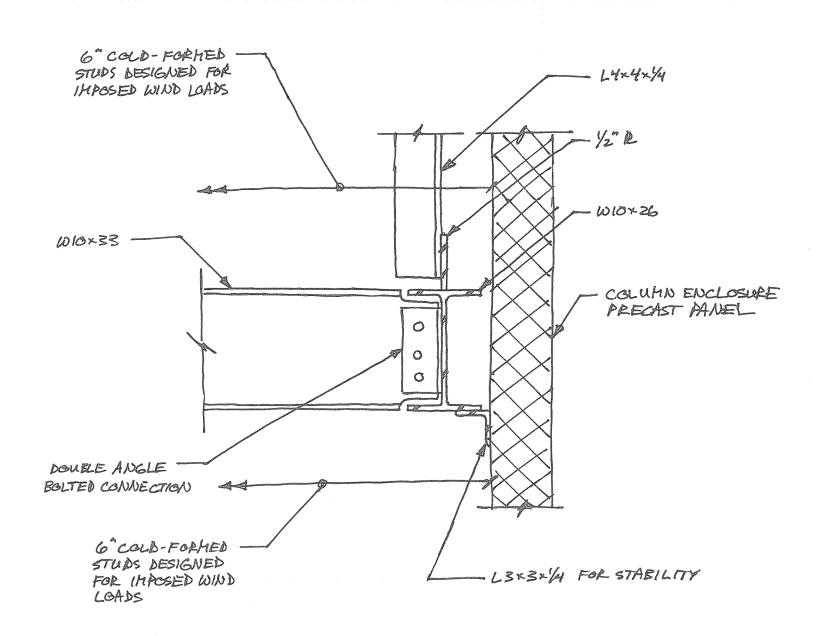
NOTES: FOR SHAFT OPENINGS AT 816 FLOCK, CONTACT A/E FOR VARIATION OF THIS DETAIL.



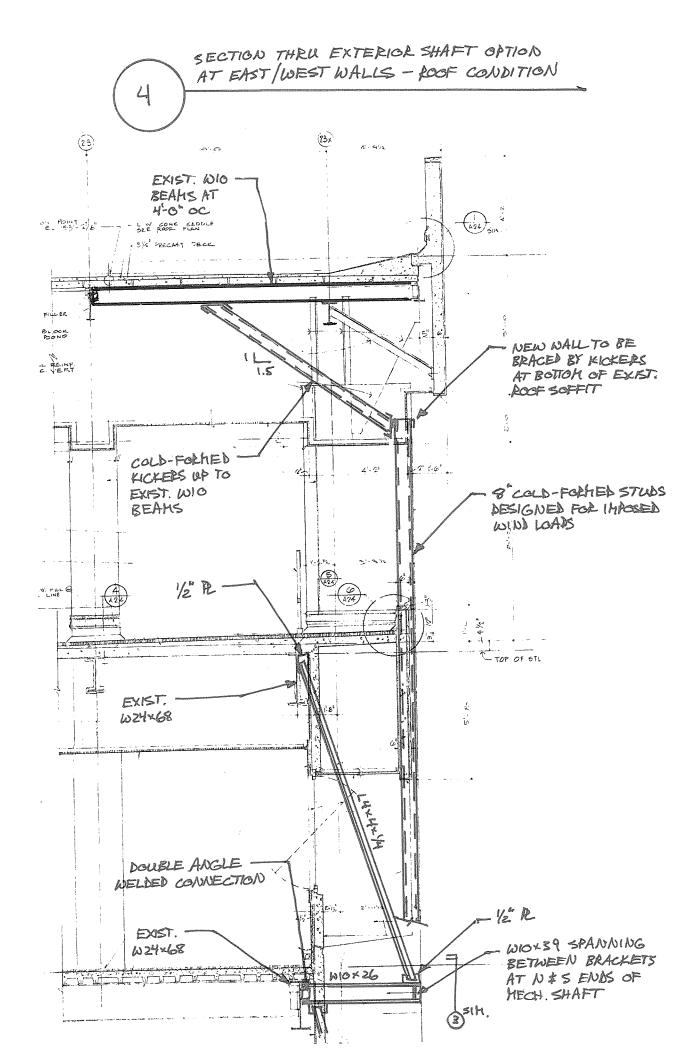


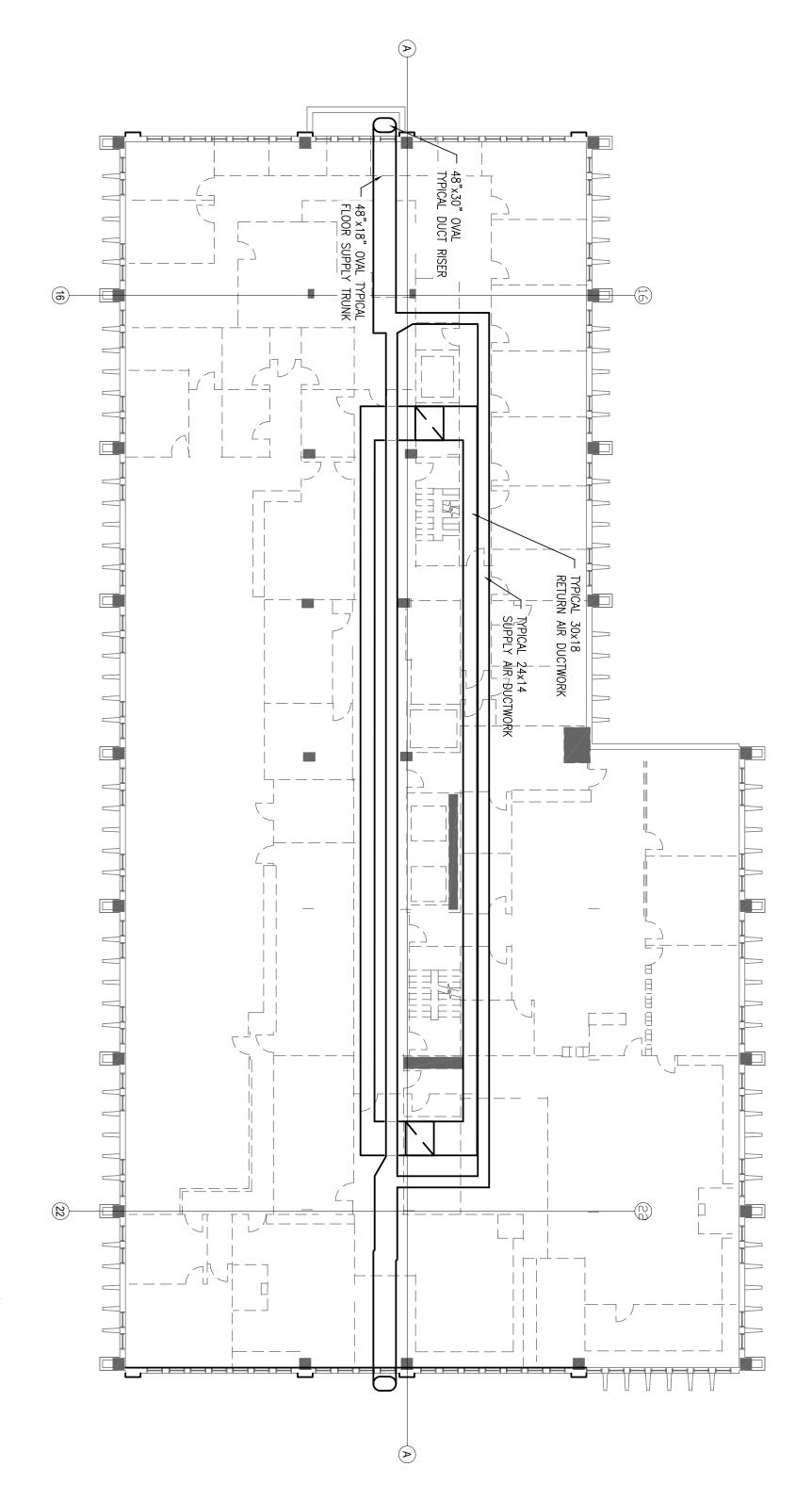


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Backchecked by	Date	Sheet Number



TYPICAL BRACKET CONNECTION AT NORTH & SOUTH ENDS OF EXTERIOR SHAFT OPTION

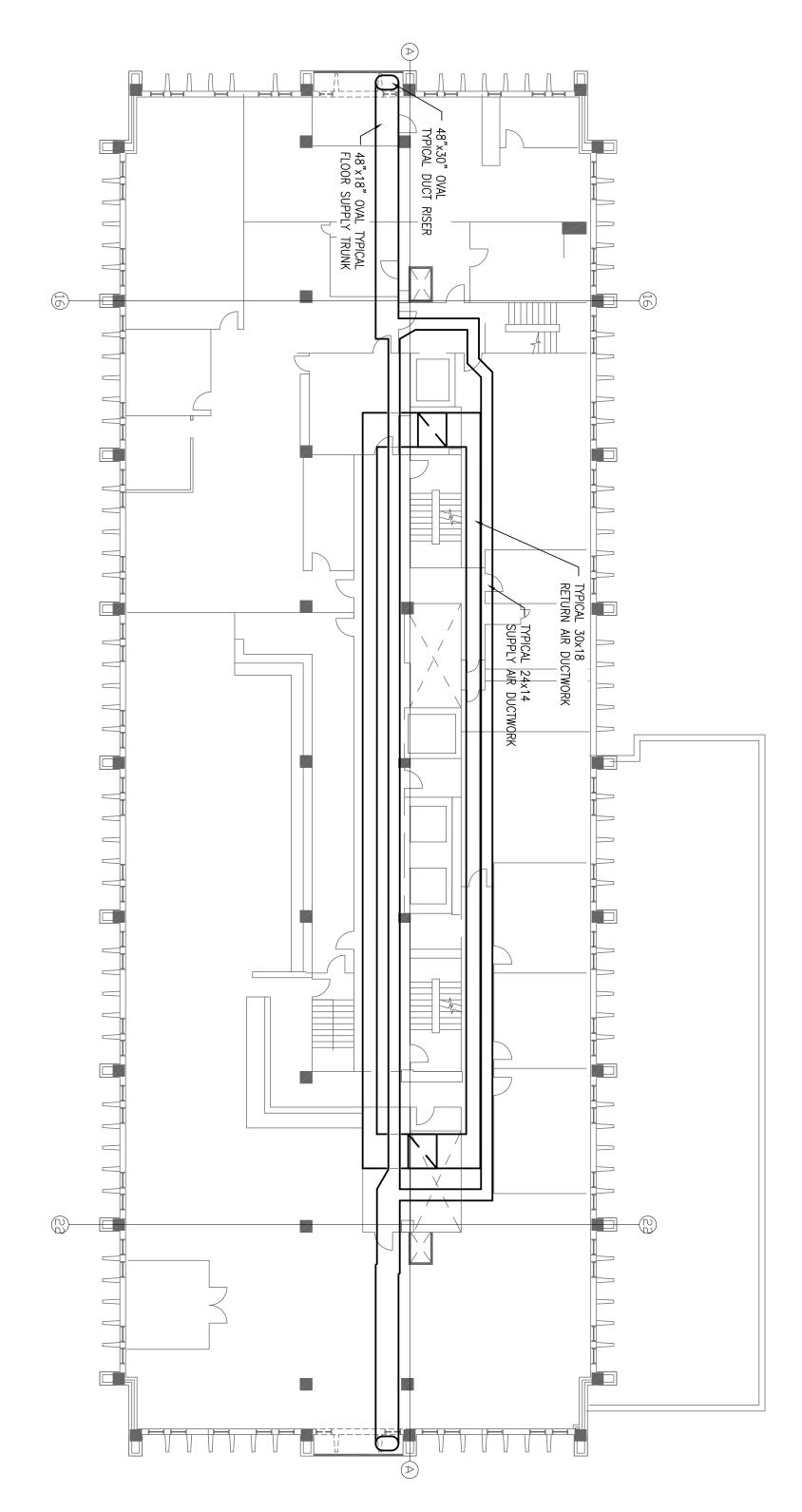




POLICE ADMINISTRATION BUILDIN HVAC UPGRADES - 2ND FLOOR PLAN

951 North James Lovell Street Milwaukee, WI 53233–1429





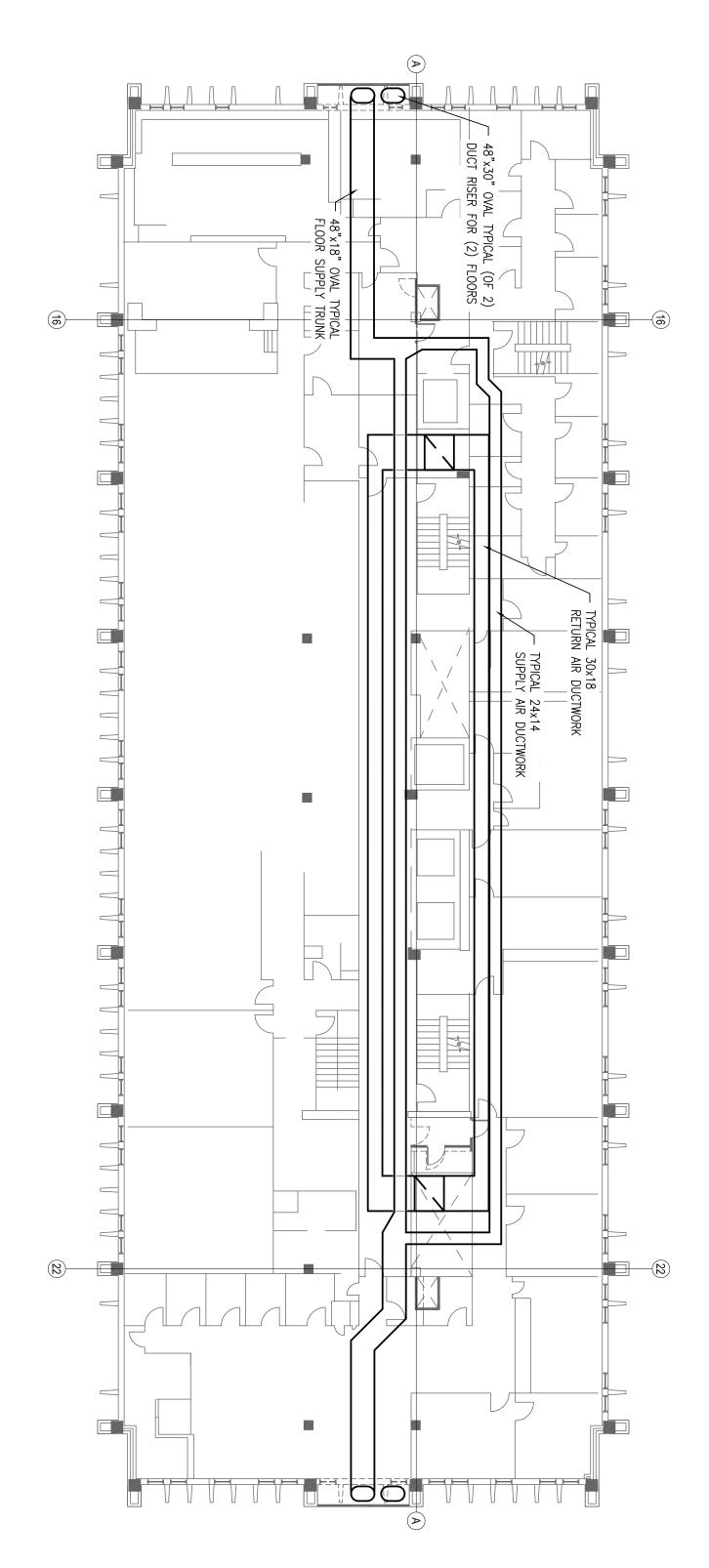
POLICE ADMINISTRATION BUILDIN HVAC UPGRADES - 3rd FLOOR PLAN

951 North James Lovell Street Milwaukee, WI 53233-1429



DATE

03/16/2010

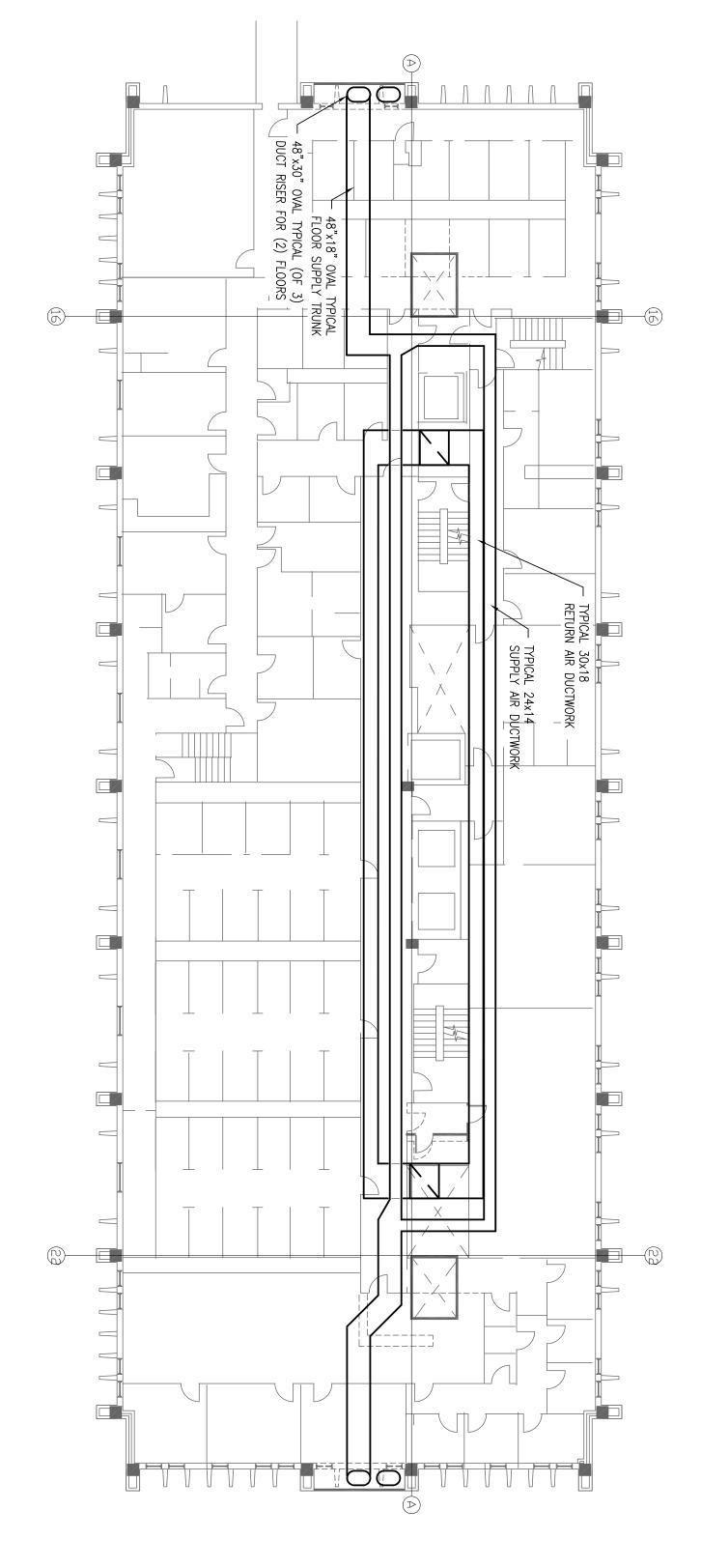


POLICE ADMINISTRATION BUILDIN HVAC UPGRADES - 4TH FLOOR PLAN

951 North James Lovell Street Milwaukee, WI 53233-1429



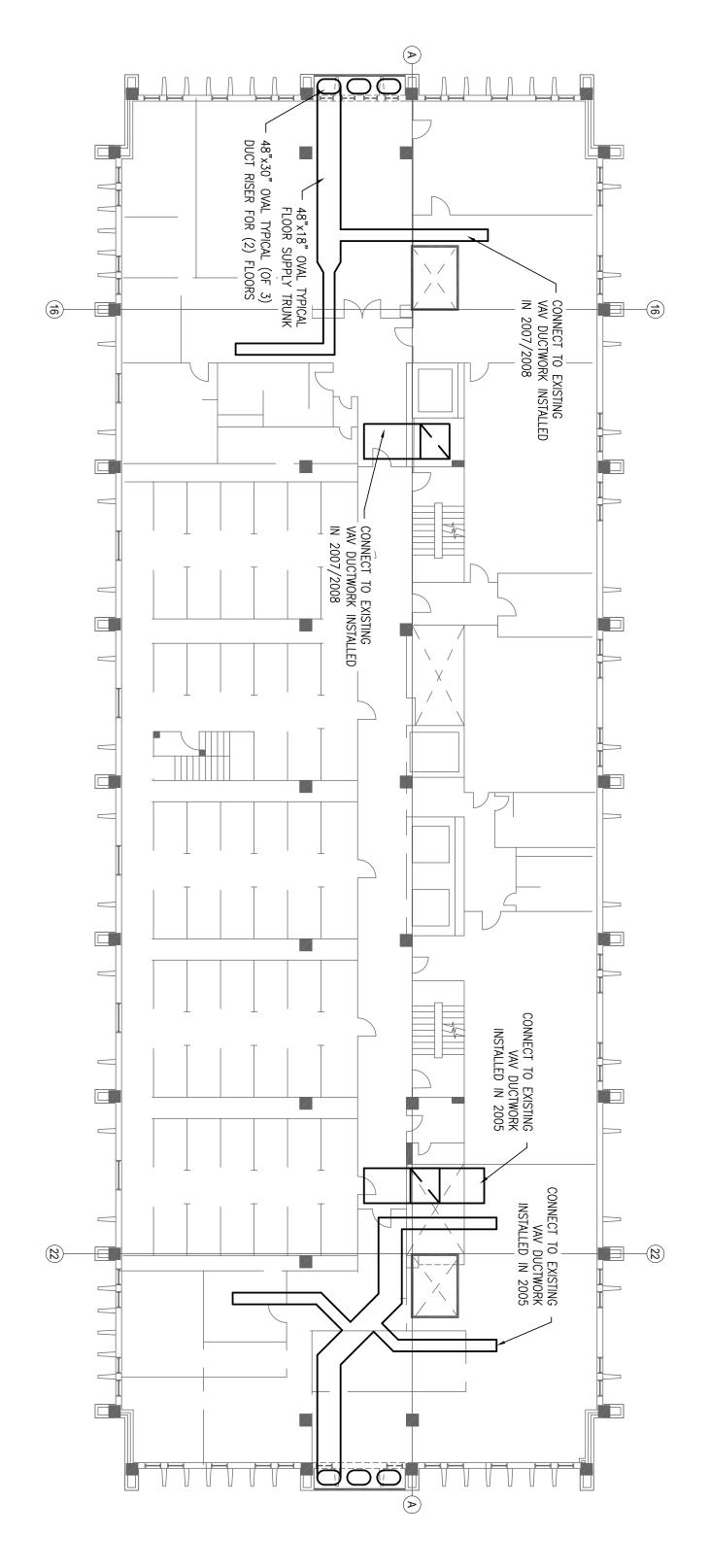
DATE



POLICE ADMINISTRATION BUILDIN HVAC UPGRADES - 5TH FLOOR PLAN

951 North James Lovell Street Milwaukee, WI 53233–1429



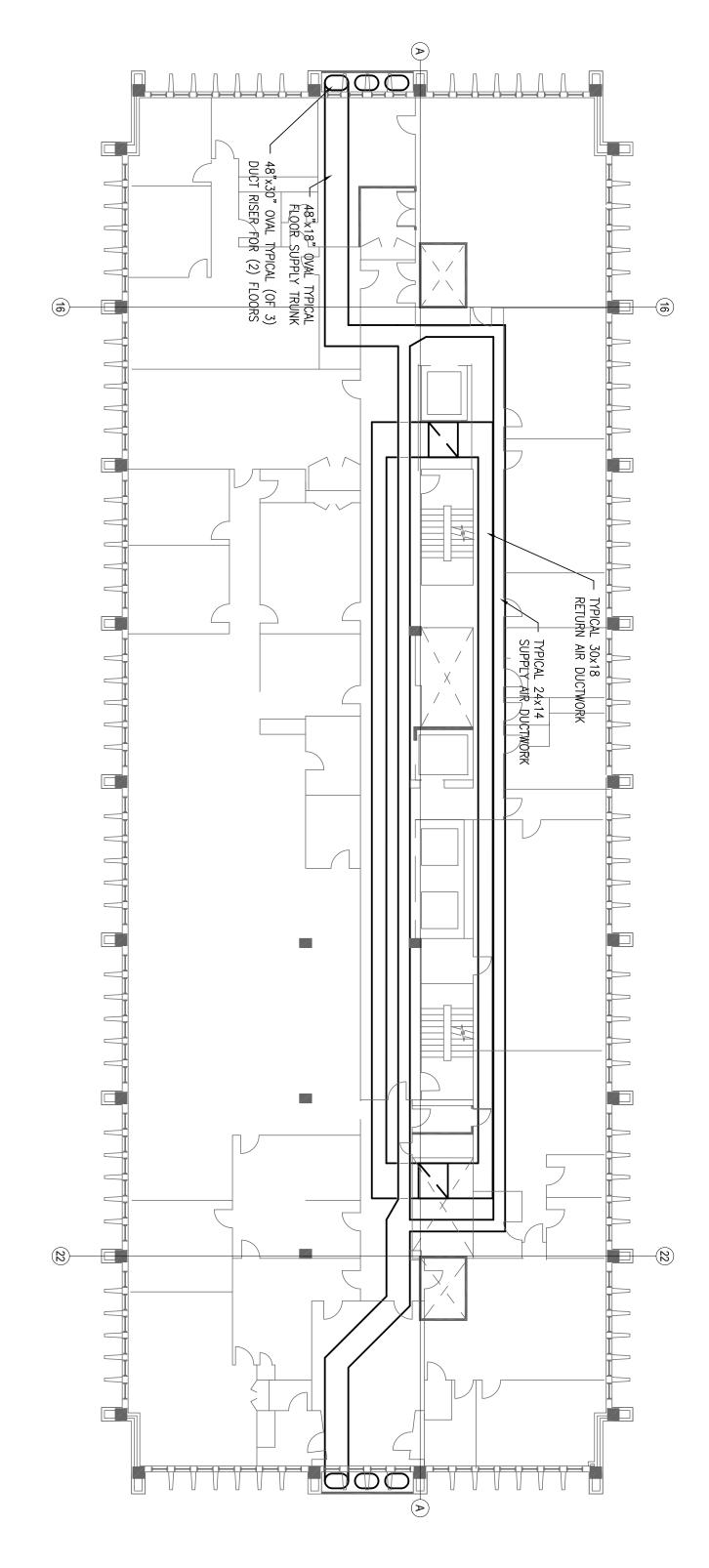


POLICE ADMINISTRATION BUILDING

HVAC UPGRADES - 6TH FLOOR PLAN

951 North James Lovell Street Milwaukee, WI 53233–1429





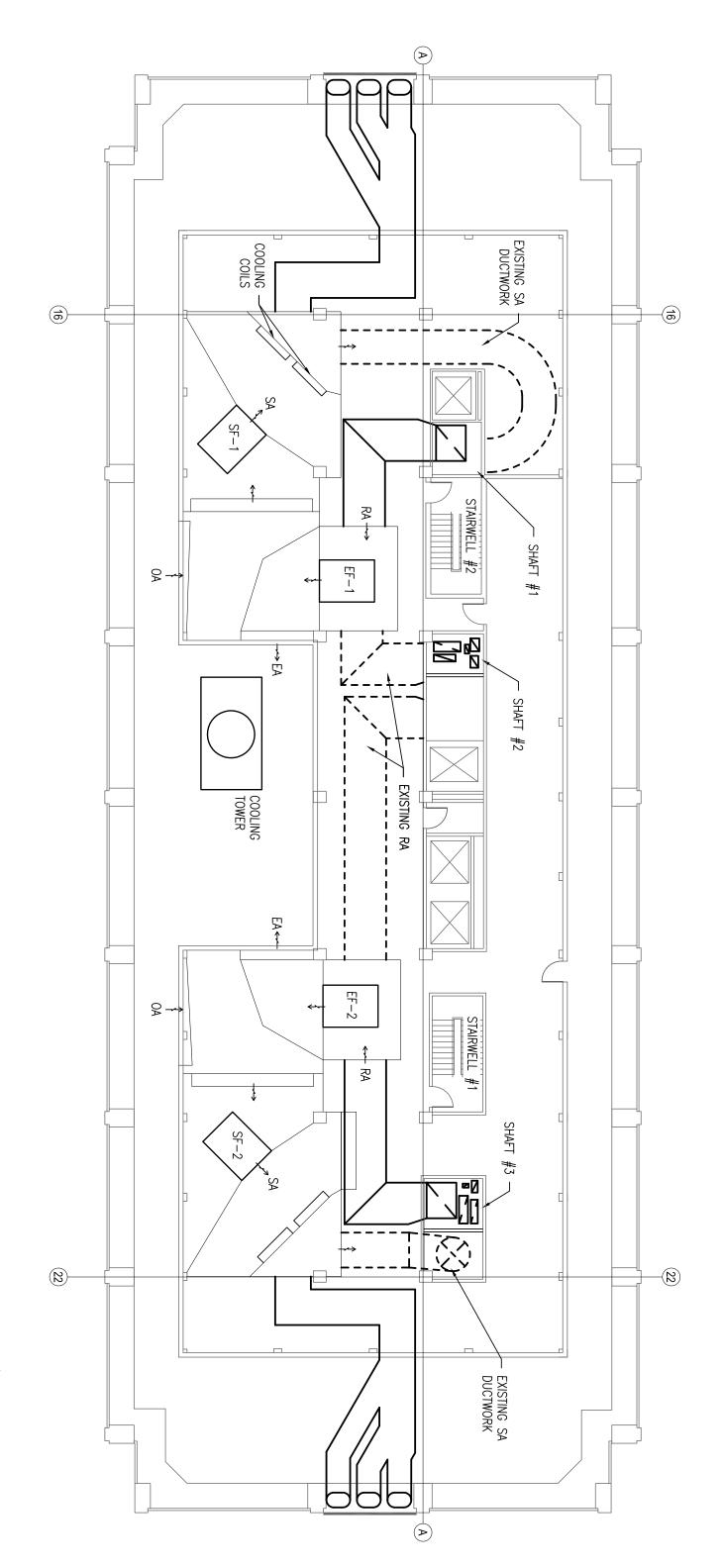
POLICE ADMINISTRATION BUILDIN HVAC UPGRADES - 7TH FLOOR PLAN

951 North James Lovell Street Milwaukee, WI 53233-1429

DATE

03/16/2010





POLICE ADMINISTRATION BUILDIN HVAC UPGRADES - 8TH FLOOR PLAN

951 North James Lovell Street Milwaukee, WI 53233–1429





POLICE ADMINISTRATION BUILDING - MASTER PLANNING

749 WEST STATE STREET MILWAUKEE, WI 53233

3.8.2010 REVISED 3.15.10, 3.22.10



90,166

90,166

3.8.10 eu:a 309032-13

DEPARTMENT NAME	PER:	SONNEL	PROJECT	<u> </u>		DEPARTMEN	T SPACE
	2010	2015	Total	Design		S.F.	Design
	1	I _				10 505	
FFICE OF THE CHIEF	17	5	22	22		10,527	10,52
MAP / TACTICAL PLANNING & OPS	13	5	18	18		2,320	2,32
UDGET & FINANCE	7	0	7	7		1,728	1,72
OLD CASE	14	1	15	15		1,364	1,36
DENTIFICATION SECTION	42	4	46	27		6,878	6,87
RISONER PROCESSING	8	0	8	4		4,827	4,82
OURT ADMINISTRATION	12	12	24	24		1,420	1,42
RASH INVESTIGATION UNIT	2	2	4	4		657	65
R	43	1	44	44		6,066	6,06
ACILITIES	6	4	10	10		2,034	2,03
ISTRICT 1	117	0	117	49		5,260	5,26
IB - GENERAL	3	0	3	3		1,618	1,61
IOLENT CRIMES DIVISION	97	2	99	14		8,742	8,74
EIGHBORHOOD INVESTIGATIONS DIVISION	51	0	51	51		4,045	4,04
IVESTIGATIVE MANAGEMENT DIVISION	30	6	36	36		2,783	2,78
ITELLIGENCE FUSION CENTER	36	23	59	59		4,130	4,13
RGANIZED CRIME DIVISION	57	0	57	53		5,272	5,27
ENSITIVE CRIMES DIVISION	64	0	64	64		4,528	4,52
CENSE INVESTIGATION UNIT	7	0	7	7		731	73
IGH TECH UNIT	4	1	5	5		1,582	1,58
OTAL PERSONNEL COUNT	630	66	696	516	TOTAL DEPARTMENT PERSONNEL S.F.	76,510	76,51
	1	ı					
					TOTAL BUILDING SUPPORT SPACE S.F.	13,656	13,65
					SUB-TOTAL BUILDING S.F.	90.166	90,16

TOTAL SQUARE FOOTAGE



BUILDING SUPPORT	BUILDING SUPPORT PROJECTIONS				BUILDING SUPPORT SPACE				SPECIAL REQUIREMENTS/ LOCATION
Space Type	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Fitness Center	0	1	1	1		30 x 30	900	900	Equivalent in size to District 3
Vending Alcove	1	0	1	1		5 x 10	50	50	
Lockers - General Uniformed Officers - male	1	0	1	1		25 x 25	625	625	Near Fitness Center, approx. 100 lockers
Lockers - General Uniformed Officers - female	1	0	1	1		12 x 15	180	180	Near Fitness Center, approx. 25 lockers
Restroom / Showers - General Uniformed Officers - male	1	0	1	1		18 x 30	540	540	Near Fitness Center
Restrooms / Showers - General Uniformed Officers - female	1	0	1	1		12 x 15	180	180	Near Fitness Center
Lockers / Restrooms / Showers - Sergeants Only	1	0	1	1		15 x 25	375	375	Near Fitness Center, approx. 25 lockers
All Purpose Conference Room - Daily PR news Briefing	0	11	1	1		15 x 20	300	300	Any floor - except 7th
6th Floor Interrogation rooms	8	0	8	8		6 x 8	48	384	To remain on 6th floor
6th Floor Line Up room	1	0	1	1		24 x 35	840	840	To remain on 6th floor
Mail Room	1	0	1	1		10 x 15	150	150	Retain existing location
Fire Command Center	0	11	1	1		10 x 15	150	150	Basement
Restrooms - Male / Female	0	1	1	1		15 x 20	300	300	Basement
Restrooms - Expansion	0	11	1	1		10 x 20	200	200	Second Floor
Electrical Closet	0	1	1	1		6 x 9	54	54	Second Floor - East
Electrical Closet	0	11	1	1		6 x 9	54	54	Third Floor - East
HVAC Shaft Option	0	11	1	1		6 x 8	48	48	Third Floor
HVAC Shaft Option	0	11	1	1		6 x 8	48	48	Fourth Floor
Electrical Closet	0	1	1	1		6 x 9	54	54	Fourth Floor - East
HVAC Shaft Option	0	11	1	1		12 x 15	180	180	Fifth Floor
Electrical Closet	0	1	1	1		6 x 9	54	54	Fifth Floor - East
HVAC Shaft Option	0	11	1	1		12 x 15	180	180	Sixth Floor
HVAC Shaft Option	0	1	1	1		12 x 15	180	180	Seventh Floor
Restrooms - Expansion	0	1	1	1		10 x 10	100	100	Seventh Floor
Electrical Closet	0	1	1	1		6 x 9	54	54	Seventh Floor - East
Facilities Storage	1	0	1	1		52 x 100	5200	5,200	Garage / Lower Level
PROJECTED SUPPORT SPACE								11,380	

GENERAL NOTES

- Orange = Requires additional HVAC
- 2. Yellow = Requires new plumbing. Break Alcove to receive new single basin sink. See floor plans for added fixtures in existing and new bathrooms and new shower locations on 3rd floor.
- 3. Green = Indicates plasmas / smart boards installed on wall include power / data at 60" A.F.F. Also indicates video cameras added in all interrogation rooms.
- 4. Blue = Requires additional structural support for equipment

	SUB-TOTAL	11,380
	CIRCULATION S.F.	2,276
TOTAL BUILDING SUPPORT S.F. WITH CIRCULATION		13,656





OFFICE OF THE CHIEF	PERSO	ONNEL	PROJEC	CTIONS	<u>P</u>	ERSONNE	L SPAC	<u>E</u>	SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Chief of Police (Flynn)	1	0	1	1	Office	20 x 27	540	540	
Assistant Chiefs	3	0	3	3	Office	16 x 22	352	1,056	CIB Assistant Chief to remain with CIB Divisions
Chief of Staff (Pal)	1	0	1	1	Office	15 x 17	255	255	
PR Manager	1	0	1	1	Office	15 x 17	255	255	
Inspectors	3	0	3	3	Office	12 x 16	192	576	
Administrative Support - Chief Of Police	3	0	3	3	WS	8 x 10	80	240	
Administrative Support - Assistant Chiefs	3	0	3	3	WS	8 x 8	64	192	Includes (3) for Chief of Police, (3) for each Assist. Chief
Courier	1	0	1	1	WS	6 x 6	36	36	
Receptionist	0	1	1	1	WS	8 x 8	64	64	
Public Information Officers - PR Assistants	1	2	3	3	WS	6 x 8	48	144	Locate next to PR Manager, lock up cameras
PR AV Specialist	0	1	1	1	WS	6 x 8	48	48	WS at PAB - main office to remain at Academy
PR Graphic Designer	0	1	1	1	Office / WS	25 x 25	625	625	2 plotters, layout space, storage and misc. equip
PROJECTED PERSONNEL COUNT	17	5	22	22	PERSONNI	EL S.F.		4,031	_

DEPARTMENT SUPPORT	SUPF	SUPPORT PROJECTIONS SUPPORT SPACE						
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.
Comp / Stat	1	0	1	1	Seats 60	32 x 40	1280	1,280
General Conference room	1	0	1	1	Seats 14	24 x 25	600	600
Chief's Private Conference	1	0	1	1	Seats 10-12	20 x 26	520	520
Chief's Break & Toilet (Existing plumbing to remain)	1	0	1	1	Private	10 x 10	100	100
Chief's private waiting area	1	0	1	1	Seats 3	6 x 12	72	72
Break Alcove	1	0	1	1	Private	10 x 12	120	120
Coat Closet	1	0	1	1	Alcove	2 x 8	16	16
Work / File room	1	0	1	1	Copy/Ptr	15 x 20	300	300
(2) Single Stall Toilet rooms	1	1	2	1	Private	8 x 10	80	80
General Reception / Waiting Area	1	0	1	1	Seats 6	15 x 20	300	300
General Storage	1	0	1	1	Supplies	10 x 10	100	100
Secure Storage for Chief's files	1	0	1	1	Private	10 x 12	120	120
PROJECTED SUPPORT SPACE						3,488		

 OII COLLY CITTOR OIL I	0,000
CIRCULATION S.F.	3,008
SUB-TOTAL	7,519

	<u>ADJACENCIES</u>
PRIMARY OMAP	- Directly Adjacent, Most Frequent Interaction:
Interaction	ARY - Same Floor or directly below, Medium : d Finance
1. 3000 Sespace to re 2. General teleconfere	IAL NOTES: q. Ft. of studio and AV equipment and storage emain at Academy for AV specialist. I conference room to be outfitted with encing equipment. I secure 7th floor. One option is to require key card

Work room to include layout space for collating.
 Graphic designer could be in an office or an area with partial walls. Needs to remain directly adjacent to all

access to 7th floor.

equipment.





TOTAL DEPARTMENT S.F. WITH CIRCULATION

OMAP / TACTICAL PLANNING & OPS	PERSONNEL PROJECTIONS				<u>P</u> I	ERSONNE	L SPAC	<u>E</u>	SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
OMAP - Captain (Gacek)	1	0	1	1	Office	10 x 15	150	150	
OMAP - Lieutenant	1	0	1	1	WS	8 x 8	64	64	
OMAP - Compstat Team	4	1	5	5	WS	6 x 8	48	240	Include dual monitors at (3) of the workstations
OMAP - Projects Team	4	1	5	5	WS	6 x 8	48	240	Collaborate often ,no high panel division, face each other
OMAP - University Interns	0	2	2	2	WS	6 x 6	36	72	
TP/O - Lieutenant	1	0	1	1	WS	8 x 8	64	64	
TP/O - Officer	1	1	2	2	WS	6 x 8	48	96	
TP/O - Aid	1	0	1	1	WS	6 × 6	36	36	
PROJECTED PERSONNEL COUNT	13	5	18	18	PERSONN	EL S.F.		962	

DEPARTMENT SUPPORT	ORT P	ROJEC	TIONS	SUPPORT SPACE				
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.
Work Room w/ layout space for TP/O team	0	1	1	1	Copy / Ptr	20 x 20	400	400
File Area (Includes PC w / scanner)	1	1	2	1	Common	15 x 15	225	225
Break Alcove	1	0	1	1	Common	7 x 10	70	70

								<u> </u>
PROJECTED SUPPORT SPACE								695

	<u>ADJACENCIES</u>
al S.F.	
400	PRIMARY - Directly Adjacent, Most Frequent Interaction:
225	Office of the Chief, Comp Stat Room
70	
	SECONDARY - Same Floor or directly below, medium
	Interaction:
	ADDITIONAL MOTEO
	ADDITIONAL NOTES: 1. Since required to remain directly adjacent to Office of the
	Chief - will share break alcove & office supply closet.
	Captain Gacek noted Tactical Planning & Ops to be
695	located with OMAP.

ical Planning & Ops to be

3. Separate Comp Stat group from Project team - possibly with tall panels.

SUB-TOTAL CIRCULATION S.F.	663
	2,320



DEPARTMENT PROGRAM WORKSHEET POLICE ADMINISTRATION BUILDING **BUDGET & FINANCE**

BUDGET & FINANCE	PERSO	NNEL	PROJE	CTIONS	<u>P</u> I	ERSONNE	L SPAC	<u>E</u>	SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Managers - (John , Barb, Vicki)	3	0	3	3	Office	10 x 12	120	360	
Accounting staff (Regina, Jackie, Karen)	4	0	4	4	WS	6 x 8	48	192	
						х	0	0	
						Х	0	0	
PROJECTED PERSONNEL COUNT	7	0	7	7	PERSONN	EL S.F.		552	

DEPARTMENT SUPPORT	SUPF	SUPPORT PROJECTIONS				SUPPORT SPACE				
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.		
Work Area (Includes office supplies)	1	0	1	1	Copy / Ptr	10 x 15	150	150		
Break Alcove	1	0	1	1	Common	7 x 10	70	70		
File Area (Include in open office)	1	0	1	1	Common	15 x 20	300	300		
Coat Closet	0	1	1	1	Common	2 x 6	12	12		
Conference room	1	0	1	1	Seats 6	10 x 15	150	150		
	ļ		***************************************			***************************************		***************************************		
PROJECTED SUPPORT SPACE								682		

<u>ADJACENCIES</u>	_
PRIMARY - Directly Adjacent, Most Frequent Interaction	n:
SECONDARY - Same Floor or directly below, medium Interaction: Office of the Chief	
ADDITIONAL NOTES:	

SUB-TOTAL	1,234
CIRCULATION S.F.	494
TOTAL DEPARTMENT S.F. WITH CIRCULATION	1,728



TOTAL DEPARTMENT S.F. WITH CIRCULATION

DEPARTMENT PROGRAM WORKSHEET POLICE ADMINISTRATION BUILDING COLD CASE

COLD CASE	PERSO	ONNEL	PROJE	CTIONS	PE	ERSONNE	L SPAC	<u>E</u>	SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Detectives	12	0	12	12	WS	6 x 6	36	432	Group collaborates 90% of time so no panel division
Case Management Workstaton	0	1	1	1	WS	6 x 6	36	36	
Interns	2	0	2	2	WS	6 x 6	36	72	
PROJECTED PERSONNEL COUNT	14	1	15	15	PERSONNE	EL S.F.	•	540	

DEPARTMENT SUPPORT	SUPF	ORT PI	ROJEC	TIONS	SUPPORT SPACE				
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Work Area (Plotter, copier, C/ B/W ptr, scanners)	0	1	1	1	Common	10 x 10	100	100	
File Cabeints	1	0	1	1	Common	10 x 12	120	120	
Quite Reading Room	0	1	1	1	Private	8 x 8	64	64	
Open Conference Area (To seat 6-8)	1	0	1	1	Common	10 x 15	150	150	

PROJECTED SUPPORT SPACE								434	

SUB-TOTAL	974
CIRCULATION S.F.	390
	1,364

ADJACENCIES

<u>PRIMARY</u> - Directly Adjacent, Most Frequent Interaction: Violent Crimes

<u>SECONDARY</u> - Same Floor or directly below, Medium Interaction:

ADDITIONAL NOTES:

- Chief of Staff noted to move them back to Violent Crimes
 Division of CIB
- 2. Once back with Violent Crimes they will have access to a copier & break alcove
- 3. Open office area needs minimum 15' pin up space.
- 4. Open Conference area to include existing plasma, DVD, CD's.
- 5. Currently 4700 Cases located at District 6, Mezzanine at PAB and in the jail
- 6. W/S, work area, file cabinets, & conference table can all be in one open room.





IDENTIFICATION SECTION	PERSC	NNEL I	PROJE	CTIONS	<u>P</u> I	ERSONNE	L SPAC	<u>E</u>	SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Captain (Moore)	1	0	1	1	Office	10 x 15	150	150	
Supervisors	5	0	5	1	Office	6 x 6	36	180	5 Supervisors in one office - all in 6x6 station w/ added files
Photo Lab	5	0	5	1	Lab	30 x 30	900	900	Includes 5 staff members at 3x5 Desk & all equip.
Forensic Video room	4	0	4	1	Office	15 x 25	375	375	Includes 4 staff members at 3x5 Desk & all equip.
Latent Print Examiners	4	1	5	1	Office	18 x 20	360	360	Together in private office
ID Techs	12	1	13	13	WS	6 x 6	36	468	Open office w/ Clerical
Clerical	4	0	4	4	WS	6 x 6	36	144	Open office w/ Techs
Prisoner Processing	1	0	1	1	WS	6 x 6	36	36	Open office w/ Clerical
Evidence Processing Lab	4	0	4	1	Lab	12 x 20	240	240	
Criminal Records	2	0	2	1	Office	20 x 30	600	600	Room includes back up for an all District Power Outage
CSI Unit	0	2	2	2	WS	6 x 6	36	72	*CSI Unit does not exist today.
PROJECTED PERSONNEL COUNT	42	4	46	27	PERSONN	EL S.F.		3,525	

DEPARTMENT SUPPORT	SUPF	ORT P	ROJEC	TIONS	3	SUPPORT	SPACE		
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Work Room / Area (Includes copy, 4 printers, files)	1	0	1	1	Copy / Ptr	12 x 15	180	180	
Photo lab general storage	1	0	1	1	Common	10 x 20	200	200	
Professional Intellinetics (within Photo lab)	1	0	1	1	Private	8 x 14	112	112	
Evidence Documentation room (Dark room)	1	0	1	1	Private	14 x 24	336	336	
Reception / Live Scan fingerprint	1	0	1	1	Public	10 x 15	150	150	
Locker room	1	0	1	1	Common	10 x 15	150	150	
Evidence Storage (Temporary, needs to be processed)	1	0	1	1	Private	10 x 12	120	120	
Break Alcove	1	0	1	1	Private	7 x 10	70	70	
Single Stall Toilet room	0	1	1	1	Private	7 x 10	70	70	
						·			
PROJECTED SUPPORT SPACE									

SUB-TOTAL	4,913
CIRCULATION S.F.	1,965
OTAL DEPARTMENT S.F. WITH CIRCULATION	6,878

<u>ADJACENCIES</u>
PRIMARY - Directly Adjacent, Most Frequent Interaction:
SECONDARY - Same Floor or directly below, Medium Interaction:
ADDITIONAL NOTES: 1. If Evidence Processing Lab moves to allow the photo lab

- If Evidence Processing Lab moves to allow the photo lab to expand must follow OSHA standards for proper ventilation.
- Current Criminal Records room is on a raised floor and as it houses back up for all District fingerprint records it would most likely be costly to relocate.
- CSI Unit is noted as potential future space. Additional programming will need to be completed if this group becomes part of ID.
- 4. If Live scan finger print area is relocated must include a





PRISONER PROCESSING	PERSO	ONNEL	PROJE	CTIONS	<u>P</u> I	ERSONNE	L SPAC	<u>E</u>	SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Sergeants	3	0	3	1	Office	12 x 16	192	192	1-3 Sergeants depending on shifts in 6x8 W/S
Head Jailors Office	2	0	2	1	Office	14 x 18	252	252	1-2 Officers depending on the time and day in 6x8 W/S
Supervisors	2	0	2	1	Office	6 x 6	36	72	Put both in (1) office, Include files within office
Municipal Court Liaison	1	0	1	1	Office	15 x 20	300	300	
PROJECTED PERSONNEL COUNT	8	0	8	4	PERSONN	EL S.F.		816	

DEPARTMENT SUPPORT	SUPF	ORT PI	ROJEC	TIONS		SUPPORT	SPACE	
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.
Prisoner search & data rooms	6	0	6	6		10 x 10	100	600
Photo & print rooms (Adult & Juvenile)	2	0	2	2		15 x 17	255	510
Prisoner property storage room	1	0	1	1		10 x 12	120	120
Intoxometer room	1	0	1	1		10 x 10	100	100
Female lockers	1	0	1	1		10 x 12	120	120
Equipment Storage	1	0	1	1		10 x 15	150	150
Break room (Existing to remain)	1	0	1	1		16 x 16	256	256
Female bullpen	1	0	1	1		16 x 16	256	256
Male bullpen	1	0	1	1		20 x 26	520	520
PROJECTED SUPPORT SPACE	l .		I.	!		<u> </u>		2,632

	<u>ADJACENCIES</u>
	Adjacent, Most Frequent Interaction: where cells are located.
SECONDARY - San Interaction:	ne Floor or directly below, Medium
ADDITIONAL NOTE 1. Existing cells to re	

	SUB-TOTAL	3,448
	CIRCULATION S.F.	1,379
TOTAL DEPARTMENT S.F. WITH CIRCULATION	-	4,827



DEPARTMENT PROGRAM WORKSHEET POLICE ADMINISTRATION BUILDING COURT ADMINISTRATION

COURT ADMINISTRATION	PERSO	NNEL	PROJE	CTIONS	<u>PE</u>	RSONNE	L SPAC	<u>E</u>	SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
CAS Officers	12	0	12	12	Office	6 x 6	36	432	Approx. 8 work at one shift
Municipal & Traffic Citations Unit	0	12	12	12	Office	6 x 6	36	432	Currently located at District 3
PROJECTED PERSONNEL COUNT	12	12	24	24	PERSONNE	EL S.F.		864	

DEPARTMENT SUPPORT	SUPF	ORT PI	ROJEC	TIONS				
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.
Work / files room (Part of CAS Open Office)	1	0	1	1	Copy / Ptr	10 x 15	150	150
	_							
	****				***************************************	***************************************	***************************************	•••••

PROJECTED SUPPORT SPACE								150

SUB-TOTAL	1,014
CIRCULATION S.F.	406
TOTAL DEPARTMENT S.F. WITH CIRCULATION	1,420

ADJACENCIES

PRIMARY - Directly Adjacent, Most Frequent Interaction:

SECONDARY - Same Floor or directly below, Medium Interaction:

ADDITIONAL NOTES:

- If Municipal & Traffic Citations Unit move to PAB they can easily be grouped with CAS who would like to remain on the 2nd floor (Existing building common break room will be relocated to smaller area so this group can expand south to accommodate potential 12 from District 3
- 2. (1) existing CAS Officer is located in 525 A should be moved to be located with this team.
- 3. Will use District 1 break alcove



DEPARTMENT PROGRAM WORKSHEET POLICE ADMINISTRATION BUILDING CRASH INVESTIGATION UNIT

CRASH INVESTIGATION UNIT	PERSO	NNEL	PROJE	CTIONS	<u>PE</u>	RSONNE	L SPAC	E	SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Investigating officers	2	2	4	4	Open area	6 x 6	36	144	
PROJECTED PERSONNEL COUNT	2	2	4	4	PERSONNE	EL S.F.		144	_

DEPARTMENT SUPPORT	SUPF	ORT P	ROJEC	TIONS	SUPPORT SPACE					
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.		
Work area - plotter & pc's & pin up space	1	0	1	1		15 x 15	225	225		
Files area	1	0	1	1		10 x 10	100	100		
					***************************************	***************************************		·····		
					***************************************	***************************************		·····		
PROJECTED SUPPORT SPACE	I	I	I	1		I		325		

<u>ADJACENCIES</u>
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PRIMARY - Directly Adjacent, Most Frequent Interaction:
SECONDARY - Same Floor or directly below, Medium
Interaction:
Identification Section
ADDITIONAL NOTES:
Need minimal 15' of pin up space to view large plots of accident scene.
2. As they are a small group they will utilize another groups
break alcove.

	SUB-TOTAL	469
	CIRCULATION S.F.	188
TOTAL DEPARTMENT S.F. WITH CIRCULATION		657





<u>HR</u>	PERSO	NNEL	PROJE	CTIONS	PERSONNEL SPACE			<u>E</u>	SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Managers (HR/EIP, Payroll, Medical, Background)	13	0	13	13	Office	10 x 12	120	1,560	
Payroll	13	0	13	13	WS	6 x 8	48	624	Current size is 5x5, need more surfaces & storage
Background	14	0	14	14	WS	2 x 4	8	112	The current call center sized desk seems to work fine
Medical	3	0	3	3	WS	6 x 8	48	144	
Receptionist	0	1	1	1	WS	6 x 8	48	48	Include transaction counter
PROJECTED PERSONNEL COUNT	43	1	44	44	PERSONN	EL S.F.		2,488	

DEPARTMENT SUPPORT	SUPF	ORT P	ROJEC	TIONS	SUPPORT SPACE				
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Reception (Include 4 - 6 chairs, coat alcove)	1	0	1	1	Public	10 x 15	150	150	
Work Room (2 copiers, ptrs, fax, office supplies)	1	0	1	1	Common	15 x 15	225	225	
Conference room	1	0	1	1	Seat 12	15 x 22	330	330	
Interview rooms	1	1	2	2	Seat 4	10 x 10	100	200	
Locked storage rm - for payroll checks	0	1	1	1	Private	10 x 12	120	120	
Break Alcove	1	0	1	1	Common	7 x 10	70	70	
File Area	1	0	1	1	Common	25 x 30	750	750	
PROJECTED SUPPORT SPACE									

<u>ADJACENCIES</u>
PRIMARY - Directly Adjacent, Most Frequent Interaction:
SECONDARY - Same Floor or Directly below, Medium Interaction:
ADDITIONAL NOTES: 1. During the day shift the conference room can be utilized

	SUB-TOTAL	4,333
	CIRCULATION S.F.	1,733
TOTAL DEPARTMENT S.F. WITH CIRCULATION		6,066

- by any other department. 2. Currently utilize a floor mounted smart board, would like it wall mounted.
- 3. Payroll & Medical could all be located together, separate today b/c of current space. Keep background on it's own.
- 4. EIP = Employment Improvement Recruitment
- 5. Payroll check rm to include layout & storage space





<u>FACILITIES</u>	PERSO	ONNEL	PROJE	CTIONS	PI	ERSONNE	L SPAC	<u>E</u>	SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Reception / Clerical	2	1	3	3	WS	8 x 8	64	192	
Managers	2	0	2	2	Office	10 x 12	120	240	
Assistant Managers (Paul & Dave)	2	0	2	2	Office	10 x 12	120	240	
Garage Supervisor	0	1	1	1	Office	10 x 12	120	120	
Restitution Recovery Personnel	0	2	2	2	WS	6 x 8	48	96	
PROJECTED PERSONNEL COUNT	6	4	10	10	PERSONN	PERSONNEL S.F.		888	

DEPARTMENT SUPPORT	SUPP	ORT P	ROJEC	TIONS	SUPPORT SPACE				
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Work Room	1	0	1	1	Copy / Ptr	10 x 15	150	150	
Break Alcove	1	0	1	1		7 x 10	70	70	
Plotter / Drawing File Storage	1	0	1	1		15 x 15	225	225	
Shop Office	1	0	1	1		10 x 12	120	120	
	***			*			****		
PROJECTED SUPPORT SPACE								565	

	SUB-TOTAL	1,453
	CIRCULATION S.F.	581
TOTAL DEPARTMENT S.F. WITH CIRCULATION	•	2,034

<u>ADJACENCIES</u>
PRIMARY - Directly Adjacent, Most Frequent Interaction:

SECONDARY - Same Floor or Directly Below, Medium Interaction:

ADDITIONAL NOTES:

- 1. Include work room area with Recpetion / Clerical.
- 2. Currently Facilities general storage and shop space totals approx. 5,200 sq. ft. This includes everything from custodial storage, car equipment, welding area, city snow blowers, lawnmowers, wood shop and office furniture. This is all within lower level of PAB. See Building common page for this sq. footage.
- Shop Office with computers that run buildings automations needs to be relocated gets very dirty from shop dust.



DEPARTMENT PROGRAM WORKSHEET POLICE ADMINISTRATION BUILDING DISTRICT 1

DISTRICT 1	PERSO	NNEL I	PROJEC	CTIONS	PERSONNEL SPACE				SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Captain	1	0	1	1	Office	10 x 15	150	150	
Lieutenants	3	0	3	3	WS	8 x 8	64	192	Locate all WS in office, include (4) Security TV monitors
Sergeants	13	0	13	7	WS	6 x 8	48	336	Space for 7, will share desks depending on shifts
DPR	5	0	5	3	WS	6 x 6	36	108	(3) on first shift, (2) on 2nd shift, need privacy
CLO, DA, Specialmen, AGU	13	0	13	13	WS	6 x 8	48	624	Include a dry erase & bulletin boards
Probation / Parole & School Squad	4	0	4	2	WS	6 x 6	36	72	
Crisis Team	2	0	2	2	WS	6 x 6	36	72	
Clerical	8	0	8	8	WS	6 x 6	36	288	
Officers (locate in Assembly / Roll Call Room)	68	0	68	10	Desk	3 x 5	15	150	Include Podium, smart board and plasma
PROJECTED PERSONNEL COUNT	117	0	117	49	PERSONNE	EL S.F.		1,992	

DEPARTMENT SUPPORT	SUPF	ORT P	ROJECT	TIONS	SUPPORT SPACE				
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Clerical Open office (Locate Clerical WS here)	1	0	1	1	Copy / Ptr	12 x 15	180	180	
Break Alcove	1	0	1	1		7 x 10	70	70	
Reception / Waiting	1	0	1	1	Public	10 x 15	150	150	
Assembly / Roll Call Room	1	0	1	1		20 x 25	500	500	
Evidence Packaging	1	0	1	1	Secure	10 x 12	120	120	
Radio Storage	1	0	1	1	Office	2 x 15	30	30	
Lieut / Sergeants lockers	1	0	1	1	Secure	10 x 15	150	150	
Property Storage	1	0	1	1	Secure	8 x 10	80	80	
Locked storage room	1	0	1	1	Secure	8 x 10	80	80	
Conference room	0	1	1	1	Seats 16	15 x 27	405	405	
Single Stall Toilet room	0	1	1	1	Private	7 x 10	70	70	
PROJECTED SUPPORT SPACE								1,765	

S	UB-TOTAL	3,757
C	IRCULATION S.F.	1,503
TOTAL DEPARTMENT S.F. WITH CIRCULATION		5,260

<u>ADJACENCIES</u>											
<u>PRIMARY</u> - Dir	ectly Adjacent, Most Frequent Interaction:										
SECONDARY Interaction: Court Administ	- Same Floor or Directly Below, Medium ration, PPS										
2. Assembly / I board, podium for officers to compare to the compa	NOTES: space for radio storage in Sergeants office Roll Call room to include existing smart plasma, 15' of pin up space, aprox. 10 pc's omplete reports. Currently only have 7 pc's with other disticts.										

- Locked storage room to include weapons cabinet.
- 5. Reception to include seating for minimum of 8, table area for reports, and a telephone.



DEPARTMENT PROGRAM WORKSHEET POLICE ADMINISTRATION BUILDING CIB - GENERAL

CIB - GENERAL	PERSO	NNEL	PROJE	CTIONS	PERSONNEL SPACE				SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Assistant Chief Harpole	1	0	1	1	Office	16 x 22	352	352	
Inspector	1	0	1	1	Office	16 x 18	288	288	
Admin Assistant	1	0	1	1	WS	8 x 10	80	80	Currently in an office due to existing conditions

PROJECTED PERSONNEL COUNT	3	0	3	3	PERSONNEL S.F.		720		

DEPARTMENT SUPPORT	SUPPORT PROJECTIONS			SUPPORT SPACE				
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.
Equipment Area	1	0	1	1		8 x 10	80	80
Break alcove	1	0	1	1	Private	7 x 10	70	70
Conference room	0	1	1	1		12 x 18	216	216
Single Stall Toilet Room	0	1	1	1	Private	7 x 10	70	70
PROJECTED SUPPORT SPACE								436

SUB-TOTAL	1,156
CIRCULATION	S.F . 462
TOTAL DEPARTMENT S.F. WITH CIRCULATION	1,618

<u>ADJACENCIES</u>				
PRIMARY - Directly Adjacent, Most Frequent Interaction: A floor away from CIB departments				
SECONDARY - Same Floor or Directly below, Medium Interaction:				

Assistant Chief Harpole wants to remain with his department rather than be relocated to the 7th floor with the 3 other assistant chiefs.

ADDITIONAL NOTES:



DEPARTMENT PROGRAM WORKSHEET POLICE ADMINISTRATION BUILDING VIOLENT CRIMES DIVISION

VIOLENT CRIMES DIVISION	PERSO	PERSONNEL PROJECTIONS			<u>PE</u>	RSONNEL	SPACE		SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Captains	2	2	4	4	Office	10 x 15	150	600	See additional note #1 below.
Lieutenants	13	0	13	6	W/S	8 x 8	64	384	16 Liets on 5 shifts, share (6) W/S in (1) office,
Detectives	79	0	79	1	W/S	6 x 6	36	2,844	Currently share with all shifts a 3x5 desk, require their own
Officers	1	0	1	1	W/S	6 x 6	36	36	
Clerks	2	0	2	2	W/S	8 x 8	64	128	(2) currently located within interrogation area.
PROJECTED PERSONNEL COUNT	97	2	99	14	PERSONNEL S.F.		3,992		

DEPARTMENT SUPPORT	SUPF	ORT PI	ROJEC	TIONS	SI			
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.
Single Stall Toilet room	1	1	2	2	Internal	8 x 10	80	160
Break Alcove	1	0	1	1	Internal	7 x 10	70	70
Lieutenants Lockers	1	0	1	1	Internal	10 x 10	100	100
Homicide briefing conference room	1	0	1	1	Seat 16	18 x 20	360	360
Quiet room w/ plotter	1	0	1	1	Internal	10 x 15	150	150
Non custodial meeting rooms (1 on 1 meetings)	0	2	2	2	Public	10 x 10	100	200
Non custodial meeting rooms (family meetings)	0	1	1	1	Public	12 x 16	192	192
Interrogation rooms	10	0	10	0	Internal	8 x 8	64	0
Evidence processing room	1	0	1	1	Internal	12 x 30	360	360
Evidence drying room	1	0	1	1	Internal	8 x 30	240	240
Open meeting space in large open office	1	0	1	1	Seat 16-20	16 x 20	320	320
Secured entry way (Like Sensitive Crimes)	1	0	1	1	Public	10 x 10	100	100
PROJECTED SUPPORT SPACE								2,252

	SUB-TOTAL	6,244
	CIRCULATION S.F.	2,498
TOTAL DEPARTMENT S.F. WITH CIRCULATION		8,742

<u>ADJACENCIES</u>								
PRIMARY - Directly Adjacent, Most Frequent Interaction: -								
SECONDARY - Same Floor or Directly below, medium Interaction: Neighborhood Investigation, Cold Case								
ADDITIONAL NOTES: 1. Per Liet. Stigler will be dividing Detectives into (3) groups - South, Central and North so each will have a Cpt., Liets., (1) Clerk 2. Radios located within the Lieutenants office. 3. Verify if bomb storage can be relocated.								

Homicide conf rm to retain plasma & white boards.
 Detectives open office will need to include 3 plasmas and (1) podium for roll call. Verify if (3) individual podiums

New non custodial meeting rooms to be set up with residential type furniture for private meetings for families.
 Interrogation rooms all require video cameras and hand.

will be needed for all 3 sections.

cuff rings.



DEPARTMENT PROGRAM WORKSHEET POLICE ADMINISTRATION BUILDING **NEIGHBORHOOD INVESTIGATIONS DIVISION**

NEIGHBORHOOD INVESTIGATIONS DIVISION	PERSONNEL PROJECTIONS				PERSONNEL SPACE				SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Captain	1	0	1	1	Office	10 x 15	150	150	
Lieutenants	5	0	5	5	WS	8 x 8	64	320	Locate all in one office
Detectives	40	0	40	40	WS	6 x 6	36	1,440	
Sergeants	2	0	2	2	WS	6 x 8	48	96	
Officers	3	0	3	3	WS	6 x 6	36	108	
PROJECTED PERSONNEL COUNT	51	0	51	51	PERSONNEL S.F.		2,114		

DEPARTMENT SUPPORT	SUPPORT PROJECTIONS				SUPPORT SPACE			
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.
Work Room	1	0	1	1	Shared	10 x 15	150	150
Receptionist / Waiting	0	1	1	1		10 x 10	100	100
General File area	1	0	1	1	Common	15 x 17	255	255
Break alcove	1	0	1	1	Common	7 x 10	70	70
Interview room	1	0	1	1	Shared	10 x 10	100	100
Lieutenants Lockers	0	1	1	1	Private	10 x 10	100	100
	***************************************			***************************************		**************************************	***************************************	
PROJECTED SUPPORT SPACE								775

<u>ADJACENCIES</u>
PRIMARY - Directly Adjacent, Most Frequent Interaction:
SECONDARY - Same Floor or Directly below, Medium Interaction:
ADDITIONAL NOTES: 1. Break alcove can be shared with another CIB division that will be located adjacent to NID. 2. Store all forms and paperwork currently sitting out in open

3. Could share interview room with another CIB division

office within general file room.

located adjacent.

	SUB-TOTAL	2,889
	CIRCULATION S.F.	1,150
TOTAL DEPARTMENT S.F. WITH CIRCULATION		4,04



DEPARTMENT PROGRAM WORKSHEET POLICE ADMINISTRATION BUILDING INVESTIGATIVE MANAGEMENT DIVISION

INVESTIGATIVE MANAGEMENT DIVISION	PERSONNEL PROJECTIONS				<u>P</u>	ERSONNE	L SPAC	<u>E</u>	SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Captain	1	0	1	1	Office	10 x 15	150	150	
Lieutenants	2	0	2	2	WS	8 x 8	64	128	
Supervisor	1	0	1	1	WS	6 x 6	36	36	
Assistants	19	0	19	19	WS	6 x 6	36	684	
Transcriptionists / Clerks	0	6	6	6	WS	6 x 8	48	288	
Aids	7	0	7	7	WS	6 x 6	36	252	
PROJECTED PERSONNEL COUNT	30	6	36	36	PERSONNEL S.F.		1,538		

DEPARTMENT SUPPORT	SUPF	ORT P	ROJEC	TIONS				
Room Description		2015	Total	Design	Space Type	Size	S.F.	Total S.F.
Work area	1	0	1	1	Copy / Ptr	10 x 10	100	100
Secure Receptionist area	0	1	1	1		10 x 13	130	130
General File area	1	0	1	1	Common	10 x 15	150	150
Break Alcove	1	0	1	1	Shared	7 x 10	70	70
					1			
PROJECTED SUPPORT SPACE								450

<u>ADJACENCIES</u>
PRIMARY - Directly Adjacent, Most Frequent Interaction:
SECONDARY - Same Floor or Directly below, Medium Interaction:
ADDITIONAL NOTES: 1. Break alcove and interview room could be shared with

SUB-TOTAL	1,98
CIRCULATION S.F.	79
TOTAL DEPARTMENT S.F. WITH CIRCULATION	2,783

988				
795				

another CIB division that will be located adjacent.





TOTAL DEPARTMENT S.F. WITH CIRCULATION

INTELLIGENCE FUSION CENTER	PERSC	NNEL	PROJE	CTIONS	P	ERSONNE	L SPAC	<u>E</u>	SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Captain (Rowe)	1	0	1	1	Office	10 x 15	150	150	
Lieutenants	2	0	2	2	WS	8 x 8	64	128	
Detectives - Investigative Task Force Ops room	6	6	12	12	WS	3 x 4	12	144	Must be in own room
Detectives - Real Time Unit	8	8	16	16	WS	3 x 4	12	192	
Sergeants - @ Real Time stations	1	1	2	2	WS	6 x 6	36	72	
Deputy Director - Crime Analysis Area	1	0	1	1	WS	6 x 6	36	36	
Crime Analysis Area	3	3	6	6	WS	3 x 4	12	72	
Health & Fire	0	2	2	2	WS	6 x 6	36	72	
Real Time Unit - Control Desk	1	0	1	1	WS	3 x 7	21	21	
Financial Crimes Task Force	5	2	7	7	WS	6 x 6	36	252	IRS Group
Analyst	0	1	1	1	WS	6 x 6	36	36	
Admin Assistants	4	0	4	4	WS	6 x 6	36	144	
Investigator	2	0	2	2	WS	6 x 6	36	72	
Aid	2	0	2	2	WS	6 x 6	36	72	
PROJECTED PERSONNEL COUNT	36	23	59	59	PERSONN	EL S.F.	•	1,463	

<u>DEPARTMENT SUPPORT</u>	SUPF	<u>'ORTP</u>	<u>ROJEC</u>	HONS		SUPPORT	SPACE	
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.
Equipment area	0	1	1	1	Copy / Ptr	5 x 15	75	75
Secure Public Receptionist area w/ seating	0	1	1	1		12 x 15	180	180
General Employee entry w/ coat closet	0	1	1	1	Common	10 x 10	100	100
Break Alcove	0	1	1	1	Shared	7 x 10	70	70
SKIF Room (Additional HVAC & power requirements)	0	1	1	1	Secure	10 x 16	160	160
Conference room (LCD, SB, Power in floor)	0	1	1	1		16 x 22	352	352
Plasma Wall / w rear projection room	0	1	1	1		15 x 30	450	450
Lieutenant Locker room	0	1	1	1	Private	10 x 10	100	100
PROJECTED SUPPORT SPACE								1,487

SUB-TOTAL	2,950
CIRCULATION S.F.	1,180
	4,130

ADJACENCIES

PRIMARY - Directly Adjacent, Most Frequent Interaction:

<u>SECONDARY</u> - Same Floor or Directly below, Medium Interaction:

High Tech Crime Unit

ADDITIONAL NOTES:

- 1. All information reflects plans for new Fusion Center.
- SKIF must include secured continually changing combination entry into server room. Clarify what special HVAC requirements are needed.
- Media wall will require (3) Smart boards and (6) LCD screens
- 4. Additional equipment is a plotter, copier, (2) FS ptrs, (2) fax machines, (2) desk ptrs, a shredder and a scanner.





TOTAL DEPARTMENT S.F. WITH CIRCULATION

ORGANIZED CRIME DIVISION	PERSO	NNELI	PROJE	CTIONS	P	ERSONNE	L SPAC	<u>E</u>	SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Captain	1	0	1	1	Office	15 x 16	240	240	
Lieutenants	5	0	5	1	WS	20 x 20	400	400	Indicates existing workstation size
Detectives	34	0	34	34	WS	3 x 6	18	612	Indicates existing workstation size
Officers	11	0	11	11	WS	6 x 6	36	396	Indicates existing workstation size
Supervisor	1	0	1	1	WS	6 x 6	36	36	
Admin Assistants	4	0	4	4	WS	6 x 6	36	144	
Investigator	1	0	1	1	WS	6 x 6	36	36	
PROJECTED PERSONNEL COUNT	57	0	57	53	PERSONN	EL S.F.		1,864	

DEPARTMENT SUPPORT	SUPF	ORT P	ROJEC [*]	TIONS	SUPPORT SPACE			
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.
Lockers (Includes 16)	1	0	1	1		9 x 12	108	108
Secure Receptionist area	1	0	1	1		8 x 11	88	88
Records	1	0	1	1	Secure	7 x 23	161	161
Equipment room (radios, surveillance, video equip.)	1	0	1	1	Secure	10 x 14	140	140
Break Alcove (Existing)	2	0	2	2	Shared	10 x 12	120	240
Drug Vault	1	0	1	1	Secure	8 x 10	80	80
Int. Drug Storage(shotgun safe, narcotics)	1	0	1	1	Secure	6 x 8	48	48
Conference	1	0	1	1	Common	17 x 26	442	442
Equipment Alcove	1	0	1	1	Common	12 x 15	180	180
Files, typewriter, printers	1	0	1	1	Common	7 x 17	119	119
Testing Room	1	0	1	1	Secure	12 x 14	168	168
General Storage	1	0	1	1	Secure	6 x 8	48	48
Quiet Room	1	0	1	1	Secure	8 x 10	80	80
PROJECTED SUPPORT SPACE								1,902

CIRCULATION S.F.	1,506
SUB-TOTAL	3,766

<u>ADJACENCIES</u>	
PRIMARY - Directly Adjacent, Most Frequent Interaction:	
SECONDARY - Same Floor or Directly below, Medium Interaction:	
ADDITIONAL NOTES:	
Currently located on 6th floor in newest space in the building. They did note they do not want to move. Testing Room to remain on outside wall. All furniture sizes listed are not shown as new standards.	s

developed by EUA. The furniture in this department is new within the last 3 years and would resued.





TOTAL DEPARTMENT S.F. WITH CIRCULATION

SENSITIVE CRIMES DIVISION	PERSO	ONNEL	PROJE	CTIONS	<u>P</u>	ERSONNE	L SPAC	<u>E</u>	SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Captain	1	0	1	1	Office	10 x 15	150	150	
Lieutenants	4	0	4	4	WS	8 x 8	64	256	
Detectives	20	0	20	20	WS	6 x 6	36	720	
Sergeants	2	0	2	2	WS	6 x 8	48	96	
Officers	32	0	32	32	WS	6 x 6	36	1,152	
Admin Assistants	4	0	4	4	WS	6 x 6	36	144	
Investigator	0	0	0	0	WS	6 x 6	36	0	
Aid	1	0	1	1	WS	6 x 6	36	36	
PROJECTED PERSONNEL COUNT	64	0	64	64	PERSONN	EL S.F.		2,554	

<u>DEPARTMENT SUPPORT</u>	SUPF	ORT P	ROJEC	<u>TIONS</u>		SUPPORT	SPACE	<u>.</u>
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.
Work Area	1	0	1	1	Copy / Ptr	8 x 15	120	120
Secure Receptionist area	1	0	1	1		8 x 10	80	80
Male/ Female Single Stall Toilets (Existing to remain)	2	0	2	2	Common	7 x 10	70	140
Locked Storage	1	0	1	1	Shared	10 x 10	100	100
Break Alcove (Existing to remain)	1	0	1	1	Shared	10 x 12	120	120
Lockers	1	0	1	1	Private	8 x 15	120	120
PROJECTED SUPPORT SPACE								680

294
234

<u>ADJACENCIES</u>
PRIMARY - Directly Adjacent, Most Frequent Interaction:
SECONDARY - Same Floor or Directly below, Medium Interaction:

ADDITIONAL NOTES: 1. Currently located on west end of the 6th

Currently located on west end of the 6th floor and do not want to move.



DEPARTMENT PROGRAM WORKSHEET POLICE ADMINISTRATION BUILDING **LICENSE INVESTIGATION UNIT**

LICENSE INVESTIGATION UNIT	PERSO	NNEL	PROJE	CTIONS	PERSONNEL SPACE				SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Investigating officers - License Division	5	0	5	5	WS	6 x 6	36	180	1 of 5 is a Sergeant, divide off with taller panels
Investigating officers - Noise Division	2	0	2	2	WS	6 x 6	36	72	
PROJECTED PERSONNEL COUNT	7	0	7	7	PERSONNE	EL S.F.		252	

DEPARTMENT SUPPORT	SUPF	ORT PI	ROJEC	TIONS	SUPPORT SPACE			
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.
Equip. area (ptrs, 3 typewriters, fax	1	0	1	1	Shared	10 x 10	100	100
File area	1	0	1	1	Shared	10 x 10	100	100
Break Alcove	1	0	1	1	Shared	7 x 10	70	70
	***		*******		***************************************			
	***					****	Name of the Control o	
PROJECTED SUPPORT SPACE								270

<u>ADJACENCIES</u>								
PRIMARY - Directly Adjacent, Most Frequent Interaction:								
SECONDARY - Same Floor or directly below, Medium Interaction: Identification Section								
ADDITIONAL NOTES: 1. Unable to determine future growth, however did comment that if civilian gun law is passed more staff would need to be added, totals were unknown.								

SUB-TOTAL	522
CIRCULATION S.F.	209
TOTAL DEPARTMENT S.F. WITH CIRCULATION	731



DEPARTMENT PROGRAM WORKSHEET POLICE ADMINISTRATION BUILDING HIGH TECH UNIT

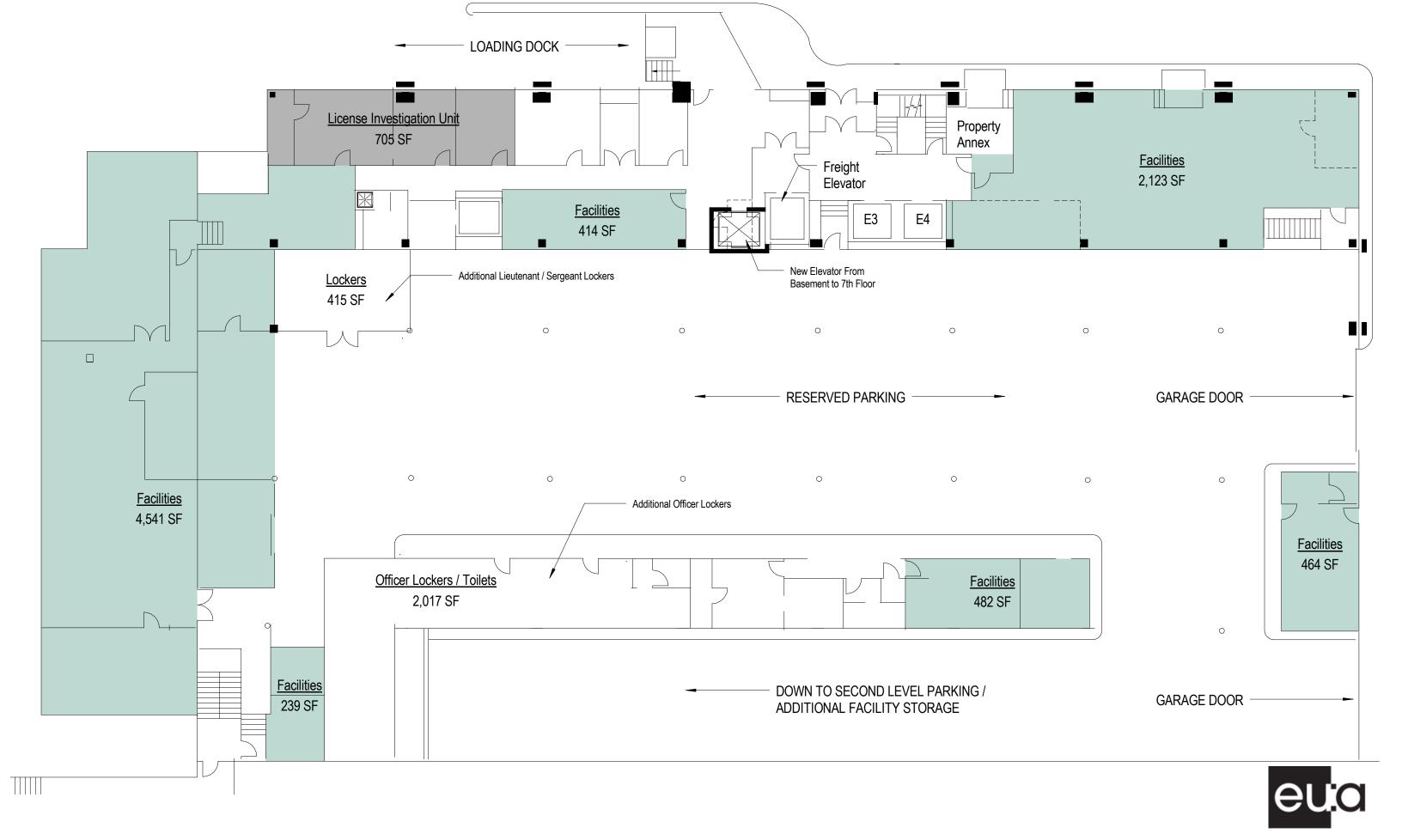
HIGH TECH UNIT	PERSO	ONNEL	PROJE	CTIONS	PERSONNEL SPACE				SPECIAL REQUIREMENTS
Staff Position or Title	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.	
Detectives	4	1	5	5	WS	6 x 6	36	180	All require dual monitors
PROJECTED PERSONNEL COUNT	4	1	_	_	PERSONNE	=	<u> </u>	400	
PROJECTED PERSONNEL COUNT	4	1	5	5	PERSONNE	EL 5.F.		180	

DEPARTMENT SUPPORT	SUPF	ORT PI	ROJEC	TIONS	3			
Room Description	2010	2015	Total	Design	Space Type	Size	S.F.	Total S.F.
Equip. area	1	0	1	1	Shared	10 x 10	100	100
File area	1	0	1	1	Shared	10 x 10	100	100
Break Alcove	1	0	1	1	Shared	7 x 10	70	70
Computer Lab	1	0	1	1	Secure	20 x 25	500	500
Computer Lab Storage	1	0	1	1	Secure	10 x 18	180	180
PROJECTED SUPPORT SPACE								950

ADJACENCIES
PRIMARY - Directly Adjacent, Most Frequent Interaction:
- Directly Adjacent, Most Frequent Interaction.
SECONDARY - Same Floor or directly below, Medium
Interaction:
Fusion Center
ADDITIONAL NOTES:
1. Captain Rowe noted this group can remain separate from
IFC but if space allows for it, locate both groups together.
If Computer lab moves special HVAC is required for
server. Electrical strips must run entire perimeter of room at

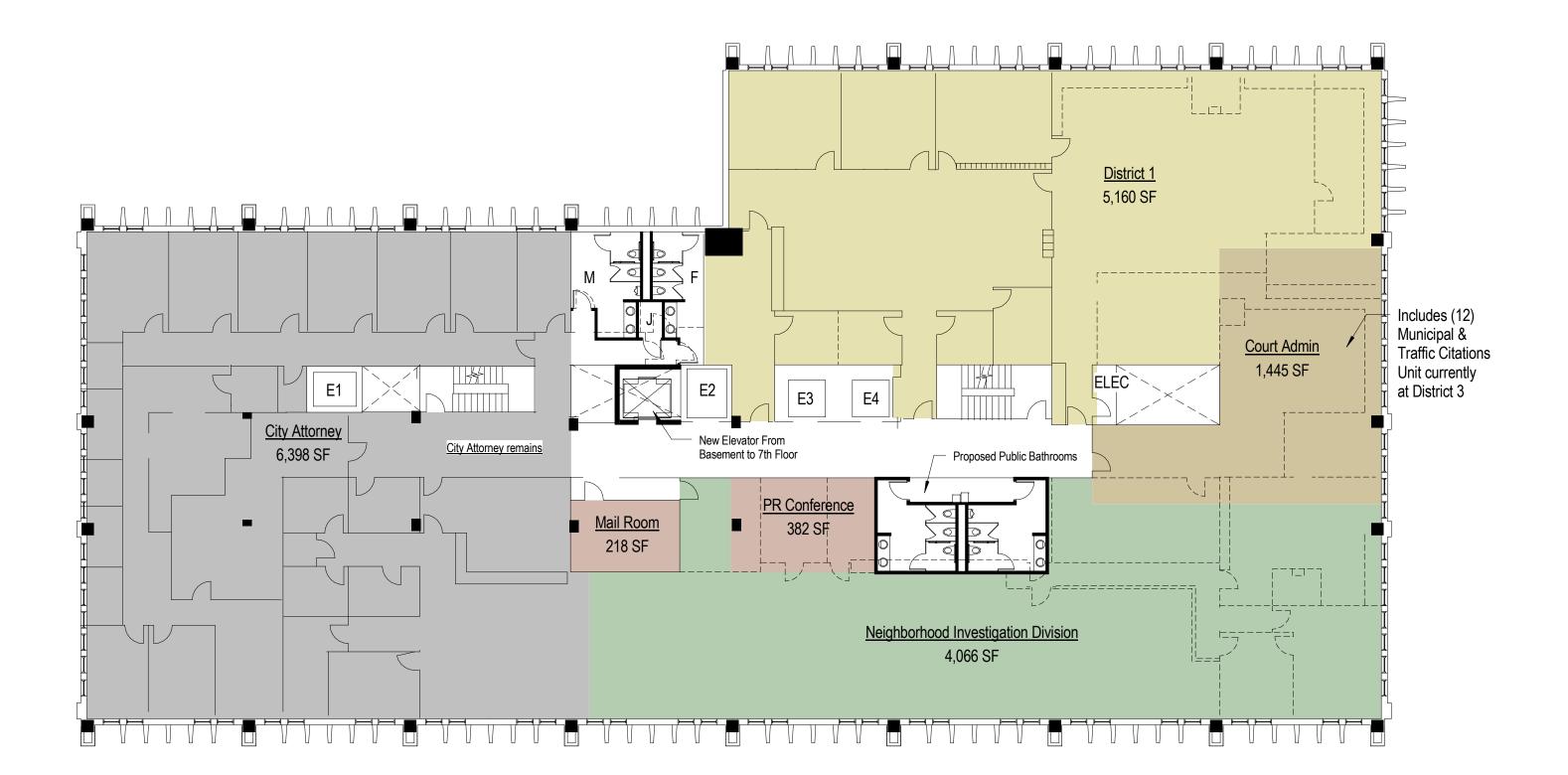
worksurface height.

SUB-TOTAL	1,130
CIRCULATION S.F.	452
TOTAL DEPARTMENT S.F. WITH CIRCULATION	1,582



POLICE ADMINISTRATION BUILDING - MASTER PLANNING

eppstein uhen : architects

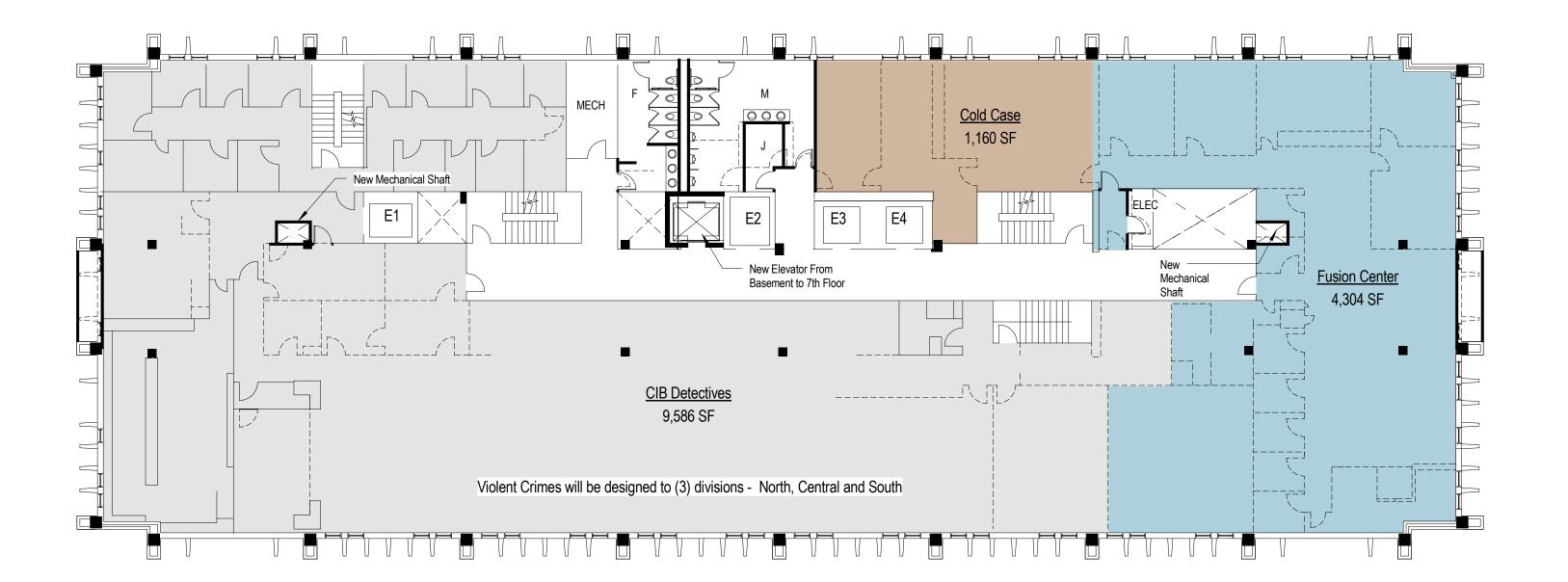




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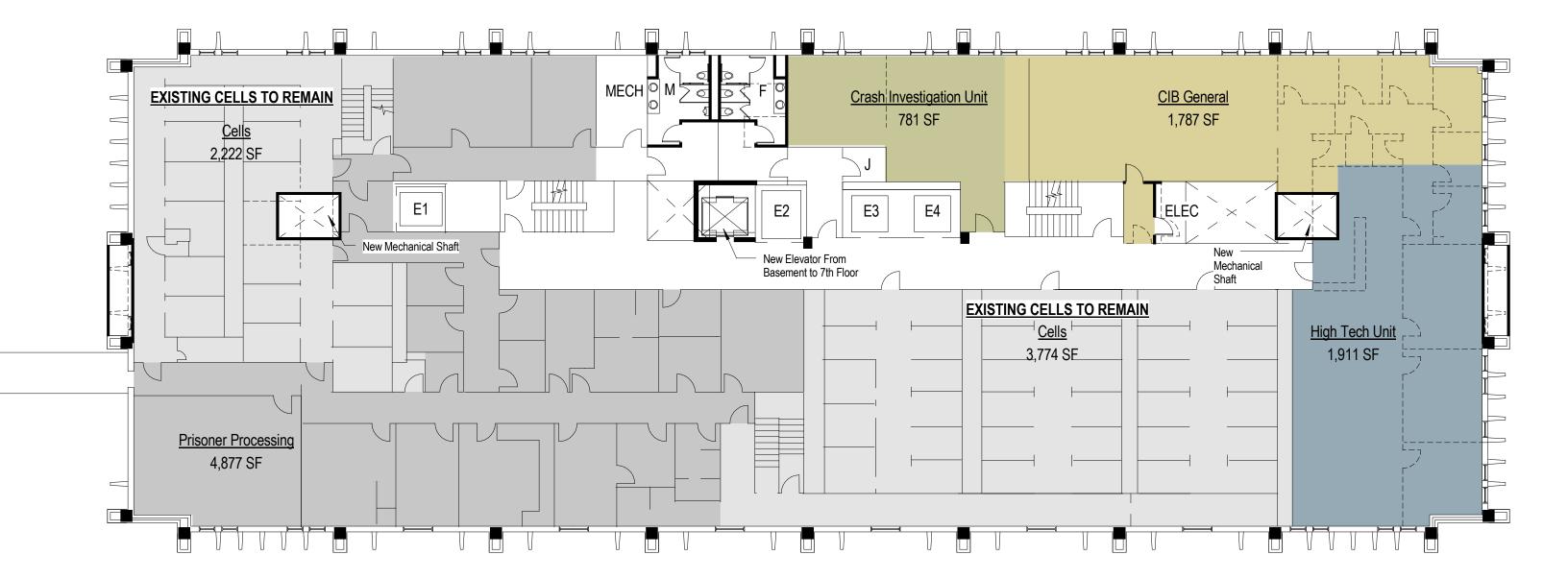




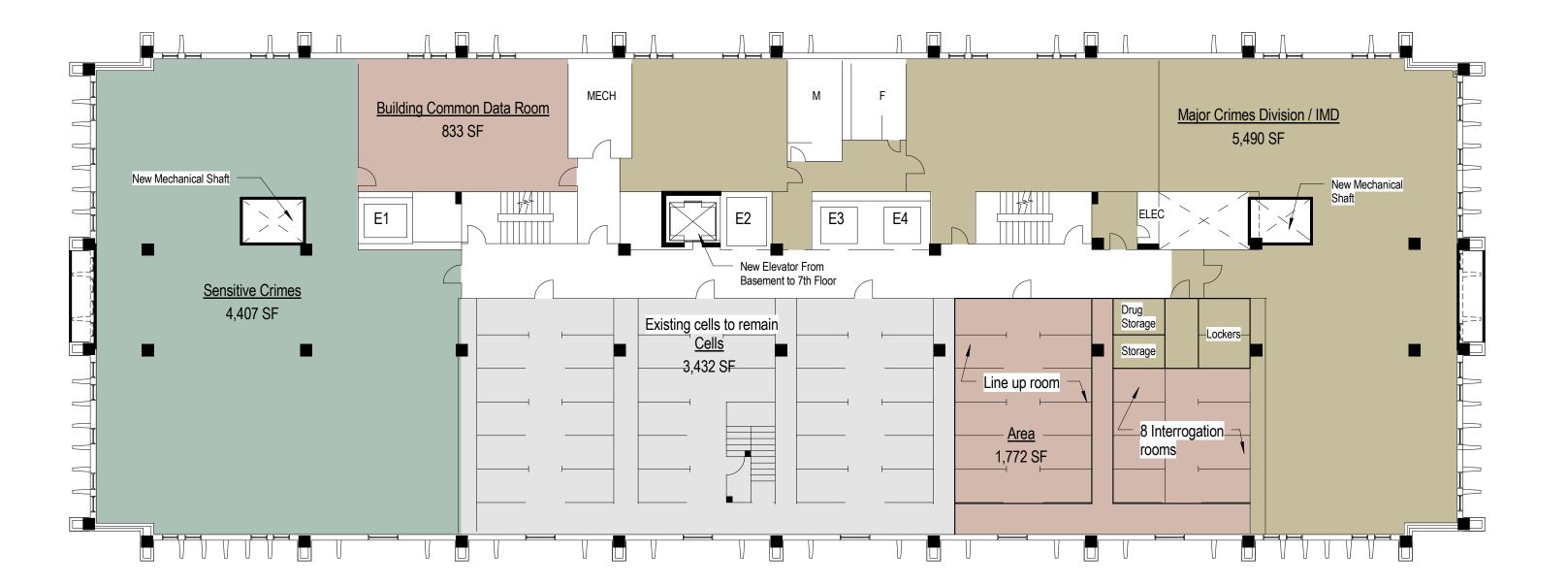




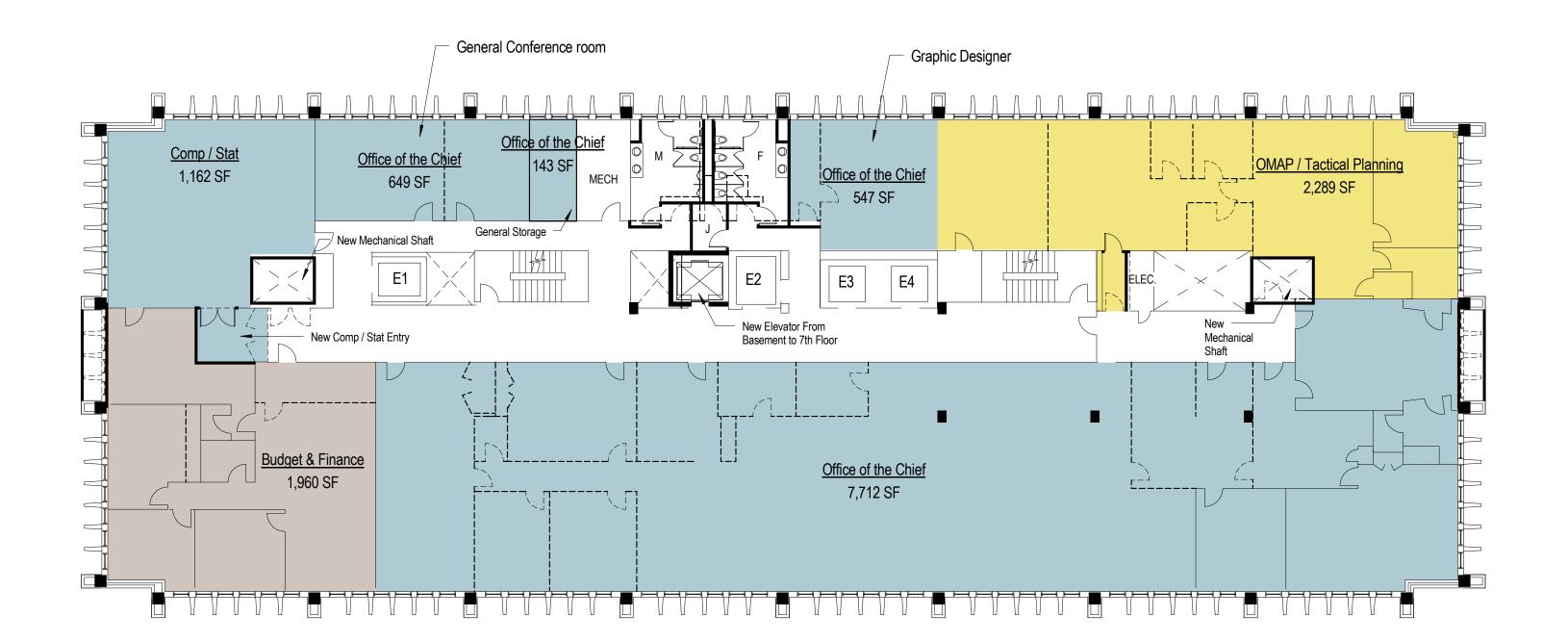
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eppstein uhen : architects

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2011-2016 Capital Improvements Plan (DRAFT)

	2010 ADOPTED BUDGET	2011 REQUESTED BUDGET	2012 PROJECTED BUDGET	2013 PROJECTED BUDGET	2014 PROJECTED BUDGET	2015 PROJECTED BUDGET	2016 PROJECTED BUDGET	TOTAL 2011-16 SIX YEAR DRAFT PLAN
DPW ADMINISTRATIVE SERVICES DIVISION		A STATE OF THE STA	地方的各世长		7 3 17 4 2 2 7		Y 5 4 Y 5 10	
Public Safety Communications	\$500,000	\$625,000	\$625,000	\$625,000	\$625,000	\$625,000	\$625,000	\$3,750,000
TOTAL DPW ADMINISTRATIVE SERVICES DIVISION	\$500,000	\$625,000	\$625,000	\$625,000	\$625,000	\$625,000	\$625,000	\$3,750,000
DPW OPERATIONS DIVISION		**			16. 16. 28	1995年,1997年	建设工程	
Environmental Headquarters Modifications	\$0	\$2,800,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$7,800,000
Industrial Road Facility Relocation	-	1,700,000	5,100,000	-	-	-	_	6,800,000
Self Help Scales	-	530,000						530,000
Concealed Irrigation and General Landscaping City Boulevards	462,879	460,000	750,000	750,000	750,000	750,000	750,000	4,210,000
Planting Trees Shrubs and Evergreens (Paving) Various Sites	1,741,125	2,300,000	2,077,500	2,077,500	2,077,500	2,077,500	2,077,500	12,687,500
Boulevard Plan	580,000	-	-	-	-	- ,	-	•
Emerald Ash Borer Readiness & Response	937,000	830,000	850,000	850,000	850,000	850,000	850,000	5,080,000
Major Capital Equipment (\$50,000 or More)	5,500,000	12,982,000	11,949,350	11,651,925	13,206,950	14,108,540	13,776,150	77,674,915
Two-Way Radio Replacement	-	450,000	452,300			-	_	902,300
TOTAL DPW OPERATIONS DIVISION	9,221,004	22,052,000	22,179,150	16,329,425	17,884,450	18,786,040	18,453,650	115,684,715
DPW INFRASTRUCTURE SERVICES DIVISION	Ber (4 147.5 %	\$1.29 P. S.	AND A CASTO	Ap 1			医额皮 对新 多一页	12 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
Underground Conduit and Manholes	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$6,000,000
Major Bridge Program - State & Feder Aided	500,000	6,354,000	1,237,000	1,740,000	1,825,000	1,910,000	2,005,000	15,071,000
************Grants & Aids*********	-	23,116,000	7,003,000	7,400,000	7,400,000	7,400,000	7,400,000	59,719,000
Major Bridge Program - Local	6,425,000	200,000	6,275,000	6,700,000	7,975,000	8,550,000	8,275,000	37,975,000
Street Improvements City Portion of State and/or Federal Aided Projects	4,730,000	8,314,100	7,487,630	5,197,100	5,557,685	5,060,200	4,460,000	36,076,715
*********Special Assessments*********	194,000	100,000	884,000	730,900	1,380,200	1,589,200	1,265,000	5,949,300
***********Grants & Aids**********	10,936,200	51,505,230	32,558,940	20,539,700	19,161,590	22,024,600	17,740,000	163,530,060
New Street Construction	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000
***********Special Assessments*********	50,000	50,000	150,000	150,000	150,000	150,000	150,000	800,000
Street Reconstruction and Resurface	12,000,000	15,300,000	13,300,000	15,300,000	13,300,000	15,300,000	13,300,000	85,800,000
***********Special Assessments*********	1,000	100	100	100	700,000	700,000	700,000	2,100,300
Alley Reconstruction and Resurface	800,000	1,500,000	1,800,000	2,100,000	2,100,000	2,100,000	2,100,000	11,700,000
************Special Assessments********	200,000	1,000,000	1,200,000	1,400,000	1,400,000	1,400,000	1,400,000	7,800,000
Sidewalk Replacement Program (Contract and Scattered Sites)	900,000	1,190,000	1,250,000	1,320,000	1,380,000	1,450,000	1,530,000	8,120,000
************Special Assessments*********	325,000	410,000	450,000	480,000	520,000	550,000	570,000	2,980,000
New Streets Developer	400,000	-	400,000	400,000	400,000	400,000	400,000	2,000,000
Street Lighting Program Citywide	7,000,000	7,500,000	8,750,000	9,150,000	9,550,000	9,550,000	9,200,000	53,700,000
Traffic Control Facilities Citywide	1,182,500	2,366,000	2,316,000	2,370,000	2,374,500	2,032,000	1,865,000	13,323,500
Underground Electrical Manholes (Communications, Traffic Control, Street Lighting) Reconstruction Program	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000

1 of 3 3/19/2010

2011-2016 Capital Improvements Plan (DRAFT)

	2010 ADOPTED BUDGET	2011 REQUESTED BUDGET	2012 PROJECTED BUDGET	2013 PROJECTED BUDGET	2014 PROJECTED BUDGET	2015 PROJECTED BUDGET	2016 PROJECTED BUDGET	TOTAL 2011-16 SIX YEAR DRAFT PLAN
City Hall Hollow Walk Structural Repairs	\$2,700,000	\$4,500,000	\$4,500,000	\$0	\$0	\$0	\$0	\$9,000,000
MacArthur Square Plaza Remediation	-	247,000	251,000	255,000	259,000	263,000	267,000	1,542,000
Environmental Remediation Program	100,000	260,000	319,000	324,000	329,000	334,000	339,000	1,905,000
ADA Compliance Program	95,000	307,200	190,000	190,000	295,400	295,400	374,000	1,652,000
Facilities Exterior Program	1,409,700	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	7,200,000
City Hall Complex Remodeling	80,000	50,000	138,000	1,804,000	3,223,000	3,577,000	3,577,000	12,369,000
Municipal Garages/Outlying Facilities Remodeling	295,000	1,700,000	1,500,000	500,000	500,000	500,000	1,500,000	6,200,000
Facilities Systems Program	685,000	1,020,000	2,800,000	2,800,000	2,800,000	2,800,000	2,800,000	15,020,000
Recreational Facilities Program	388,240	489,500	500,000	500,000	500,000	500,000	500,000	2,989,500
Space Planning Alterations and Engineering	160,000	166,000	172,000	178,000	184,000	190,000	196,000	1,086,000
ZMB Lower Parking Floor Restoration	86,500	1,530,000			<u> </u>			1,530,000
Energy Efficiency & Renewable Energy Initiative Program		1,100,000	800,000	850,000	900,000	950,000	1,000,000	5,600,000
Building Exterior Façade Restoration		385,400	584,900	521,300	494,600	173,100	-	2,159,300
IT Equipment Room Compliance Program		150,000	250,000	50,000				450,000
*********Total Grants & Aids************************************	\$10,936,200	\$74,621,230	\$39,561,940	\$27,939,700	\$26,561,590	\$29,424,600	\$25,140,000	\$223,249,060
*********Total Special Assessments********	770,000	1,560,100	2,684,100	2,761,000	4,150,200	4,389,200	4,085,000	\$19,629,600
Total City Funding (incl. Special Assessment)	\$42,106,940	\$58,789,300	\$60,104,630	\$57,610,400	\$60,697,385	\$62,923,900	\$60,373,000	\$360,498,615
TOTAL DPW INFRASTRUCTURE SERVICES DIVISION	\$53,043,140	\$133,410,530	\$99,666,570	\$85,550,100	\$87,258,975	\$92,348,500	\$85,513,000	\$583,747,675
GRAND TOTAL DPW GRANTS & AIDS	\$10,936,200	\$74,621,230	\$39,561,940	\$27,939,700	\$26,561,590	\$29,424,600	\$25,140,000	\$223,249,060
GRAND TOTAL DPW CITY FUNDING	\$51,827,944	\$81,466,300	\$82,908,780	\$74,564,825	\$79,206,835	\$82,334,940	\$79,451,650	\$479,933,330
GRAND TOTAL DEPARTMENT OF PUBLIC WORKS	\$62,764,144	\$156,087,530	\$122,470,720	\$102,504,525	\$105,768,425	\$111,759,540	\$104,591,650	\$703,182,390
PARKING FUND							No.	5 的 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1000 North Water Parking Structure Repairs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MacArthur Square Parking Structure Repairs	-	-	-	-	415,000	-	760,000	1,175,000
Parking Facility Maintenance	400,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000
Multi-Space Meters	•	600,000	-	-	-	-	-	600,000
Milwaukee/Michigan Parking Structure Repairs	-	-	-	440,000	440,000	-	-	880,000
Fourth and Highland Parking Structure Repairs	550,000	-	-	500,000	-	310,000	125,000	935,000
Second and Plankinton Parking Structure Repairs	-	325,000	540,000	-	-	465,000	-	1,330,000
TOTAL PARKING FUND	\$950,000	\$1,175,000	\$790,000	\$1,190,000	\$1,105,000	\$1,025,000	\$1,135,000	\$6,420,000
DPW WATER WORKS		104 P. P. 10 15 W.	145 1					
Distribution System	\$15,000,000	\$14,370,000	\$16,500,000	\$17,000,000	\$17,800,000	\$18,600,000	\$19,400,000	\$103,670,000
Distribution System - Assessable	100,000	100,000	100,000	100,000	100,000	100,000	100,000	600,000
Development Out-of-Program Agreement Various Locations	300,000	300,000	300,000	300,000	300,000	300,000	300,000	1,800,000
Feeder Main Program	-	2,750,000	1,140,000	1,160,000	1,180,000	1,200,000	1,220,000	8,650,000

2 of 3 3/19/2010

2011-2016 Capital Improvements Plan (DRAFT)

2011-2010 Capital Improvements (lan (DICAL)										
	2010 ADOPTED BUDGET	2011 REQUESTED BUDGET	2012 PROJECTED BUDGET	2013 PROJECTED BUDGET	2014 PROJECTED BUDGET	2015 PROJECTED BUDGET	2016 PROJECTED BUDGET	TOTAL 2011-16 SIX YEAR DRAFT PLAN		
Linwood Plant Building Improvements	-	1,520,000	1,250,000	810,000	150,000	150,000	1,000,000	4,880,000		
Linwood Plant Treatment Improvements	350,000	1,275,000	1,775,000	6,030,000	4,800,000	2,500,000	1,500,000	17,880,000		
Howard Plant Building Improvements	-	600,000	200,000	550,000	200,000	250,000	300,000	2,100,000		
Howard Plant Treatment Improvements	130,000	950,000	700,000	1,300,000	1,000,000	1,000,000	1,800,000	6,750,000		
Pump Facilities Improvements	3,600,000	2,050,000	2,150,000	3,100,000	900,000	500,000	2,500,000	11,200,000		
Storage Facilities Improvements	100,000	300,000	2,700,000	200,000	2,000,000	3,000,000	6,000,000	14,200,000		
Meter Shop Improvements	-	150,000	-	3,000,000	-	-	-	3,150,000		
Backup Power Generation	450,000	-	4,700,000	1,300,000	6,000,000	-	-	12,000,000		
Capital Project Contingencies	-	-	1,000,000	-	2,000,000	-	2,000,000	5,000,000		
TOTAL DPW WATER WORKS	\$20,030,000	\$24,365,000	\$32,515,000	\$34,850,000	\$36,430,000	\$27,600,000	\$36,120,000	\$191,880,000		
DPW SEWER MAINTENANCE FUND		and the second					A.			
Sewer Relief & Relay Program	\$15,162,000	\$29,000,000	\$30,000,000	\$31,000,000	\$31,000,000	\$32,000,000	\$33,000,000	\$186,000,000		
Storm Water Quality Projects	1,925,000	2,000,000	2,000,000	2,000,000	-	-		6,000,000		
*********Grants & Aids********	-	-	-	-	-	-		-		
Pump Facility Projects	500,000	1,000,000	1,000,000	1,000,000	500,000	500,000	500,000	4,500,000		
SCADA Upgrade Project	-	-	-		-	-	-	-		
I&I Reduction Projects	6,350,000	6,370,000	4,890,000	4,900,000	3,000,000	3,000,000	3,000,000	25,160,000		
***********Total Grants & Aids********	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Total City Funding	\$23,937,000	\$38,370,000	\$37,890,000	\$38,900,000	\$34,500,000	\$35,500,000	\$36,500,000	\$221,660,000		
TOTAL DPW SEWER MAINTENANCE FUND	\$23,937,000	\$38,370,000	\$37,890,000	\$38,900,000	\$34,500,000	\$35,500,000	\$36,500,000	\$221,660,000		

3 of 3 3/19/2010

4 ...

	2011 REQUESTED BUDGET
DPW ADMINISTRATIVE SERVICES DIVISION	$\mathcal{F}_{\mathcal{F}_{\mathcal{F}_{\mathcal{F}_{\mathcal{F}}}}}$ by $\mathcal{F}_{\mathcal{F}}}}}}}}}}$
Public Safety Communications	
Paving Projects	60,500
Telephone System Upgrades	79,500
General Engineering	50,000
Copper and Fiber Projects	435,000
Total	625,000
TOTAL	020,000
TOTAL DPW ADMINISTRATIVE SERVICES DIVISION	625,000
DPW OPERATIONS DIVISION	1 1987
Environmental Headquarters Modifications - Consolidate Forestry Yard at 21st and Holt and San yard at 35th and Hayes at Renovated Former Water Works Facility at 37th and Lincoln	2,800,000
Industrial Road Facility Relocation - new site acquisition, planning and design	1,700,000
Self Help Scales - Entry and Exit Scales at City's two Self Help Centers	530,000
Concealed Irrigation and General Landscaping City Boulevards	460,000
Planting Trees Shrubs and Evergreens (Paving) Various Sites - 211 replacement trees due to street construction, 3,244 replacement of dead or diseased trees, 2,450 new trees for Sustainable Boulevard Program.	2,300,000
Boulevard Plan -	
Emerald Ash Borer Readiness & Response - Inoculate half of City's 33,000 ash trees annually.	830,000
Major Capital Equipment (\$50,000 or More)	1
Backhoe/Loader 3 @ \$110,000 ea.	330,000
Sweeper 3 @ \$170,000 ea.	510,000
Tractor Light, Multi-Purpose 6 @ \$85,000 ea.	510,000
Tractor, Front-End Wheel Loader 5 @ \$125,000 ea.	625,000
Tractor, Trencher w/Breaker, Trailer 1 @ \$60,000 ea.	60,000
Truck, Aerial, 36 Ft. Step Van Body 2 @ \$160.000 ea.	320,000
Truck, Aerial, 36 Ft. Utility Body 1 @ \$160,000 ea. Truck, Aerial, 50 Ft. Utility Body 1 @ \$165,000	160,000 165,000
Truck, Aerial, 50 Ft. Othity Body 1 @ \$165,000 Truck, Aerial, 50 Ft., Chip Box 1 @ \$165,000	165,000
Truck, Digger-Derrick 1 @ \$200,000 ea.	200,000
Truck, Dump, 16 Yard Tri-Axle 5 @ \$700,000 ea.	700,000
Truck, Dump, 2 Yard w/Compressor 2 @ \$220,000 ea.	220,000
Truck, Dump, 5 Yard 4 @ \$110,000 ea.	440,000
Truck, Dump, 5 Yard w/Underbody Plow 8 @ \$160,000 ea.	1,280,000
Truck, Dump, 5 Yard, Crew Cab 2@ \$95,000 ea.	190,000
Truck, Log Loader 1 @ \$180,000 ea.	180,000
Truck, Packer, 20 Yard Container 2 @ \$130,000 ea.	260,000
Truck, Packer, 25 Yard Rearload 8 @ \$260,000 ea.	2,080,000
Truck, Packer, 25 Yard w/Ramp Lift Arm 3 @ \$265,000	795,000
Truck, Packer, 25 Yard Recycle 7 @ \$260,000 ea.	1,820,000
Truck, Packer, 31 Yard Top Load 2 @ \$240,000 ea.	480,000
Truck, Pickup, Utility 8 @ \$54,000 ea.	432,000
Truck, Platform/Compressor/Salter/Plow 3 @ \$80,000 ea.	240,000
Truck, Roll-Off 4 @ \$160,000 ea.	640,000
Truck, Step Van 2 @ \$180,000 ea.	180,000
Total	12,982,000
	450,000
Two-Way Radio Replacement	400,000

	2011
	REQUESTED
	BUDGET
DPW INFRASTRUCTURE SERVICES DIVISION	
Underground Conduit and Manholes	1,000,000
Major Bridge Program - State & Feder Aided	6,354,000
*******Grants & Aids*******	23,116,000
Major Bridge Program - Local	200,000
Street Improvements City Portion of State and/or Federal Aided Projects	8,314,100
*******Special Assessments*******	100,000
**********Grants & Aids********	51,505,230
New Street Construction	200,000
********Special Assessments*******	50,000
Street Reconstruction and Resurface	15,300,000
********Special Assessments*******	100
Alley Reconstruction and Resurface	1,500,000
********Special Assessments*******	1,000,000
Sidewalk Replacement Program (Contract and Scattered Sites)	1,190,000
*******Special Assessments*******	410,000
New Streets Developer	•
Street Lighting Program Citywide	7,500,000
Traffic Control Facilities Citywide	2,366,000
Underground Electrical Manholes Reconstruction Program	200,000
City Hall Hollow Walk Structural Repairs	4,500,000
MacArthur Square Plaza Remediation	247,000
Environmental Remediation Program	
Asbestos Abatement-Hazardous Waste	75,000
Soil and Groundwater Remediation	75,000
CRG Curb and Gutter SWPP	110,000
Total	260,000
ADA Compliance Program(City Hall 8th Floor Restrooms)	307,200
Facilities Exterior Program	
Reroofing Central Repair Garage Heavy Side	823,400
Reroofing Anderson Tower Municipal Building	176,600
Various Sites-Emergency Repairs	200,000
Total	1,200,000
City Hall Complex Remodeling(City Hall Complex Carpet Replacement-Various)	50,000
Municipal Garages/Outlying Facilities Remodeling	1,700,000
Facilities Systems Program	
City Hall Complex - Annual Electrical Switchgear Maint and Repair	60,000
City Hall - Electrical Distribution and Code Compliance - Phase 3	250,000
Zeidler Municipal Building - Emergency Egress Lighting	210,000
Various Sites - Block Heater Repairs	30,000
Various Sites - CCTV and Access Control Upgrades	140,000
Various Sites - Emergency Mechanical Repairs	150,000
Various Sites - Emergency Electrical Repairs	100,000
809 Building - 4th Floor ERS Electrical Upgrades	80,000
Total	1,020,000
Recreational Facilities Program	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Allis Street - Equipment Upgrade	97,000
31st & Lloyd - Reconstruction ADA	79,000
	113,000
Columbia - Playground Reconstruction	113,000

•	2011
	REQUESTED
	BUDGET
Auer Avenue - Basketball Court Reconstruction	123,000
Various Sites - Non Programmed	25,000
Engineering	52,500
Total	489,500
Space Planning Alterations and Engineering	166,000
ZMB Lower Parking Floor Restoration	1,530,000
Energy Efficiency & Renewable Energy Initiative Program	1,100,000
Building Exterior Façade Restoration	385,400
IT Equipment Room Compliance Program	150,000
********Total Grants & Aids*******	74,621,230
*******Total Special Assessments*****	1,560,100
Total City Funding (incl. Special Assessment)	58,789,300
TOTAL DPW INFRASTRUCTURE SERVICES DIVISION	133,410,530
GRAND TOTAL DPW GRANTS & AIDS	74,621,230
GRAND TOTAL DPW CITY FUNDING	81,466,300
GRAND TOTAL DEPARTMENT OF PUBLIC WORKS	156,087,530

	2011 REQUESTED BUDGET
PARKING FUND	
1000 North Water Parking Structure Repairs	-
MacArthur Square Parking Structure Repairs	-
Parking Facility Maintenance	250,000
Multi-Space Meters(Install at Marquette University and Mt. Sainai)	600,000
Milwaukee/Michigan Parking Structure Repairs	-
Fourth and Highland Parking Structure Repairs	-
Second and Plankinton Parking Structure Repairs(2012 Slab Reconstruction)	325,000
TOTAL PARKING FUND	1,175,000
DPW WATER WORKS	
Distribution System	14,370,000
Distribution System - Assessable	100,000
Development Out-of-Program Agreement Various Locations	300,000
Feeder Main Program	2,750,000
Linwood Plant Building Improvements	1,520,000
Linwood Plant Treatment Improvements	1,275,000
Howard Plant Building Improvements	600,000
Howard Plant Treatment Improvements	950,000
Pump Facilities Improvements	2,050,000
Storage Facilities Improvements	300,000
Meter Shop Improvements	150,000
Backup Power Generation	-
Capital Project Contingencies	
TOTAL DPW WATER WORKS	24,365,000
DPW SEWER MAINTENANCE FUND	
Sewer Relief & Relay Program	29,000,000
Storm Water Quality Projects	2,000,000
*******Grants & Aids********	-
Pump Facility Projects	1,000,000
SCADA Upgrade Project	-
I&I Reduction Projects	6,370,000
******Total Grants & Aids*******	
Total City Funding	38,370,000
TOTAL DPW SEWER MAINTENANCE FUND	38,370,000

2011 DPW CAPITAL IMPROVEMENT PROJECT/PROGRAM DESCRIPTION

. JND & PROJECT GRANT N	IMRER	DPO ICCT/DPOCDAM TITLE 6 / COATTON
. SIND AT NOVEOT GRANT N	OWINER	PROJECT/PROGRAM TITLE & LOCATION
	SM495110000	SEWER MAINTENACE RELAY PROGRAM AT VARIOUS LOCATIONS THROUGHOUT THE CITY OF MILWAUKEE
DIVISION/ SECTION		
DEPARTMENT OF PUBLIC	WORKS / INFRASTRUCTURE SERVICES	
DATE	PREPARED BY/PHONE	
3/18/2010	MARTIN A. AQUINO / 286-24	62
PROJECT/PROGRAM DESC	RIPTION AND JUSTIFICATION	
neighborhood vitality and is no	a necessary function of City government bec eeded for new growth and development. As er projects are constructed by private contra	ause it is critical to public health and safety, reduces lake and river pollution, preserves an adjunct, the sewer program provides citizen employment and opportunities for enterprising ct.
Sewer Maintenance Relay Procombined, sanitary and storm	ogram construction, as part of the City's infra sewers. There are four categories of projec	structure mainlenance, involves the replacement, and in many cases, the enlargement of existing is in the Sewer Maintenance Relay Program.
Durlding sewers, building footi	ng drains and illegal/illicit sump pump and ro	ditions, unwanted clear water enters the main sewer through cracks and joints in the sewer itself, of drain connections. When the main sewer is filled beyond its capacity (surcharged), the and cause the sewage to back up through the floor drains and flood basements (backwater).
tolerated, it is not acceptable t liability, premium costs paid for	o wait for failure to occur before taking corre	tely maintained. Sewers deteriorate and eventually fail to function. Although certain defects are ctive action. The reasons for taking preventive action are the public health threat, potential nood disruptions and potentially large expenses for removing and replacing appurtenances in
material from which it is consti	ucted (roughness of the surface which chan	er is determined by more than just its physical size. Also contributing to the capacity is the ges over time), the type of flow (sewage contents), the pitch of the sewer (slope) and the capacity hydraulically inadequate, preventive repairs must be performed to prevent surcharged conditions
4. SEWER STRUCTURE COI as backwater or flooding probl	NSTRUCTION AND REHABILITATION: The ems.	se projects will be performed on an as needed basis in response to unanticipated problems such
There are three alternatives to	the Sewer Maintenance Relay Program.	
1. Eliminate the program and a	allow sewage to back up into buildings and o	nto streets creating a health and safety hazard.
2. Eliminate the program and o prior to collapse.	only do emergency repairs where collapses o	ccur. Emergency repairs will require larger amounts of money than if the sewer were repaired
3. Eliminate the program and i	nstall sewage holding tanks for the areas wh	ich had been served by the failed sewer.
None of these alternatives are	considered to be in the best interest of the C	ity.

Capital Improvement Request Form Part I

Pro	Sewer Maintenance Relay at various Project/Program Title: locations in the City of Milwaukee			Requesting Depart	Department of Public Works - Infrastructure Services		
Pre	pared By/Phone Ext:	Martin A. Aquino 286-2462		Department Head Signature:			
A	ount No:	SM495110000			-		
A)	Department Priority	ofUsef	ful Life 90	Years Level of N	leed 🗸 Essential	☐ Important ☐ Desired	
		New Replacement COn-Going Program	Repair	Project/Program So	ope 🗸 Fully Defin	ed Partially Defined	
В)	Miscellaneous Deve	Alleys	Bridge [ctrical Res w Building Elev	Street Lighting Environmental troom Security vators Garage Other	Communications Port Exterior Mechanical	Recreation Parking Entire Facility	
C)	Project/Program Dur One Year On-Going Program Multi-Year	☐ Yes ☐ No ☑ Yes ☐ No	Number of Years	S			
D)	Total Positions Position Title	Total FTEs	No. of Positi 	ions FTE	≣s Sala 	ries \$ \$ \$	
E)	In Six Year Capital Ir Yes 2009-20	-	Yes, Mod	dified ☐ New Re	equest		
F)	Project/Program Jus See attached sheet						
G)	Additional Commen	ts					

Capital Improvem ... Request Part II

Requesting Department:	epartment of Pub	lic Works - Infrastruc	ture Se	ervices		<u> </u>				
Project/Program Title: _s	Sewer Maintenance	Relay at various lo	cations	in the City	of Milwaukee	Account	No: SM49511	0000		
Year		Tax Levy/Borrow	do a	Grant	8 VI9	Pavanus	Specia		_ ,	
Remaining Balance for 2010	ſ	Tax Levy/Botton	ing	Grant	& Alu	Revenue	Assessm	ent	Enterprise \$0	Total Cost \$0
2011 Budget Request			_						\$29,000,000	\$29,000,000
2012 Projection			\dashv			· · · · · · · · · · · · · · · · · · ·	 		\$30,000,000	\$30,000,000
2013 Projection		VIII							\$31,000,000	\$31,000,000
2014 Projection			\vdash						\$31,000,000	\$31,000,000
2015 Projection			_						\$32,000,000	\$32,000,000
2016 Projection	}								\$33,000,000	\$33,000,000
Total Six Year Cost	ļ		\$0		\$0	\$0		\$0	\$186,000,000	\$186,000,000
Total Project Cost	ľ		\$0		\$0	\$0		\$0	\$186,000,000	\$186,000,000
	۲.		I.		<u></u>		. <u> </u>			+ 100,000,000
Life to Date Expenditures (Project	Only)		\$0		\$0	\$0		\$0	\$0	\$0
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Project Unsupported	2011	2012 		2013 	2014 	2015 	2016			
Were cost estimates confirmed by Are cost estimates based on indus: Will city employees be performing a Did you perform a cost/benefit anal	try standards? any portion of th			✓ Yes ✓ Yes ✓ Yes ✓ Yes	NoNoNoNoNo	☐ Uncertain☐ Uncertain☐ Uncertain☐ Uncertain☐ Uncertain☐ Uncertain				
How will this project impact city ope	erating expenditu	ıres?		☐ Increas	se 🗌 De	crease 🗸 None				
Estimated Start Date:	01/01/	11								
Estimated Completion Date: Or	n-Going									
			De	epartment	: Head Signa	ature				
			Pr	repa red B y	//Phone Ext	Martin A. Ad	uino 286-2462			

2011 DPW CAPITAL IMPROVEMENT PROJECT/PROGRAM DESCRIPTION

FUND & PROJECT GRANT N	IUMBER PRO	DJECT/PROGRAM TITLE & LOCATION
	В	MPs for TSS Reduction (NR 151)
DIVISION/ SECTION		
DEPARTMENT OF PUBLIC	C WORKS / INFRASTRUCTURE SERVICES	
DATE	PREPARED SY/PHONE	
3/16/2010	MARTIN A. AQUINO / 286-2462	
PROJECT/PROGRAM DESC	RIPTION AND JUSTIFICATION	
flows over streets and par Total Suspended Solids (* decaying plant and anima health and aquatic life. The City of Milwaukee, as separated storm sewer sy practicable, implement a p	rking lots, and then through storm sewers the TSS). TSS are solids in water that can be trail matter, industrial wastes, and sewage. High required by the Department of Natural Reservatem areas in the City of Milwaukee. Under program to help reduce TSS by 40% in runof % TSS reduction goal by 2013, the City of N	ers by flowing over the surface or through the soil just below the surface. As it at empty into the waterways, the water will carry contaminating material called apped by a filter. TSS can include a wide variety of material, such as silt, h concentrations of suspended solids can cause many problems for stream ources' (DNR) regulation in Chapter 151, regulates runoff quality in the NR 151, a municipality such as Milwaukee, must to the maximum extent ff that enters waters of the state by March 10, 2013. Milwaukee proposes to construct various Best Management Practices (BMPs) in areas, and end of pipe treatments throughout the separated storm sewer
system area in the City of The BMPs will help improv	Milwaukee. ve the quality of stormwater runoff discharge	ed into the public waterways and improve the general health of the watersheds
reached by 2013.		

Capital Improvement Request Form Part I

Project/Program Title:		BMPs for TSS Reduction	on (NR 151)	Requesting Department: DPW			
Pro	oared By/Phone Ext:	Martin Aquino / 286-246	62	Department Head S	ignature:		
Α	Lount No:						
A)	Department Priority	of Us	seful Life Y	Years Level of Ne	eed 🗸 Essential 🗌	Important Desired	
	_	New Replacement On-Going Program	Repair P	Project/Program Sco	pe Fully Defined	Partially Defined	
В)	Miscellaneous Develo	ws HVAC E	Electrical Restri	room Security	Communications Port Exterior Mechanical	Recreation Parking Entire Facility	
C)	Project/Program Dura One Year On-Going Program Multi-Year	ation Yes No Yes No Yes No	Number of Years	3			
D)	Total Positions Position Title	Total FTEs	No. of Position	ns FTE:	s Salaries	\$ \$ \$	
E)	in Six Year Capital Im Yes ☑ 2009-2014		☐ Yes, Modifi	fied New Rec	quest		
F) [Project/Program Just Please see attached shee	ification t.					
G)	Additional Comments	5					

Capital Improvement Request Part II

Requesting Department: _	DPW - Infrastru	icture Services						
Project/Program Title:	BMPs for TSS Reduction (NR 151)				Account	: No:		
- Year		Tax Levy/Borrowing	Grant 8	λid 3	Revenue	Special Assessmen	nt Enterprise	Total Cost
Remaining Balance for 2010	Γ				Revenue	Assessmen	Litterprise	10tal Cost \$0
2011 Budget Request					·		\$2,000,000	\$2,000,000
2012 Projection	-						\$2,000,000	\$2,000,000
2013 Projection							\$2,000,000	\$2,000,000
2014 Projection							\$0	\$0
2015 Projection	-						\$0	\$0
2016 Projection	-							\$0
Total Six Year Cost	ľ	\$0		\$0	\$	0	\$0 \$6,000,000	\$6,000,000
Total Project Cost		\$0		\$0	\$	0	\$0 \$6,000,000	\$6,000,000
	L.		<u> </u>	· · · · · · · · · · · · · · · · · · ·				-
Life to Date Expenditures (Project	Only)	\$0		\$0	\$	0	\$0 \$0	\$0
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Project Unsupported	2011	2012 	2013 	2014	2015	2016		
Were cost estimates confirmed by another source? Are cost estimates based on industry standards? Will city employees be performing any portion of the work? Did you perform a cost/benefit analysis?			✓ Yes ✓ Yes ✓ Yes ✓ Yes	No No	Uncertain Uncertain Uncertain Uncertain			
How will this project impact city op	erating expendit	ures?	☐ Increas	e 🗌 De	ecrease			
Estimated Start Date:	01/0 t/	11						
Estimated Completion Date:	12/31/	13						
			Department	Head Sign	nature			
			Prepared Ru	//Dhone Ev	·+			

2011 DPW CAPITAL IMPROVEMENT PROJECT/PROGRAM DESCRIPTION

FUND & PROJECT GRANT NUMBER		PROJECT/PROGRAM TITLE & LOCATION						
		Sanitary Pump Rehabilitation Project						
DIVISION/ SECTION		<u> </u>						
DEPARTMENT OF PUE	BLIC WORKS / INFRASTRUCTURE S	ERVICES						
DATE	PREPARED BY/PHONE							
3/16/2010	MARTIN A. AQUINO / 286-	2462						
PROJECT/PROGRAM DESCI	RIPTION AND JUSTIFICATION							
bypass pump stations. The available, to the Milwaukernsk of sewage from backing pump stations are located ground water entering into the Pump Facility Progratioperate. Failure of the sa. Overflows of sanitary sewhealth hazard. Loss of sanitary sewers. Loss of potential developerations.	ne sanitary lift stations are required to come Metropolitan Sewerage District (MMS) and up into resident's homes and busined in areas that have historically had see municipal wastewater systems. In funds the rehabilitation and replacementary lift stations will result in: wage onto the ground, streets, and wastewater for the existing areas that current the coment for areas tributary to the lift stationass pump stations will result in:							

Capital Improvement Request Form Part I

Pro	eject/Program Title:	Sanitary Pump Ref	nabilitation Project	_ Requesti	ng Department		ment of Public W ructure Services	orks -
Pre	pared By/Phone Ext:	Martin A. Aquino 28	Martin A. Aquino 286-2462		ent Head Signa	ture:		
٨	ount No:			- -				
A)	Department Priority	of	Useful Life	Years	Level of Need	✓ Essential	Important	Desired
		New Replaceme	ent 🔲 Repair	Project/Pr	ogram Scope	Fully Defined	✓ Partially De	efined
В)	Miscellaneous Devel	Remodeling [New Building Ele		_	Exterior [Recreation Parking Strict Facility	
C)	Project/Program Dur One Year On-Going Program Multi-Year	ration Yes No Yes No	•	s				
D)	Total Positions Position Title	Total FT	Es No. of Posit	ions	FTEs	Salarie	s \$ \$	
E)	In Six Year Capital Im Yes 2009-201	•	✓ Yes, Mo	dified	New Request			
F)	Project/Program Just Please see attached							
G)	Additional Comment	s						

Capital Improvem & Request Part II

Requesting Department: _	Department of	Public Works - Infras	tructure Serv	ices									
Project/Program Title:	Sanitary Pump	Rehabilitation Projec	it .		Account	Account No:							
Year		Tax Levy/Borrowing	g Grant	& Aid	Revenue		Special Assessment Enterprise Total Cos						
Remaining Balance for 2010	ſ	Tax Levy/Bollowing	g Grant	a Alu	Nevenue	Assessin	CILL	Enterprise	Total Cost \$0				
2011 Budget Request	-							\$1,000,000	\$1,000,000				
2012 Projection	-							\$1,000,000	\$1,000,000				
2013 Projection	1		<u> </u>					\$1,000,000	\$1,000,000				
2014 Projection		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						\$500,000	\$500,000				
2015 Projection								\$500,000	\$500,000				
2016 Projection	•							\$500,000	\$500,000				
Total Six Year Cost	ļ	\$0	- 	\$0	\$	0	\$0	\$4,500,000	\$4,500,000				
Total Project Cost		\$0		\$0	\$	0	\$0	\$4,500,000	\$4,500,000				
	L	_							_				
Life to Date Expenditures (Project Only)		\$0		\$0	\$	0	\$0	\$0	\$0				
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Project Unsupported	2011 	2012 	2013 	2014 	2015	2016							
Were cost estimates confirmed by Are cost estimates based on indust Will city employees be performing a Did you perform a cost/benefit anal	✓ Yes ✓ Yes ✓ Yes ✓ Yes	No No No No	Uncertain Uncertain Uncertain Uncertain										
How will this project impact city ope	erating expendit	ures?	Increa	ase 🗌 D	ecrease								
Estimated Start Date: 01/01/11													
Estimated Completion Date:	on go	ing											
			Departmer	ıt Hea d Si gi	nature								
			Prepared E	By/Phone E	ĸt								

2011 DPW CAPITAL IMPROVEMENT PROJECT/PROGRAM DESCRIPTION

FUND & PROJECT GRANT NUMBER		PROJECT/PROGRAM TITLE & LOCATION							
DIVISION/ SECTION		Infiltration/Inflow Reduction Program							
DEPARTMENT OF PUB	BLIC WORKS / INFRASTRUCTURE SI	ERVICES							
DATE	PREPARED BY/PHONE								
3/16/2010 MARTIN A. AQUINO / 286-2462									
PROJECT/PROGRAM DESCI	RIPTION AND JUSTIFICATION								
foundation drains from hor Once this stormwater enter Milwaukee Metropolitan Se When too much excess was sewage may backup into Sewage may overflow from Infiltration and inflow will sexcessive water in our se well as increased utility bill	ers the sanitary sewer system through mes that are connected directly to the size that are connected directly to the size the sanitary sewer it adds to the dailedward process our sewers as Infiltration or a residents homes creating a health hazed manholes or bypass treatment facilities use up existing hydraulic capacity in our expers will decrease the efficiency of Missister of the storesidents.	Inflow the following problems may occur: tard and an expensive cleanup of their property; ties contaminating properties as well as rivers, and Lake Michigan; ar sewers which will restrict the opportunity for growth; MSD's treatment plants and will result in higher operating costs of these plants as							
requirements. In December 2005, the City Stipulation that had a goal According to the stipulation once every five years and the report to the Department of capacity, the City must subsoft the capacity analysis, it in addition, the MMSD as reductions in the amounts of the capacity analysis, and the stipulation of the capacity analysis, it is in addition, the MMSD as reductions in the amounts of the capacity analysis, it is in addition.	y of Milwaukee and 27other communition of addressing overflows in these common, the City was ordered to perform certato perform any needed corrective action for Natural Resources (DNR) the capacition plan to provide sufficient is anticipated that corrective actions suequired by an earlier Stipulation agree of I/I in the district's system. The new results and the supplementation of the su	es served by MMSD and Wisconsin Department of Justice (DOJ) agreed to a nunities. ain corrective actions, chief among which is to inspect the City's sanitary manholes are within 18 months of discovery. Additionally, the City is required to complete and y evaluation of the 17 bypass locations listed in the stipulation. If a system lacks capacity or take other reasonable and cost-effective actions. Based on the results ch as sealing and lining of sanitary sewers will be required. ment with the DOJ in 2002 has revised its Chapter 3 rules to achieve certain ules will also cause additional rehabilitation work on the City's part. ill require additional rehabilitation work by the City.							

Capital Improvement Request Form Part I

Pro	ject/Program Title:	Infiltration/Inflow Reduction	on Program	Requesting Departmen	Departi Infrastr	ment of Public Works - ucture Services					
Pro	pared By/Phone Ext:	Martin A. Aquino 286-246	32	Department Head Signature:							
Α.	ount No:										
A)	Department Priority	ofUse	ful Life	Years Level of Need	✓ Essential	☐ Important ☐ Desired					
	· · · =	New Replacement [On-Going Program	Repair	Project/Program Scope	Fully Defined	✓ Partially Defined					
В)	Miscellaneous Devel	ows HVAC Ele	ectrical Resi	Environmental F troom Security ators Garage	Communications Port Exterior Mechanical	Recreation Parking Entire Facility					
C)	Project/Program Dura One Year On-Going Program Multi-Year	Yes No	Number of Years								
D)	Total Positions	Total FTEs	No. of Positi	ons FTEs	Salarie:	\$ \$ \$ \$					
E)	In Six Year Capital Im Yes 2009-201		✓ Yes, Mod	ified New Reques	t						
F)	Project/Program Just Please see attached										
G)	Additional Comments	S									

Capital Improvem ... Request Part II

Requesting Department:	Department of	Public Works - In	frastr	ucture Servi	ces										
Project/Program Title:	Infiltration/Inflo	w Reduction Pro	gram			Account	Account No:								
Year		Tax Levy/Borro	wing	Grant 8	& Aid	Revenue	Specia Assessn		Enterprise	Total Cost					
Remaining Balance for 2010									\$0						
2011 Budget Request		, , , , , , , , , , , , , , , , , , ,				· . ·			\$6,370,000	\$6,370,000					
2012 Projection						· · · · · · · · · · · · · · · · · · ·			\$4,890,000	\$4,890,000					
2013 Projection									\$4,900,000	\$4,900,000					
2014 Projection		***************************************				· · · · · · · · · · · · · · · · · · ·			\$3,000,000	\$3,000,000					
2015 Projection		······································							\$3,000,000	\$3,000,000					
2016 Projection									\$3,000,000	\$3,000,000					
Total Six Year Cost					\$0	\$0		\$0	\$25,160,000	\$25,160,000					
Total Project Cost			\$0	,	\$0	\$0		\$0	\$25,160,000	\$25,160,000					
	•	, , , , , , , , , , , , , , , , , , , ,								_					
Life to Date Expenditures (Project	Only)		\$0	,	\$0	\$0		\$0	\$0	\$0					
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Project Unsupported	2011 	2012 		2013 	2014 	2015	2016								
Were cost estimates confirmed by Are cost estimates based on indust Will city employees be performing a Did you perform a cost/benefit anal	try standards? any portion of th			✓ Yes ✓ Yes ✓ Yes ✓ Yes	□ No □ No □ No □ No	Uncertain Uncertain Uncertain Uncertain									
How will this project impact city operating expenditures?					se 🗌 De	crease 🖸 None									
Estimated Start Date: 01/01/11															
Estimated Completion Date:	on go	ing													
				Department	t Head Sign	ature				· · · · · · · · · · · · · · · · · · ·					
				Prepared By	y/Phone Ex	t									

MILWAUKEE WATER WORKS

2011 CAPITAL IMPROVEMENT PROGRAM

Distribution Mains \$14,770,000
Feeder Mains \$2,750,000

Total Mains \$17,520,000

WATER PLANT PROJECTS

	PROJECT CATEGORY	ESTIMATED COST
1.	Linnwood Plant Building Improvements	\$ 1,520,000
2.	Linnwood Plant Treatment Improvements	1,275,000
3.	Howard Plant Building Improvements	300,000
4.	Howard Plant Treatment Improvements	950,000
5.	Pump Facilities Improvements	2,050,000
6.	Storage Facilities Improvements	300,000
7.	Meter Repair Shop	150,000
8.	Backup Power Generation	0
тот	AL WATER PLANT PROJECTS	\$ 6,845,000
TOT	AL MAINS	17,520,000
TOT	AL PROGRAM	<u>\$ 24,365,000</u>

MILWAUKEE WATER WORK	(S CAPI	TAL II	MPR	OVEME	NTS		Rev:	March 17, 2010			Time:			
2011 - 2016													2	2011 - 2016
														SIX YEAR
IMPROVEMENTS	201	1		2012	7	2013		2014		2015	\vdash	2016		TOTAL
WATER MAIN IMPROVEMENTS		•												
Distribution Mains														
Total - Distribution Mains	\$ 14.	770,000	\$	16,900,000	\$	17,400,000	\$	18,200,000	\$	19,000,000	\$	19,800,000	\$	106,070,000
Replacements		370,000		16,500,000		17,000,000	-	17,800,000		18,600,000		19,400,000		103,670,000
Developer		300,000		300,000		300,000		300,000		300,000		300,000		1,800,000
Assessable		100,000		100,000		100,000		100,000		100,000		100,000		600,000
Assessable		100,000		100,000		100,000								
Feeder Mains						4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		4 400 000	•	4 000 000		4 220 000	_	0.000.000
Total - Feeder Mains	\$ 2,	750,000	\$	1,140,000	\$	1,160,000	\$	1,180,000	*	1,200,000	\$	1,220,000	\$	8,650,000
Total Water Main Improvements	\$ 17,	520,000	\$	18,040,000	\$	18,560,000	\$	19,380,000	\$	20,200,000	\$	21,020,000	\$	114,720,000
PLANT IMPROVE LOCATION					<u> </u>			<u>.</u>						
1 Linnwood Plant Building improvements	\$ 1,	520,000	ŧ	1,250,000	\$	810,000	\$	150,000	\$	150,000	\$	1,000,000	S	4,880,000
Security upgrade: gate/guard		,000,000		1,200,000	-	0,10,000	<u> </u>	,			 			1,000,000
Instrumentation shop space	<u>'</u>	,000,000		210,000			1				1			210,000
		325,000		900,000										1,225,000
Roof replacements Replace sanitary sewer main		195,000					+							195,000
		190,000				250,000	+			-	1			250,000
Roadway repaving and lighting			-			200,000		150,000			-			150,000
Cover filter skylights Paint North Point tower								100,000		150,000	1			150,000
				140,000	 	560,000								700,000
Filter building ceilings			<u></u>	140,000			1					1,000,000		1,000,000
Structural modifications					<u> </u>		+				T			
2 Linnwood Plant Treatment improvements		275,000	\$	1,775,000	\$	6,030,000	\$	4,800,000	\$	2,500,000	\$	1,500,000	\$	17,880,000
Motor control centers, cont.		600,000				1,000,000	_				 			1,600,000
Valves for ozone bypass		175,000		1,575,000							ļ			1,750,000
Chemical feed upgrade		500,000				500,000				500,000	ļ			1,500,000
Plant residuals handling system study				200,000			<u> </u>				 			200,000
Washwater system						200,000		1,500,000			1-		<u> </u>	1,700,000
Filter media replacement					ļ	4,000,000	<u> </u>		ļ		1		-	4,000,000
Advanced processes								********		2,000,000	+	1,500,000	<u> </u>	3,500,000
Raw water pumps #3 and #4						300,000	<u> </u>	3,000,000						3,300,000
Ozone contactor roof						30,000	-	300,000	-		-	 	_	330,000
3 Howard Plant Building improvements	\$	600,000	\$	200,000	\$	550,000	\$	200,000	\$	250,000	\$	300,000	\$_	2,100,000
Resurface concrete drive		250,000					T							250,000

2011 - 20°	16							2011 - 2016
		1970, 17.3.79						SIX YEAR
MPROVEMENT	S	2011	2012	2013	2014	2015	2016	TOTAL
Machine shop up				550,000				550,000
Instrumentation s	shop				200,000			200,000
Maintenance ope	ration center					250,000		250,000
Filter building roo	of		200,000					200,000
Drive House & C	orridor Roof	350,000						350,000
Loading dock							300,000	300,000
								-
4 Howard Plan	t Treatment Improvements	\$ 950,000				\$ 1,000,000	\$ 1,800,000	\$ 6,750,000
Flocculator syste		100,000	500,000	500,000				1,100,000
Ozone bldg wall:	stabilization/repair	500,000						500,000
Ozone contactor	roof refurbishing	350,000		60				350,000
Clearwell plug flo	W			200,000				1,000,000
Chemical feed st	orage tank SHC			500,000				500,000
Replace filter me	dia				200,000	800,000		1,000,000
Filter effluent val	ve operators			100,000				100,000
Electrical system	upgrades/efficiency		200,000					200,000
Advanced proces						200,000	1,800,000	2,000,000
								-
5 Pump Faciliti	es improvements	\$ 2,050,000	\$ 2,150,000	\$ 3,100,000	\$ 900,000	\$ 500,000	\$ 2,500,000	\$ 11,200,000
Florist Station: ba	eckup station					 	2,000,000	2,000,000
Riverside	Pumps, pipes & valves	500,000	500,000	500,000	500,000	500,000		3,000,000
Lincoln	Substation	333,0	322,333	2,000,000				2,000,000
Lincoln	Valves & pumps	400,000	350,000					750,000
								-
Adler	Zoo interchange 20%		50,000					50,000
GS/LS/Lisbon	Adjustable frequency drives	150,000				<u> </u>	<u> </u>	150,000
Texas	Pump upgrades	500,000		500,000		<u> </u>	<u> </u>	1,000,000
Texas	Elec upgrades, power mon		100,000					100,000
Grange	HVAC		250,000		<u> </u>			250,000
Oklahoma	Pump and station upgrades	200,000	800,000		400.000			1,000,000
North Point	Pump upgrades				400,000		<u> </u>	400,000
Various	Energy efficiency		100,000		 	<u> </u>	<u> </u>	100,000
Various	Security upgrades	200,000		100,000				300,000
Bluemound	VFD	100,000			ļ			100,000
					<u> </u>			•
								•
					8			-
								-
			<u> </u>	<u> </u>	<u> </u>		<u> </u>	1

2011 - 20	16														2011 - 2016
											·				SIX YEAR
IMPROVEMEN'			2011		2012		2013		2014		2015		2016		TOTAL
6 Storage Fac	llitles Improvements	\$	300,000	\$	2,700,000	\$	200,000	\$	2,000,000	\$	3,000,000	\$	6,000,000	\$	14,200,000
Clearwell roofs	Linnwood						200,000		2,000,000						2,200,000
Florist	Elevated storage tank												6,000,000		6,000,000
Lincoln	Paint tanks		300,000		2,700,000										3,000,000
Florist	Paint tanks						<u>.</u>				3,000,000				3,000,000
															-
															
7 Meter Repai	r Shon	\$	150,000	\$		\$	3,000,000	\$		\$		\$		\$	3,150,000
Cameron facility		-	150,000	Ψ			3,000,000		353.					4	3,150,000
Oameron lacing			100,000				0,000,000								
						<u> </u>	<u></u>			-				-	
8 Backup Pow	ver Generation	\$	•	\$	4,700,000	\$	1,300,000	\$	6,000,000	\$		\$	-	\$	12,000,000
Linnwood					4,500,000										4,500,000
North Point		-					500,000		6,000,000						6,500,000
Grange		+			200,000		800,000		0,000,000	-					1,000,000
Orange		1			200,000		900,000								
															-
															•
9 Capital Proje	cts Contingencles	\$		\$	1,000,000	\$	-	\$	2,000,000	\$		\$	2,000,000	\$	5,000,000
Contingencies		 			1,000,000	Ť		<u> </u>	2,000,000			· · · ·	2,000,000	<u> </u>	5,000,000
															-
															-
		4		ļ		ļ									-
Total Plant Imp	provements	\$	6,845,000	\$	14,475,000	\$	16,290,000	\$	17,050,000	\$	7,400,000	\$	15,100,000	\$	77,160,000
TOTAL WATER	WORKS PROGRAM	\$	24,365,000	\$	32,515,000	\$	34,850,000	\$	36,430,000	\$	27,600,000	\$	36,120,000	\$_	191,880,000
% Increase bet	ween years - program gross	_	21.6%		33.4%		7.2%		12.0%		-20.8%		-0.9%		

CITY OF MILWAUKEE

2011-2016

DISTRIBUTION MAIN PROJECTS

Рго	ject/Program Title:	2011-16 Distribu	ution Water Main Progra	am Reque	sting Departm	nent: DPW	Milwaukee Water Works
	pared By/Phone Ext:	Dinah G. Gant/3	867	Depart	ment Head SI	gnature:	i .
Acc	ount No:	04206410R999					
A)	Department Priority	of	Useful Life 1	10 Years	Level of Nee	ed 🗸 Essential	☐ Important ☐ Desired
	Type of Project []	New Replacer On-Going Program	nent Repair	Project/	Program Scop	Pe Fully Defined	Partially Defined
B)	Miscellaneous Deve	Remodeling	✓ Water ☐ Bridge ☐ Electrical ☐ New Building ☐ Equipment	Street i Enviror Restroom Elevators	-99	Communications Port Exterior Mechanical	☐ Recreation ☐ Parking ☐ Entire Facility
C)	Project/Program Du One Year On-Going Program Multi-Year		No	Years			
D)		Total use See Attached D-52 Water Eng A.x	No. of I	ositions	FTEs	Salari	s
E)	In Six Year Capital I	-	_	, Modified	☑ New Requ	est	
F)	Project/Program Ju This program is needed to Citizens; to provide suffice required to continue deve	to provide sufficient cient water for all fire	e protection needs and	lo enable cons	onsumers to satis umers to obtain ti	fy their needs and to ne lowest cost fire in	protect the health of Milwaukee surance. This program is further
G)	Additional Commer 2011 Water Main Replace deteriorating asset In an characteristics, coordina	cement Program is a efficient manner. V	Vater mains to be repla-	ced will be sele	ected based on ra	nking on the "main b	hat will aid in the replacement of its reak Index," hydraulic

Requesting Department: _	PUBLIC WOR	RKS - Milwaukee	Wate	r Works						
Project/Program Title: _	2011-16 Distri	bution Water Ma	in Pro	gram		Account N	lo: 04206	410R	999	
Year		Tax Levy/Borro	wing	Grant	& Aid	Revenue	Special Assessme		Enterprise	Total Cost
Remaining Balance for 2010			Ĩ						\$0	\$0
2011 Budget Request					2				\$14,770,000	\$14,770,000
2012 Projection		<u> </u>							\$16,900,000	\$16,900,000
2013 Projection									\$17,400,000	\$17,400,000
2014 Projection				17.1.		· · · · · · · · · · · · · · · · · · ·	-		\$18,200,000	\$18,200,000
2015 Projection				·					\$19,000,000	\$19,000,000
2016 Projection						 		-	\$19,800,000	\$19,800,000
Total Six Year Cost			\$0		\$0	\$0		\$0	\$106,070,000	\$106,070,000
Total Project Cost		"-"	\$0		\$0	\$0		\$0	\$106,070,000	\$106,070,000
	'									-
Life to Date Expenditures (Project	t Only)		\$0		\$0	\$0		\$0	\$0	\$0
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Project Unsupported	2011 	2012 	NG.	2013 	2014 	2015 	2016			
Were cost estimates confirmed by Are cost estimates based on indus Will city employees be performing Did you perform a cost/benefit and	stry standards? any portion of t			☐ Yes ☑ Yes ☑ Yes ☐ Yes	☑ No □ No □ No ☑ No	☐ Uncertain ☐ Uncertain ☐ Uncertain ☐ Uncertain				
How will this project impact city op	erating expend	itures?		☐Increas	ie 🗹 Dec	crease None				
Estimated Start Date:	01/01/	/11								
Estimated Completion Date:	<u>.</u>									
			ı	Departmen	t Head Sig	nature	·		····	
			F	Prepared B	y/Phone E:	xt Dinah G.	Gant/3867			

2011-2016

FEEDER MAIN PROJECTS

Рго	ject/Program Title:	2011-16 Feeder M	lain Program	Reques	ting Departr	ment: DPW	//Milwaukee Water	Works
Pre	pared By/Phone Ext:	Dinah G. Gant/386	7	Departr	ment Head S	ignature:		
,	ount No:	04206410R999						
A)	Department Priority	of	Useful Life 11	0 Years	Level of Ne	ed 🗸 Essential	☐ Important	Desired
	Type of Project ☑N	lew 🗹 Replaceme On-Going Program	nt Repair	Project/P	rogram Sco	pe ☑ Fully Define	d Partially De	fined
B)	Miscellaneous Devel	Remodeling	✓ Water ☐ Bridge ☐ Electrical ☐ ☐ New BulldIng ☐ ☐ Equipment	Street Lig Environn Restroom Elevators	_	Communications Port Exterior Mechanical	Recreation Parking Entire Facility	
C)	Project/Program Dur One Year On-Going Program Multi-Year	ration Yes No Yes No	•	ears				
D	Position Title Pleas	Total F1 se See Attached -52 Water Eng A.xls		ositions	FTEs	Salar 		
E)	In Six Year Capital Ir Yes ☐ 2009-2014	•		Modified	☑ New Requ	uest		
F)	Project/Program Jus This program is needed to Citizens; to provide suffici required to continue devel addition of feeder mains to	o provide sufficient an ent water for all fire properties of the City and	rotection needs and to	enable consur	mers to obtain t	he lowest cost fire in	surance. This prog	ram is further
G)	Additional Commen	ts						

Requesting Department:	PUBLIC WORK	KS - Milwaukee	Water V	Vorks						
Project/Program Title:		r Main Program				Account	No: 04206	6410R9	999	
Year		ax Levy/Borro	wing	Grant 8	Aid	Revenue	Specia Assessme		Enterprise	Total Cost
Remaining Balance for 2010									\$0	\$0
2011 Budget Request							125	$\neg +$	\$2,750,000	\$2,750,000
2012 Projection									\$1,140,000	\$1,140,000
2013 Projection						<u> </u>			\$1,160,000	\$1,160,000
2014 Projection							 		\$1,180,000	\$1,180,000
2015 Projection									\$1,200,000	
2016 Projection						<u> </u>	 	-	\$1,220,000	\$1,200,000
Total Six Year Cost	F		\$0		\$0	\$0		\$0	\$8,650,000	\$1,220,000
Total Project Cost	-		\$0		\$0	\$0		\$0		\$8,650,000
	_						<u></u>		\$8,650,000	\$8,650,000
Life to Date Expenditures (Project	Only)		\$0		\$0	\$0	Γ	\$0	\$0	\$0
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Project Unsupported Were cost estimates confirmed by Are cost estimates based on indust Will city employees be performing a Did you perform a cost/benefit analy	another source? ry standards? any portion of the		(((2013 Tyes Yes Yes Yes	2014	2015	2016			
How will this project impact city ope Estimated Start Date: Estimated Completion Date:	rating expenditu		C	Increase	☑ Dec	rease 🗖 None				
			Dep	artment l	Head Sign				10	
			Prep	pared By/	Phone Ex	tt Dinah G.	Gant/3867			

CITY OF MILWAUKEE

2011-2016

WATER PLANTS PROJECTS

2011-2016

LINNWOOD PLANT BUILDING IMPROVEMENTS

Pro	oject/Program Title:	2011-16 Linnwood	Bidg Improvemen	t Reques	sting Depart	ment: DPV	V/Milwaukee Wate	Works
Pre	epared By/Phone Ext:	Dinah G. Gant/386	7	Departi	ment Head S	Signature:		
	ount No:	04206410R999		 _				
A)	Department Priority	of	Useful Life	Years	Level of Ne	ed 🗸 Essential	☐ Important	Desired
	Type of Project ☐ N	ew Replaceme	nt 🗌 Repair	Project/P	rogram Sco	pe Fully Define	ed Partially D	efined .
В)	Description Infrastructure Street Related Sidewalks Building Roof Window	Sewer Alleys	☑ Water ☐ Bridge ☐ Electrical	☐ Street Lig ☐ Environr ☐ Restroom		☐ Communications ☐ Port ☐ Exterior	☐ Recreation☐ Parking☐ Entire Facility	
	□ ADA □ Office R	_	New Building	—	Garage	☐ Mechanical	Elarc racing	
	Miscellaneous Devel	opment			2 04.0 3 0			
l	☐ Economic ☐ Info	ormation Systems	☐ Equipment	Other				
C)	Project/Program Dura One Year On-Going Program Multi-Year	ation Yes No Yes No Yes No)	of Years		12		W
L)	Position Title Please	Total FT e See Attached 52 Water Eng A.xls	No. o	of Positions	FTE:	s Sala	ries \$ \$	
E)	In Six Year Capital In Yes ☐ 2009-2014	nprovement Plan		es, Modified	☑ New Requ	uest		
F)	Project/Program Just This program continues wi operation of the water purif	th Milwaukee Water	Works' program o	of maintaining and r	eplacing aging	infrastructure for a t	acility that is critica	al to the efficient
				v				
G)	Additional Comment: Projects included in the 20 Linnwood Plant's entrancer for video surveillance white roof systems throughout th project will replace a 76-yes	111 Program Year are way will be redesigne maintaining the aest re plant to include no	d and hardened. hetics of the site. rth and south pipe	The final project w 2) Roof Replacer gallery roofs, as w	rill allow for sec ments - This pro rell as the pump	ure access of authoroject continues the portion roof. 3) San	rized vehicles and program of replacin	persons, allow g detenorating

Requesting Department:	PUBLIC WORK	KS - Milwaukee Wa	ater Works					
Project/Program Title:	2011-16 Linnwo	ood Building Impro	vements	·	Account	No: 04206	410R999	
Year	Ţ	ax Levy/Borrowi	ng Gra	ant & Aid	Revenue	Special Assessme	nt Enterprise	Total Cost
Remaining Balance for 2010	L						\$0	\$0
2011 Budget Request	L						\$1,520,000	\$1,520,000
2012 Projection						3)	\$1,250,000	\$1,250,000
2013 Projection							\$810,000	\$810,000
2014 Projection						TI.	\$150,000	\$150,000
2015 Projection					···		\$150,000	\$150,000
2016 Projection				7	· · · · · · · · · · · · · · · · · · ·	 	\$1,000,000	\$1,000,000
Total Six Year Cost		\$0		\$0	\$0	<u> </u>	\$0 \$4,880,000	\$4,880,000
Total Project Cost		\$0		\$0	\$0		\$0 \$4,880,000	\$4,880,000
	_							-
Life to Date Expenditures (Project	Only)	\$0		\$0	\$0		\$0 \$0	\$0
Avaliable Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Project Unsupported	2011 	2012 	2013 - - -	2014 	2015 	2016		
Were cost estimates confirmed by Are cost estimates based on indus Will city employees be performing Did you perform a cost/benefit anal	try standards? any portion of th		☐ Yes ☑ Yes ☑ Yes ☐ Yes	No □ No	☐ Uncertain ☐ Uncertain ☐ Uncertain ☐ Uncertain			
How will this project impact city ope	erating expenditu	ıres?	□Incr	rease 🗹 De	crease None			
Estimated Start Date:	01/01/1	1						
Estimated Completion Date:								
9			Departm	nent Head Sig	nature 1		· · · · ·	<u>-</u>
			Prepare	d By/Phone E	•	. Gant/3867		

2011-2016

LINNWOOD PLANT TREATMENT IMPROVEMENTS

Pro		ements Reque	Requesting Department: DPW/Milwaukee Water Works					
	ared By/Phone Ext: Dina	G. Gant/3867 Depart	tment Head Signature:					
Acc	count No: 042	41 0R999						
A)	Department Priority	of Vseful Life Years	Level of Need ☑ Essential ☐ Important ☐ Desired					
	Type of Project ☐ New ☐ On-Goid	5	Program Scope Fully Defined Partially Defined					
В)	Description Infrastructure Street Related		1					
	Building	eys Bridge DEnviror	internal Graining					
	•	HVAC Electrical Restroom	Security Exterior Dentire Facility					
	☐ ADA ☐ Office Remod	ng New BuildIng Elevators	☐ Garage ☐ Mechanical					
	Miscellaneous Developme	<u> </u>						
c)	Project/Program Duration							
	One Year	5 □No						
	On-Going Program	S □ No	Ì					
I	Multi-Year	No Number of Years						
D)	Total Positions	Total FTEs						
	Position Title Please See BMD-52 W		FTEs Salaries \$ \$ \$ \$					
E)	In Six Year Capital Improv Yes ☐ 2009-2014 ☐		☑ New Request					
F)	Project/Program Justifica This program continues with Mile		eplacing systems necessary for the water punification process.					
			<u></u>					
_ L								
G)	control center #4, load centers B allow water to be treated without	C/motor control center #2 and #3, and load cent ssing through the ozone contactors, thus enabl pgrades - This project allows upgrades to the c	ments - Continue with the replacement of failing equipment at motor er #1 and #2. 2) Valves for Ozone By-Pass - This multi-year project will ing the ozone contactors to be taken out of service for repair or hernical feed systems that accommodate the various chemicals					

		Grant (& Ald	Account N Revenue	o: 04206410R9 Special Assessment	Enterprise \$0 \$1,275,000 \$1,775,000 \$6,030,000 \$4,800,000 \$2,500,000 \$1,500,000	\$0 \$1,275,000 \$1,775,000 \$6,030,000 \$4,800,000 \$2,500,000
	\$0	Grant a			•	\$0 \$1,275,000 \$1,775,000 \$6,030,000 \$4,800,000 \$2,500,000	\$0 \$1,275,000 \$1,775,000 \$6,030,000 \$4,800,000
			\$0			\$1,275,000 \$1,775,000 \$6,030,000 \$4,800,000 \$2,500,000	\$0 \$1,275,000 \$1,775,000 \$6,030,000 \$4,800,000
			\$0			\$1,775,000 \$6,030,000 \$4,800,000 \$2,500,000	\$1,775,000 \$6,030,000 \$4,800,000
			\$0			\$6,030,000 \$4,800,000 \$2,500,000	\$1,775,000 \$6,030,000 \$4,800,000
			\$0			\$4,800,000 \$2,500,000	\$6,030,000 \$4,800,000
			\$0			\$2,500,000	\$4,800,000
			\$0			\$2,500,000	
			\$0				7-11-7
			\$0			41,000,000	\$1,500,000
	\$0			\$0	\$0	\$17,880,000	\$17,880,000
			\$0	\$0	\$0	\$17,880,000	\$17,880,000
	\$0		\$0	\$0	\$0	\$0	\$0
2012 		2013 - - - -	2014 	2015 	2016		
work?		☐ Yes ☑ Yes ☑ Yes ☐ Yes	☑ No □ No □ No ☑ No	Uncertain Uncertain Uncertain Uncertain			
es?		☐ Increase	e 🗹 Dec	rease None			
	D	epartment	Head Sigi	nature ()			
		repared By	//Phone Ex	ct Dinah G. C	Gant/3867		· · · · · · · · · · · · · · · · · · ·
	es?		 Department	Department Head Sign	Department Head Signature		Department Head Signature

2011-2016

HOWARD PLANT BUILDING IMPROVEMENTS

Pro	oject/Program Title:2	2011-16 Howard Bulldi	ing Improvements	Requesting	Department:	DPW/M	ilwaukee Water V	Vorks
Pre	epared By/Phone Ext:[Dinah G. Gant/3867	<u></u>	Department	Head Signatu	ıre:		
٨	ount No:	04206410R999	*	_				
A)	Department Priority	of U	seful Life	Years Leve	el of Need 🗸	Essential [Important [Desired
	Type of Project ☐ New ☐ On-G	Replacement Going Program	Repair	Project/Progra	am Scope 🔲	Fully Defined	Partially Defi	ned
В)	Infrastructure Street Related Sidewalks Building Roof DADA Office Rem	Alleys [HVAC I Hodeling I Dement	Bridge Electrical Res		Port	nunications Exterior ☑ Vechanical	Recreation Parking Entire Facility	
Į	Teconomic Dinion	nation systems						
C)	One Year On-Going Program	ion ☐ Yes ☐ No ☑ Yes ☐ No ☐ Yes ☐ No	Number of Yea	rs				
Dil	Total Positions	Total FTE						
	Position Title Please S	See Attached Water Eng A.xls	No. of Pos	itions	FTEs	Salaries	_	
E)	In Six Year Capital Imp Yes ☐ 2009-2014		☑ Yes, Mo	dified 🗹	New Request			
F)	Project/Program Justif This program continues with to the efficient operation of th	Milwaukee Water Wo	orks capital Improvem rocess.	ents plans to mair	ntain and replace	aging infrastruc	ture for the facilit	y that is critical
G)	Additional Comments Projects Included in the 2011 building are deteriorated and program of replacing leaking	1 Program Year are: 1 in need of resurfacing	g. 2) Drive House Bu	ilding and Corrido	or Roof - This proj	ject continues N	filwaukee Water	sides of the Works

Requesting Department:	PUBLIC WOR	RKS - Milwaukee	Water	Works						
Project/Program Title:	2011-16 Howa	ard Building Impr	oveme	nts	<u> </u>	Account	No: 042	06410R9	999	
Year	,	Tax Levy/Borro	wing	Grant (& Aid	Revenue	Spec Assess		Enterprise	Total Cost
Remaining Balance for 2010									\$0	\$0
2011 Budget Request									\$600,000	\$600,000
2012 Projection									\$200,000	\$200,000
2013 Projection									\$550,000	\$550,000
2014 Projection		,							\$200,000	\$200,000
2015 Projection									\$250,000	\$250,000
2016 Projection									\$300,000	\$300,000
Totai Six Year Cost			\$0		\$0	\$()	\$0	\$2,100,000	\$2,100,000
Total Project Cost			\$0		\$0	\$()	\$0	\$2,100,000	\$2,100,000
	•					7	<u> </u>			-
Life to Date Expenditures (Project	Only)		\$0		\$0	\$()	\$0	\$0	\$0
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Project Unsupported Were cost estimates confirmed by	another source	□ □ □ □		2013	2014 	2015	2016			
Are cost estimates based on indus Will city employees be performing	•			☑ Yes	□No	Uncertain				
Did you perform a cost/benefit and	• •	ule work:		☑ Yes ☐ Yes	□ No ☑ No	☐ Uncertain☐ Uncertain				
How will this project impact city op	erating expend	litures?		☐ Increas	se 🗹 De	crease 🔲 None				
Estimated Start Date:	01/01	<u>/11</u>								
Estimated Completion Date:										
B			0	Departmen	nt Head Sig	nature				
			P	repared E	By/Phone E	xt <u>Dinah</u>	G. Gant/3867	-		

2011-2016

HOWARD PLANT TREATMENT IMPROVEMENTS

Pre	oject/Program Title:	2011-16 Howard Treatments Improvements Requesting Department: DPW/Milwaukee Water Works
Pr	epared By/Phone Ext:	Dinah G. Gant/3867 Department Head Signature:
٨	Junt No:	04206410R999
A)	Department Priority	ofUseful LifeYears Level of Need
		w ☐ Replacement ☐ Repair Project/Program Scope ☐ Fully Defined ☑ Partially Defined Going Program
B)	Infrastructure Street Related	□ Sewer ☑ Water ☐ Street Lighting ☐ Communications ☐ Recreation □ Alleys ☐ Bridge ☐ Environmental ☐ Port ☐ Parking □ HVAC ☐ Electrical ☐ Restroom ☐ Security ☐ Exterior ☑ Entire Facility
	Miscellaneous Develo	
C)	On-Going Program	tion ☐ Yes ☐ No ☑ Yes ☐ No ☐ Yes ☐ No Number of Years
D)	Position Title Please S	Total FTEs See Attached No. of Positions FTEs Salaries \$ Water Eng A.xls \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
E) [In Six Year Capital Imp Yes 2009-2014	
F)	Project/Program Justif This program continues with purification process.	ication Milwaukee Water Works capital Improvements plans of upgrading and replacing systems necessary for the water
	ē	
G)	shafts. Flocculators are esse separation of the exterior wes be stable. This project will str	Program Year are: 1) Flocculator System Upgrade - This multi-year project involves replacing the flocculator bearings and ential to the treatment process. 2) Ozone Bullding Wall Stabilization/Repair- A consultant report confirms horizontal joint at wall of the ozone building. Ozone is a vital part of the treatment process with the building housing the system required to abilize the building. 3) Ozone Contactor Roof- The Integrity of the building housing the ozone process must be protected, need of repair or replacement. The extent of the damage is to evaluated after the stabilization of the building is complete.

Requesting Department:	PUBLIC WORK	S - Milwaukee Wate	r Works					
Project/Program Title:	2011-16 Howard	l Treatment Improve	ments		Account N	No:04206410R	\$0 \$950,000 \$700,000 \$1,000,000 \$1,800,000 \$6,750,000 \$6,750,000	
Year	Ta	ax Levy/Borrowing	Grant 8	Ald	Revenue	Special Assessment	Enterprise	Total Cost
Remaining Balance for 2010	<u>_</u>						\$0	\$0
2011 Budget Request	L						\$950,000	\$950,000
2012 Projection							\$700,000	\$700,000
2013 Projection							\$1,300,000	\$1,300,000
2014 Projection	L						\$1,000,000	\$1,000,000
2015 Projection							\$1,000,000	\$1,000,000
2016 Projection							\$1,800,000	\$1,800,000
Total Six Year Cost		\$0		\$0	\$0	\$0	\$6,750,000	\$6,750,000
Total Project Cost		\$0		\$0	\$0	\$0		\$6,750,000
	_							-
Life to Date Expenditures (Project C	Only)	\$0		\$0	\$0	\$0	\$0	\$0
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Projects Unsupported Were cost estimates confirmed by a	ō	2012 	2013	2014	2015 	2016 		
Are cost estimates based on industr Will city employees be performing a Did you perform a cost/benefit analy		☐ Yes ☑ Yes ☑ Yes ☐ Yes	☑ No □ No □ No ☑ No	Uncertain Uncertain Uncertain Uncertain				
How will this project impact city oper	ating expenditu	res?	☐ Increase	☑ Dec	crease None			
Estimated Start Date:	01/01/11							
Estimated Completion Date:								
		C	Department	Head Sign				
		F	Prepared By/Phone Ext Dinah G. Gant/3867					

2011-2016

PUMP FACILITIES PROJECTS

Pro	ject/Program Title:	2011-16 Pump F	acilities Improvemer	nts Reques	Requesting Department: DPW/Milwaukee Water Works					
	nared By/Phone Ext:	Dinah G. Gant/3	Depart	Department Head Signature:						
Acc	ount No:	04206410R999								
A)	Department Priority	of	Useful Life _	Years	Level of Nee	d 🗸 Essential	☐ Important ☐ Desired			
	Type of Project ☐ N	lew Replacen On-Going Program	nent Repair	Project/P	rogram Scop	Fully Define	d Partially Defined			
B)	Description Infrastructure Street Related Sidewalks Building Roof Window	Sewer Alleys HVAC Remodeling	✓ Water ☐ Bridge ☐ Electrical ☐ New Bullding	Street Light Environr Restroom Elevators		Communications Port Exterior Mechanical	☐ Recreation ☐ Parking ☑ Entire Facility			
	Miscellaneous Deve	lopment formation Systems	☐ Equipment	Other						
C)	Project/Program Dur One Year On-Going Program Multi-Year	ration Yes Yes Yes	No	of Years						
D)		Total se See Attached -52 Water Eng A.x	No. o	of Positions	FTEs	Salar	ies \$ \$ \$			
E)	In Six Year Capital II Yes 2009-2014	mprovement Pl		es, Modified	☑ New Reque	est				
F)		two purification plan Water Works to u	pgrade and/or replac	ce various aspects	(e.g., pumps, va	lves, electrical and	nroughout the system. This HVAC systems, and the buildings			
G)	of these projects will be c Pumping Station. Lincoln	ncludes projects invoordinated with the Station requires m	day-to-day operation odifications to valves	ns of the two plants s and pumps. Pun	 A multi-year properts 	roject is addressing at Texas Avenue a	the system. The implementation pumps and valves at the Riversidand at booster stations will improve e electronic monitoring at remote			

Requesting Department: _	PUBLIC WOR	KS - Milwaukee Wate	r Works							
Requesting Department: Project/Program Title: Year Remaining Balance for 2010 2011 Budget Request	2011-16 Pump	Facilities Improveme	nts		Acco	unt N	o:04206	6410R9	99	
Year	3	Tax Levy/Borrowing	Grant (& Aid	Revenue		Specia Assessm		Enterprise	Total Cost
Remaining Balance for 2010									\$0	\$0
2011 Budget Request									\$2,050,000	\$2,050,000
2012 Projection			20.00			\neg			\$2,150,000	\$2,150,000
2013 Projection	[-		\$3,100,000	\$3,100,000
2014 Projection	Γ				33				\$900,000	\$900,000
2015 Projection	ſ				· · · · · · · · · · · · · · · · · · ·	\Box			\$500,000	\$500,000
2016 Projection	ľ		-						\$2,500,000	\$2,500,000
Total Six Year Cost		\$0		\$0		\$0		\$0	\$11,200,000	\$11,200,000
Total Project Cost		\$0		\$0	0	\$0	·	\$0	\$11,200,000	\$11,200,000
Life to Data Famouditions (Dustant	.o-ta F	***				•• 1				
Life to Date Expenditures (Project	Chiy)	\$0		\$0		\$0		\$0	\$0	\$0
Avallable Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Project Unsupported	201 1	2012 	2013 	2014 	2015 		2016 			
Were cost estimates confirmed by another source? Are cost estimates based on industry standards? Will city employees be performing any portion of the work? Did you perform a cost/benefit analysis?			☐ Yes ☑ Yes ☑ Yes ☐ Yes	☑ 100 □ 100 □ 100	Uncertain Uncertain Uncertain Uncertain					
How will this project impact city op	erating expendi	tures?	☐ Increas	e ☑De	crease No.	ne				
Estimated Start Date:	01/01/	<u>t1</u>								
Estimated Completion Date:										
			Departmen	_	euil —	nah G.	Gant/3867	-17	· · · · · · · · · · · · · · · · · · ·	

2011-2016

STORAGE FACILITIES PROJECTS

Pro	oject/Program Title: 2011-16 Storage Facilities Improvements Requesting Department: DPW/Milwaukee Water Works
Pre	epared By/Phone Ext: Dinah G. Gant/3867 Department Head Signature:
	ount No: 04206410R999
A)	Department Priority of Useful Life Years Level of Need ☑ Essential ☐ Important ☐ Desired
	Type of Project ☐ New ☐ Replacement ☐ Repair Project/Program Scope ☐ Fully Defined ☑ Partially Defined ☑ On-Going Program
B)	Description Infrastructure ☐ Street Related ☐ Sewer ☑ Water ☐ Street Lighting ☐ Communications ☐ Recreation ☐ Sidewalks ☐ Alleys ☐ Bridge ☐ Environmental ☐ Port ☐ Parking Building ☐ Roof ☐ Windows ☐ HVAC ☐ Electrical ☐ Restroom ☐ Security ☐ Exterior ☑ Entire Facility
į	□ ADA □ Office Remodeling □ New Building □ Elevators □ Garage □ Mechanical Miscellaneous Development □ Economic □ Information Systems □ Equipment □ Other
C)	Project/Program Duration One Year ☐ Yes ☐ No On-Going Program ☑ Yes ☐ No Multi-Year ☐ Yes ☐ No Number of Years
υ, [Total Positions Total FTEs Position Title Please See Attached No. of Positions FTEs Salaries \$
E)	In Six Year Capital Improvement Plan Yes ☐ 2009-2014 ☐ 2010-2015 ☑ Yes, Modified ☑ New Request
F)	Project/Program Justification Milwaukee Water Works' two purification plants - Howard and Linnwood- rely upon various storage facilities located throughout the system. This program allows for evaluating, eliminating or enhancing the storage capacity for the system.
G)	Additional Comments The 2011 Program year includes the design portion of a project associated with the Lincoln Station Storage Tank. Both interior and exterior coatings of the two tanks at the site are near the end of their useful life and require removal of existing paint and repainting.

Requesting Department:F	PUBLIC WORK	KS - Milwaukee V	Vater W	orks_						
Project/Program Title:2	2011-16 Storag	ge Facilities Impre	ovemen	ts		Account I	No: 04206	410R9	Enterprise \$0 \$300,000 \$2,700,000 \$2,000,000 \$3,000,000 \$6,000,000 \$14,200,000 \$14,200,000	
Year	ַ	ax Levy/Borrov	ving	Grant &	Aid	Revenue	Special Assessme		Enterprise	Total Cost
Remaining Balance for 2010	Ĺ	·							\$0	\$0
2011 Budget Request	L								\$300,000	\$300,000
2012 Projection									\$2,700, 0 00	\$2,700,000
2013 Projection									\$200,000	\$200,000
2014 Projection									\$2,000,000	\$2,000,000
2015 Projection									\$3,000,000	\$3,000,000
2016 Projection	ſ								\$6,000,000	\$6,000,000
Total Six Year Cost			\$0		\$0	\$0		\$0	\$14,200,000	\$14,200,000
Total Project Cost			\$0		\$0	\$0		\$0	\$14,200,000	\$14,200,000
	_									-
Life to Date Expenditures (Project C	Only)	1	\$0		\$0	\$0		\$0	\$0	\$0
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Projects Unsupported Were cost estimates confirmed by a	another source	2012	[2013	2014 	2015	2016 			
Are cost estimates based on industr	·	· · · · · · · · · · · · · · · · · ·		☑ Yes	□No	Uncertain				
Will city employees be performing a Did you perform a cost/benefit analy	- •	ne work?		☑Yes ☑Yes	□No ☑No	Uncertain Uncertain				
How will this project Impact city ope	rating expendit	ures?	C] Increase	☑ Dec	crease None				
Estimated Start Date:	01/01/1	11								
Estimated Completion Date:										
			Dep	partment	Head Sig	nature	<u></u>		·	
			Pre	pared By	/Phone E	xt Dinah G	. Gant/3867			

2011-2016

METER REPAIR SHOP PROJECTS

Pr	roject/Program Title: 2011-16 Meter	Repair Shop	_ Requesting Depa	rtment: DPW/	//////////////////////////////////////
Pr	repared By/Phone Ext: Dinah G. Gant	3867	_ Department Head	Signature:	
•	ount No: 04206410R999)	_		
A)					☐ Important ☐ Desired
	Type of Project ☐ New ☐ Replace ☐ On-Going Program	•	Project/Program So	cope Fully Defined	☑ Partially Defined
B)	Description Infrastructure Street Related Sewer Sidewalks Alleys Building Roof Windows HVAC ADA Office Remodeling	☐ Bridge ☐ Electrical ☐ Res	Street Lighting Environmental Stroom		☐ Recreation ☐ Parking Entire Facility
	Miscellaneous Development Economic Information Systems	□ New Building □ Ele	vators Garage	☐ Mechanical	
C)	One Year ☐ Yes ☐ On-Going Program ☑ Yes ☐	No No Number of Yea	rs		
D)	Position Title Please See Attached BMD-52 Water Eng A.	FTEs No. of Posi	tions FT	Es Salaries	\$ \$
E)	In Six Year Capital Improvement P Yes ☐ 2009-2014 ☐ 2010-2015		ilfied	quest	
F)	Project/Program Justification This program allows for the operations associate facilities. Milwaukee Water Works	iated with the Business Sec will continue to review the m	ction's Water Meter Servinost efficient way to delive	ces. In 2010, Meter Serv er these services.	ices will be housed in two
G)	Additional Comments The 2011 Program year includes a project th services required.	at will evaluate both facilities	s, including costs to locate	e Meter Services where it	is most efficient to deliver the

Requesting Department: PUB	LIC WORI	KS - Milwaukee W	/ater	Works							
Project/Program Title: 2011	-16 Meter	Repair Shop				Acc	ount N	o: 0420	6410R9	999	
Year	ַן	Гах Levy/Borrow	ing	Grant 8	Aid	Revenu	e	Specia		Enterprise	Total Cost
Remaining Balance for 2010						<u> </u>				\$0	\$0
2011 Budget Request	L									\$150,000	\$150,000
2012 Projection						7.1.				\$0	\$0
2013 Projection										\$3,000,000	\$3,000,000
2014 Projection	Γ									\$0	\$0
2015 Projection	Γ									\$0	\$0
2016 Projection									$\overline{}$	\$0	\$0
Total Six Year Cost	Γ	\$	0		\$0		\$0		\$0	\$3,150,000	\$3,150,000
Total Project Cost		\$	0		\$0		\$0		\$0	\$3,150,000	\$3,150,000
life to Date Formality of the control of	_										-
Life to Date Expenditures (Project Only)	<u></u>		<u> </u>		\$0		\$0		\$0	\$0	\$0
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Projects Unsupported	2011 	2012 		2013 	2014 	2015	3/2	2016			19.
Were cost estimates confirmed by another source? Are cost estimates based on industry standards? Will city employees be performing any portion of the work? Did you perform a cost/benefit analysis?				Yes Yes Yes Yes	☑ No □ No □ No	Uncertain Uncertain Uncertain Uncertain					
How will this project impact city operating	ı expenditu	ures?	i	☐Increase	☑ Dec	rease 🔲 No	ne				
stimated Start Date:	01/01/1	1									
stimated Completion Date:											
			De	partment l		nature —		W			
			Pre	epared By		•	nah G. (Gant/3867	(%) 		

2011-2016

BACKUP POWER GENERATION

Pro	pject/Program Title: 2011-16 Backup Power Generation Requesting Department: DPW/Mllwaukee Water Works
Pre	epared By/Phone Ext: Dinah G. Gant/3867 Department Head Signature:
۶	ount No: 04206410R999 04206410R999
A)	Department Priority of Useful Life Years Level of Need Essential
	Type of Project ☐ New ☐ Replacement ☐ Repair Project/Program Scope ☐ Fully Defined ☑ Partially Defined ☑ On-Going Program
В)	Description infrastructure Street Related Sewer ✓ Water Street Lighting Communications Recreation Sidewalks Alleys Bridge Environmental Port Parking Building Roof Windows HVAC Electrical Restroom Security Exterior Entire Facility ADA Office Remodeling New Building Elevators Garage Mechanical
	Miscellaneous Development Economic Information Systems Equipment Other
C)	Project/Program Duration One Year Yes No On-Going Program Yes No Multi-Year Yes No Number of Years
D,	Total Positions Total FTEs Position Title Please See Attached No. of Positions FTEs Salaries \$ BMD-52 Water Eng A.xls \$ \$ \$ \$ \$
E)	In Six Year Capital Improvement Plan Yes ☐ 2009-2014 ☐ 2010-2015 ☑ Yes, Modified ☑ New Request
F)	Project/Program Justification During the 2008 Milwaukee Water Works Capital Improvement Budget deliberations, the Common Council allowed for funding of the provision of backup electric power generation for Milwaukee Water Works major treatment plant and pumping facilities. The Riverside Pumping Station Project will begin Construction In 2010; Florist is projected to begin construction in 2012 with other locations to be scheduled.
G)	Additional Comments There are no new projects scheduled in the 2011 program year. The utility is continuing with engineering and project activities currently under contract.

Requesting Department:	PUBLIC WORK	KS - Milwaukee W	ater Works					
Project/Program Title:	2011 2012 2013 2014 2015 2016							
Year	<u>1</u>	ax Levy/Borrow	ng Gra	nt & Ald	Revenue	•	Enterprise	Total Cost
Remaining Balance for 2010		•					\$0	\$0
2011 Budget Request	Γ						\$0	\$0
2012 Projection							\$4,700,000	\$4,700,000
2013 Projection	Γ						\$1,300,000	\$1,300,000
2014 Projection	Γ						\$6,000,000	\$6,000,000
2015 Projection		······································					\$0	\$0
2016 Projection							\$0	\$0
Total Six Year Cost	Ī	\$	0	\$0	\$0	\$0	\$12,000,000	\$12,000,000
Total Project Cost		\$	0	\$0	\$0	\$0	\$12,000,000	\$12,000,000
l ife to Data Evnenditures (Project	Year Tax Levy Borrowing Grant & Ald Revenue Assessment Enterprise Total Commission Special Assessment Enterprise Special Assessment Enterprise Total Commission Special Assessment Enterprise Total Commission Special Assessment Enterprise Total Commission Special Assessment Enterprise Special Assessment Enterprise Special Assessment Enterprise Special Assessment Enterprise Total Commission Special Assessment Enterprise Total Commission Special Assessment Enterprise Enterprise Enterprise Special Assessment Enterprise Enterprise	-						
Life to Date Expenditures (Project	Only)	2	<u>ا ا</u>	20	\$(7 \$0	\$0	\$0
Avallable Cost Estimate:	2011	2012	2013	2014	4 2015	2016		
Thorough Cost Estimate								
Limited Information								
	_	7	V	V	v	v		
Unsupported								
Were cost estimates confirmed by	another source	?	□Ye	s 🗹 No	Uncertain			
Are cost estimates based on indus	stry standards?		☑ Ye	s □No	Uncertain			
Will city employees be performing	any portion of t	ne work?	 ✓ Ye	s 🗆 No	Uncertain			
Did you perform a cost/benefit and	alysis?		☐Ye		Uncertain			
How will this project impact city op	erating expendi	tures?	□Inc	rease 🗹 D	ecrease None			
Estimated Start Date:	01/01/	<u> 11</u>						
Estimated Completion Date:								
			Departr	nent Head Si				
			Date	d bures -	•	0.040007		
			⊢repare	a partuone	ext <u>Dinah</u>	G. Gantisto/		

2011-2016

CONTINGENCIES

Pro	ect/Program Title: 2011-16 Capital Projects Contingencies Requesting Department: DPW/Mitwaukee Water Works	_
Pre	pared By/Phone Ext: Dinah G. Gant/3867 Department Head Signature:	_
. .	ount No: 04206410R999	
A)	Department Priority of Useful Life Years Level of Need ☐ Essential ☑ Important ☐ Desired	
	Type of Project ☐ New ☐ Replacement ☐ Repair Project/Program Scope ☐ Fully Defined ☐ Partially Defined ☐ On-Going Program	
В)	Description Infrastructure Street Related Sewer ✓ Water Street Lighting Communications Recreation Sidewalks Alleys Bridge Environmental Port Parking Building Roof Windows HVAC Electrical Restroom Security Exterior ✓ Entire Facility ADA Office Remodeling New Building Elevators Garage Mechanical Miscellaneous Development Economic Information Systems Equipment Other	
ļ	☐ Economic ☐ Information Systems ☐ Equipment ☐ Other	닉
C)	Project/Program Duration One Year ☐ Yes ☐ No On-Going Program ☑ Yes ☐ No Multi-Year ☐ Yes ☐ No Number of Years	
D)	Total Positions Total FTEs	
_,	Position Title Please See Attached No. of Positions FTEs Salaries \$ \$ \$ \$	
E)	In Six Year Capital Improvement Plan Yes ☐ 2009-2014 ☐ 2010-2015 ☐ Yes, Modified ☑ New Request	
F)	Project/Program Justification Contingency authorization enables capital improvements to be made In projects where unforeseen conditions or unexpected consequences could compromise the utility's ability to provide sufficient quantity and quality of water, or for projects for which there was insufficient cost information available by budgeting deadlines.	
G)	Additional Comments	
		·

Requesting Department: PUB	LIC WOR	KS - Milwaukee	Water	Works					
Project/Program Title: 2011	-16 Capit	al Project Contir	ngencie	es		Account N	Uncertain Uncertain Uncertain E		
Year		Tax Levy/Borro	owing	Grant	& Ald	Revenue	•	Enterprise	Total Cost
Remaining Balance for 2010				-				\$0	\$0
2011 Budget Request								\$0	\$0
2012 Projection	Į							\$1,000,000	\$1,000,000
2013 Projection								\$0	\$0
2014 Projection	[\$2,000,000	\$2,000,000
2015 Projection	[<u> </u>						\$0	\$0
2016 Projection								\$2,000,000	\$2,000,000
Total Six Year Cost			\$0		\$0	\$0	\$0	\$5,000,000	\$5,000,000
Total Project Cost	[\$0		\$0	\$0	\$0		\$5,000,000
	-								-
Life to Date Expenditures (Project Only)			\$0		\$0	\$0	\$0	\$0	\$0
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Projects Unsupported	2011 	2012 		2013	2014 				
Were cost estimates confirmed by anoth Are cost estimates based on industry sta Will city employees be performing any p Did you perform a cost/benefit analysis?	andards? ortion of t			Yes Yes Yes Yes	☑ NO □ NO □ NO ☑ NO	Uncertain Uncertain Uncertain Uncertain			
How will this project impact city operating	g expendi	tures?		□Increa	se 🗹 De	crease None			
Estimated Start Date:	0 1/01/	11							
Estimated Completion Date:									
			C	epartme	nt Head Sig				
			P	repared E	3y/Phone E	xt Dinah G.	Gant/3867		
				, ,					

Capital Improvement Request Form Part I Central Library Program -Project/Program Title: Requesting Department: \(\) Milwaukee Rublic Library Interior Improvements Segment Prepared By/Phone Ext: Taj Schoening, ext. 3024 Department Head Signature: Account No: LB141110100 Level of Need _ Essential Department Priority Useful Life Varies Years ✓ Important □ Desired Type of Project New Replacement Repair Project/Program Scope Fully Defined Partially Defined ✓ On-Going Program B) Description Infrastructure Street Related Sewer Street Lighting ☐ Communications Recreation Water Sidewalks ☐ Alleys ☐ Bridge Environmental ☐ Parking Building Restroom ☐ Security Exterior ✓ Entire Facility Roof Windows HVAC Electrical √ ADA ✓ Office Remodeling New Building Elevators ☐ Garage Mechanical Miscellaneous Development Economic ☐ Information Systems Equipment ✓ Other Door Key System Project/Program Duration C) Yes One Year ✓ No ✓ Yes On-Going Program □No Multi-Year ☐ Yes ✓ No Number of Years **Total FTEs Total Positions** D) No. of Positions Position Title E) In Six Year Capital Improvement Plan ✓ Yes, Modified New Request F) Project/Program Justification This segment of the Central Library Program encompasses restoration, preservation, and renovation of the interior of the building. The work includes repairs to mosaic tile and scagliola in the rotunda; renovation, upgrades and modernization; lighting upgrades; as well key access. As a public and historic building it is imperative that the City maintain and restore the interior of the building. The Central Library is a significant factor in the vitality of Milwaukee as well as the region receiving over 500,000 visitors each year. The impact from such a high level of use by the public necessitates a scheduled repair and replacement program. While the life of carpet, hard surface flooring and paint are extended by repairing damaged areas the constant traffic wears areas out that often create tripping hazards. In the main rotunda portions of Library the mosaic tiles have popped out and many areas of the scagliola columns have cracked or pulled away from the substrate. The Library's approach to restoration of the scagliola and mosaic tile is to systematically repair sections of these areas every year. G) **Additional Comments** The Central Library uses a manual key system for all interior and exterior door locks. Access is controlled by creating different "change" keys for doors. The lock company has informed us that our system is very close to the maximum threshold for key variations. To improve security and

eliminate the need to make new keys and rekey door locks we are proposing installation of a card access system. This type of system allows the Library to issue access cards to library staff that can be programmed to limit access and easily make changes, rather than issuing multiple keys. In 2011 and 2012 we have requested funding to install a new card access system. In addition to the final phase if the key system change in 2012 we will upgrade staff work areas on the third floor that have not been updated since the 1960's. Painting and carpeting upgrades are based on a fifteen year cycle and condition of the area. In 2013 and 2014 we will replace carpeting on the first floor that was installed in 1996 and 1998. In 2015 the the Business, Science and Technology area which was renovated in 2000 will be recarpeted and painted. In 2016 we will have the dome in the main

rotunda repaired and repainted.

Requesting Department: _	Milwaukee Public Library									
Project/Program Title:	Central Library	Program - Interior Imp	rovements S	Segment	Account No: LB141110100					
Year		Tax Levy/Borrowing	Grant 8	& Aid	Revenue		Special Assessment	Enterprise	Total Cost	
Remaining Balance for 2010				<u> </u>					\$0	
2011 Budget Request		\$400,000			· · · · · · · · · · · · · · · · · · ·				\$400,000	
2012 Projection		\$1,225,000							\$1,225,000	
2013 Projection		\$400,000							\$400,000	
2014 Projection		\$400,000						·	\$400,000	
2015 Projection		\$525,000					-		\$525,000	
2016 Projection		\$500,000							\$500,000	
Total Six Year Cost		\$3,450,000		\$0		\$0	\$0	\$0	\$3,450,000	
Total Project Cost		\$3,450,000		\$0		\$0	\$0	\$0	\$3,450,000	
•			<u> </u>						-	
Life to Date Expenditures (Project	t Only)	\$0		\$0		\$0	\$0	\$0	\$0	
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Project Unsupported	2011 	1 2012 □ □	2013	2014	2015		2016		: .	
Were cost estimates confirmed by Are cost estimates based on indu Will city employees be performing Did you perform a cost/benefit an	stry standards? any portion of tl		✓ Yes ✓ Yes ☐ Yes ☐ Yes	□ No □ No ☑ No ☑ No	Uncertain Uncertain Uncertain Uncertain					
How will this project impact city o	perating exp e ndi	itures?	☐ Increa	ise 🗆 D	ecrease 🔽 N	one				
Estimated Start Date:	Ongo	oing					Λ			
Estimated Completion Date:	Ongo	oing			. \		/\ /		,	
		•	Departmen	t Head Sig	nature 📐		quela	1 Dec	4/	
			Prenared F	Sv/Phone F	xt (T	i S c hoe	ening ext. 3024	•		

Capital Improvement Request Form Part I Central LibraryProgram -Requesting Department: Milwaukee Public Library Project/Program Title: Exterior Improvements Segment Department Head Signature: Prepared By/Phone Ext: Taj Schoening, ext. 3024 Account No: LB141110100 Level of Need Essential Department Priority 3 of 7 Useful Life Varies Years ☐ Important ☐ Desired Type of Project ☐ New ☐ Replacement ☐ Repair Project/Program Scope Fully Defined Partially Defined ✓ On-Going Program B) Description Infrastructure Communications Recreation Street Related Sewer Water Street Lighting Sidewalks ■ Environmental Parking ☐ Alleys ☐ Bridge Building Roof ✓ Windows HVAC Electrical Restroom Security Exterior Entire Facility ADA Office Remodeling New Building Elevators Garage Mechanical Miscellaneous Development Equipment Economic ☐ Information Systems ☐ Other Project/Program Duration ☐ Yes ✓ No One Year On-Going Program ✓ Yes □No Yes Multi-Year ☑ No Number of Years **Total FTEs** D) Total Positions No. of Positions Position Title In Six Year Capital Improvement Plan E) Yes Yes, Modified New Request √ 2009-2014 2010-2015 Project/Program Justification This segment of the Central Library Program encompasses the exterior facade of the Central Library (limestone block and balusters, Chicago brick, marble block, windows, lighting, and roofs). Years of weathering has resulted in cracks, which allow moisture to seep behind stone and masonry surfaces, eroding the joints and breaking off pieces of the stone detail. The Library has approached preservation of the exterior by systematically repairing sections of the building. Tuckpointing and replacement of stone or brick extends the life of the structure and avoids increased damage and possible injury from falling debris. Repairs will last for about 50 vears. G) Additional Comments The interior courtyards had tuckpointing and brick repairs done in prior years. In 2008 the Wisconsin Avenue facade was repaired, which included replacement of entry sills and many stone balusters. In 2010 renovation work will be completed on the Centennial Hall ADA entry and the drive through. In 2010 the exterior will also be repainted. Budget requests for 2011 through 2014 reflect continuation of the masonry repairs. The budget request for 2016 reflects replacement of the remaining roofs. All of this work is absolutely critical to preserve the building structure.

Requesting Department: _	Milwaukee Pub	olic Library							
Project/Program Title:	Central Library	Program - Exterior Im	provements S	nts Segment Account No: LB141110100					
Year		Tax Levy/Borrowing	Grant 8	k Aid	Revenue	Special Assessment	Enterprise	Total Cost	
Remaining Balance for 2010								\$0	
2011 Budget Request		\$100,000				· · · · · · · · · · · · · · · · · · ·		\$100,000	
2012 Projection		\$100,000						\$100,000	
2013 Projection		\$130,000						\$130,000	
2014 Projection		\$130,000						\$130,000	
2015 Projection		\$0						\$0	
2016 Projection		\$900,000						\$900,000	
Total Six Year Cost	٠	\$1,360,000		\$0	\$0	\$0	\$0	\$1,360,000	
Total Project Cost		\$1,360,000		\$0	\$0	\$0	\$0	\$1,360,000	
		<u></u>						-	
Life to Date Expenditures (Project	Only)	\$0		\$0	\$0	\$0	\$0	\$0	
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Project Unsupported	201: 	1 2012	2013	2014 	2015	2016			
Were cost estimates confirmed by Are cost estimates based on indu- Will city employees be performing Did you perform a cost/benefit and	stry standards? any portion of t		☐ Yes ☑ Yes ☐ Yes ☐ Yes	✓ No ✓ No ✓ No ✓ No	Uncertain Uncertain Uncertain Uncertain			•	
How will this project impact city of	perating expend	itures?	Increa	se Do	ecrease 🗹 None				
Estimated Start Date:	Ongo	oing				1		1	
Estimated Completion Date:	Ong	oing	Departmen	t Hoad Sim	natura		X.	, ,	
			Prepared 8			pening, ext. 3024		8	

Capital Improvement Request Form Part I Central Library Program -Project/Program Title: Mechanicals Improvements Segment Requesting Department: Milwaukee Public Library Prepared By/Phone Ext: Taj Schoening, ext. 3024 Department Head Signature: Account No: LB141110100 **Department Priority** of 7 Useful Life Varies Years Level of Need Essential ☐ Important ☐ Desired New ✓ Replacement ✓ Repair Type of Project Project/Program Scope Fully Defined Partially Defined ✓ On-Going Program B) Description Infrastructure Street Related Sewer Street Lighting Water ___ Communications Recreation Sidewalks Alleys ☐ Environmental Parking Bridge Building Roof Windows ☑ HVAC ✓ Electrical √ Security Restroom Exterior Entire Facility ☐ ADA Office Remodeling ☐ New Building ✓ Elevators Garage ✓ Mechanical Miscellaneous Development ☐ Economic Information Systems Equipment Other Project/Program Duration C) One Year Yes ✓ No On-Going Program ✓ Yes ☐ No Multi-Year ☐ Yes √ No Number of Years D) **Total Positions** Total FTEs 0.2 Position Title No. of Positions Business Operations Manager **FTEs** Salaries In Six Year Capital Improvement Plan E) Yes ✓ 2009-2014 Yes, Modified 2010-2015 New Request Project/Program Justification This segment of the Central Library Program addresses the building's equipment and systems responsible for the safety and comfort of building occupants: HVAC, electrical, building controls, fire safety, security and elevators. The useful life of major HVAC equipment, electrical transformers and elevators ranges from 35 to 50 years, building management controls and security systems about 15 years. Updating aged equipment with new technology lowers energy use and repair costs. The Central Library uses 7 chillers and 1 cooling tower to cool the building. The oldest chiller was installed in 1985 and the cooling tower in 1970. The HVAC system uses 24 air handling units; seven of them installed in 1955. Replacement of these units with new equipment using variable air volume and new controls will improve energy efficiency. There are four elevators original to the 1953 annex. They are not ADA compliant and parts are increasingly difficult to obtain. **Additional Comments** The Library has two fire alarm systems in the building. During the renovations of the public areas the portion of the fire alarm system in those areas was upgraded, adding horns and strobes to meet ADA and linking it to the building management system. The non-public floors have never been renovated and continuing budget constraints have postponed upgrades. The non-public floors still need to have strobes added and be linked to the building management system which allows identification of the exact location of the alarm for the Fire Department. The capital plan has scheduled replacement of air handling units in 2011, 2012 and 2014; upgrades to the fire alarm system in 2013; replacement of the cooling tower in 2013; a chiller in 2016; upgrading the elevators between 2013 and 2016; and addressing the need to improve the environmental conditions for material preservation in the tiers in 2014.

Project/Program Title: Central Library Program - Mechanicals Improvements Segment Account No: LB141110100 Special	Fotal Cost
Special	Fotal Cost
	otal Cost
Remaining Balance for 2010	\$0
2011 Budget Request \$226,000	\$226,000
2012 Projection \$237,000	\$237,000
2013 Projection \$1,028,000	\$1,028,000
2014 Projection \$2,029,000	\$2,029,000
2015 Projection \$30,000	\$30,000
2016 Projection \$650,000	\$650,000
Total Six Year Cost \$4,200,000 \$0 \$0 \$0 \$0	\$4,200,000
Total Project Cost \$4,200,000 \$0 \$0 \$0 \$0	\$4,200,000
	-
Life to Date Expenditures (Project Only) \$0 \$0 \$0 \$0 \$0	\$0
Available Cost Estimate: 2011 2012 2013 2014 2015 2016 Thorough Cost Estimate	,
Thorough Cost Estimate	
Based on Cost of Similar Projects	
Unsupported	
Were cost estimates confirmed by another source? ☐ Yes ☑ No ☐ Uncertain	
Are cost estimates based on industry standards? Yes No Uncertain	
Will city employees be performing any portion of the work?	
Did you perform a cost/benefit analysis?	
How will this project impact city operating expenditures? ☐ Increase ☐ Decrease ☐ None	
Estimated Start Date: Ongoing	•
Estimated Completion Date: Ongoing	
Department Head Signature	
Prepared By/Phone Ext Tai Schoening ext 3024	

Capital Improvement Request Form Part I Neighborhood Library Program -Requesting Department: Milwaukee Rublic Library Project/Program Title: **New Construction Segment** Taj Schoening, ext. 3024 Department Head Signature: Prepared By/Phone Ext: Account No: LB145110100 Level of Need Essential Department Priority of 7 Useful Life 40 Years ✓ Important Desired Type of Project New Replacement Repair Project/Program Scope ☐ Fully Defined ✓ Partially Defined On-Going Program B) Description Infrastructure Communications Recreation Street Related Street Lighting Sewer Water Parking ☐ Environmental Port Sidewalks ☐ Alleys Bridge **Building** Security Exterior ✓ Entire Facility Roof HVAC Electrical Restroom Windows New Building Elevators Garage Mechanical ADA Office Remodeling Miscellaneous Development Equipment Other Economic Information Systems Project/Program Duration √ No Yes One Year Yes ✓ No On-Going Program Multi-Year √ Yes □No Number of Years Total Positions Total FTEs D) No. of Positions Position Title In Six Year Capital Improvement Plan E) New Request Yes Yes, Modified 2009-2014 2010-2015 F) Project/Program Justification This segment of the Neighborhood Library Program addresses the need for new library models. Seven branch libraries were built in the mid to late 1960s. All of the HVAC systems are original and have outlasted their service life. In some cases, the buildings do not justify investment needed for HVAC replacements and renovations. In conjunction with a facilities plan that looks to the future of the system, MPL will replace some buildings using mixed-use or Area Library models. These new buildings will be much more energy efficient and flexible, able to be adapted to meet changing needs of citizens and technology. In 2010 and 2011 a new Villard Library will be constructed in a mixed-use building. The 2011 and 2012 budget requests include an area library for the northwest side of the City, a mixed-use library on the east side, and two express centers. In 2014 and 2015 the budget request includes a second area library to be constructed on the south side of the City. A third mixed use library building is budgeted to begin in 2016. G) **Additional Comments** The mixed-use model will serve as an anchor of learning in targeted areas to support early literacy, educational attainment, workforce development and small business development. These "Learning Campus" libraries will be mid-sized with specialized collections and individual and group study spaces to support the learn and earn strategy. Area libraries will be strategically placed to serve those patrons with a high level of demand for reference, training, and collection-related services. Circulation of materials will be high, as will attendance at programs and use of available technology. All new libraries will provide fexible space, ample access to technology, and sustainable features.

Requesting Department: _	Milwaukee Pul	blic Library										
Project/Program Title:	Neighborhood Li	ibrary Program - New	Construction Se	egment	Account No	Account No: LB145110100						
Year		Tax Levy/Borrowi	ng Gran	t & Aid	Revenue	Special Assessment	Enterprise	Total Cost				
Remaining Balance for 2010							-	\$0				
2011 Budget Request	;	\$2,300,00	00		\$1,000,000			\$3,300,000				
2012 Projection		\$7,300,00	00					\$7,300,000				
2013 Projection		9	60					\$0				
2014 Projection	,	\$1,000,00	00					\$1,000,000				
2015 Projection	•	\$6,000,00	00		11.11.11.11.11.11.11.11.11.11.11.11.11.			\$6,000,000				
2016 Projection		\$500,00	00			<u></u>	a.	\$500,000				
⊤otal Six Year Cost		\$17,100,00	00	\$0	\$1,000,000	\$0	\$0	\$18,100,000				
Total Project Cost		\$17,100,00	00	\$0	\$1,000,000	\$0	\$0	\$18,100,000				
				•	,		·	-				
Life to Date Expenditures (Project	Only)	4	60	\$0	\$0	\$0	\$0	\$0				
			1	<u>'</u>	_							
Available Cost Estimate: Thorough Cost Estimate	201	•	2013	2014		2016						
Limited Information												
Based on Cost of Similar Project		▽										
Un s upported												
Were cost estimates confirmed by	another source	?	Yes	☑ No	Uncertain							
Are cost estimates based on indus	stry standards?		☑ Yes		Uncertain							
Will city employees be performing	any portion of t	he work?	☐ Yes	☑ No	Uncertain							
Did you perform a cost/benefit and	alysis?		✓ Yes	☐ No	Uncertain			·				
How will this project impact city or	perating expend	itures?	☐ Incr	ease 🗸 🖸	Decrease None							
						Λ	a					
Estimated Start Date:	201	10										
Estimated Completion Date:	201	17			V	/) / <	1					
			Departme	ent Head Sig	nature	aula	(b Decl	<u> </u>				
			Prenared	By/Phone F	tyt (Tai Scho	ening ext 3024	(/				

Capital Improvement Request Form Part I Neighborhood Library Program -Project/Program Title: Interior Improvements Segment Requesting Department: Milwaukee Public Library Department Head Signature: Prepared By/Phone Ext: Taj Schoening, ext. 3024 Account No: LB145110100 Level of Need Essential Department Priority 7 of 7 Useful Life Varies Years ✓ Important Desired Type of Project New Replacement Repair Project/Program Scope Fully Defined Partially Defined ✓ On-Going Program Description B) Infrastructure Street Related Street Lighting Communications Sewer Water Recreation Sidewalks ☐ Alleys Environmental Port Parking ☐ Bridge Building Roof Windows ☐ HVAC Electrical Restroom Security Exterior ✓ Entire Facility √ ADA ✓ Office Remodeling ■ New Building ■ Elevators ☐ Garage Mechanical Miscellaneous Development Economic ☐ Information Systems Equipment Other C) Project/Program Duration One Year Yes ✓ No On-Going Program ✓ Yes ☐ No Multi-Year ☐ Yes ✓ No Number of Years **Total FTEs** D) **Total Positions** Position Title No. of Positions **FTEs** E) In Six Year Capital Improvement Plan Yes 2009-2014 **✓** 2010-201S ✓ Yes, Modified New Request Project/Program Justification F) This segment of the Neighborhood Library Program encompasses preservation and upgrade of the interiors of the branch libraries. The work includes interior renovations and lighting as well as re-carpeting and painting. Each branch library is a significant factor in the vitality of its neighborhood. As public buildings it is imperative that the buildings continue to be maintained and modernized. Painting and re-carpeting are scheduled on a 15 to 18 year basis due to the number of people using the buildings. An average of about 150,000 people use a branch library every year. Five of our current branch libraries built in the late 1960's and early 1970's have never been renovated. Additional Comments In 2016 we have scheduled updating the interior of the Center Street Library.

Requesting Department: _	Milwaukee Publ	ic Library								
Project/Program Title:	Neighborhood Lib	rary Program - Interior In	nprovements	Segment	Account N	lo: LB14511010	LB145110100			
Year		Tax Levy/Borrowing	Grant &	& Aid	Revenue	Special Assessment	Enterprise	Total Cost		
Remaining Balance for 2010	[<u> </u>						. \$0		
2011 Budget Request		\$0						\$0		
2012 Projection		. \$0						\$0		
2013 Projection		\$0						\$0		
2014 Projection		\$0						\$0		
2015 Projection	ļ	\$0						\$0		
2016 Projection		\$800,000						\$800,000		
Total Six Year Cost		\$800,000		\$0	\$0	\$0	\$0	\$800,000		
Total Project Cost		\$800,000		\$0	\$0	\$0	\$0	\$800,000		
								_		
Life to Date Expenditures (Project	t Only)	\$0		\$0	\$0	\$0	\$0	\$0		
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Projection	2011	2012 	2013	2014	2015 	2016				
Were cost estimates confirmed by Are cost estimates based on indu Will city employees be performing Did you perform a cost/benefit an	istry standards? g any portion of th		☐ Yes ☑ Yes ☐ Yes ☐ Yes	☑ No ☐ No ☑ No ☑ No	Uncertain Uncertain Uncertain Uncertain					
How will this project impact city o	perating expendit	ures?	Increa	se 🗌 De	ecrease	Λ				
Estimated Start Date:	Ongo	ing								
Estimated Completion Date:	Ongo	ing			<u> </u>	/)/_				
			Departmen	ıt Head Sigr	nature	aula 1	1 July	<u> </u>		
			Prepared 5	Sv/Phone Ex	ct Tai Sch	oening, ext. 3024				

Capital Improvement Request Form Part I Neighborhood Library Program -Requesting Department: Milwankee Public Library Project/Program Title: Exterior Improvements Segment Department Head Signature; Prepared By/Phone Ext: Taj Schoening, ext. 3024 **Account No:** LB145110100 Level of Need Essential Useful Life Varies Years Department Priority 6 **of** 7 ✓ Important Desired Type of Project ☐ New ☑ Replacement ☑ Repair Project/Program Scope Fully Defined Partially Defined ✓ On-Going Program B) Description Infrastructure Communications Recreation Street Related Sewer Street Lighting ☐ Water ☐ Environmental ☐ Port ✓ Parking ☐ Sidewalks ☐ Alleys Bridge Building ✓ Roof ✓ Windows HVAC Electrical Restroom Security Exterior Entire Facility ADA Office Remodeling New Building Elevators Garage Mechanical Miscellaneous Development Equipment Economic Information Systems Other Project/Program Duration Yes ☑ No One Year On-Going Program ✓ Yes ☐ No Multi-Year Yes ☑ No Number of Years **Total FTEs** D) **Total Positions** No. of Positions **FTEs Position Title** In Six Year Capital Improvement Plan E) Yes ✓ Yes, Modified New Request 2009-2014 2010-2015 Project/Program Justification F) This segment of the Neighborhood Library Program encompasses maintenance of the exterior facades of the branch libraries. The work includes repair and/or replacement of masonry, wood, windows, lighting, roofs, signage, and parking lots. Exterior elements have varied life spans. Windows and flat roofs can last 20 to 25 years while exterior paint lasts about 8 years. Parking lot surfaces, signage and lighting can be repaired but must be replaced after about 25 years. The useful life of masonry and concrete varies depending on location and weather. Many of the parking lots have been resurfaced several times and are at the end of their life. G) **Additional Comments** In 2014 the roof of the Center Street Library is scheduled for replacement.

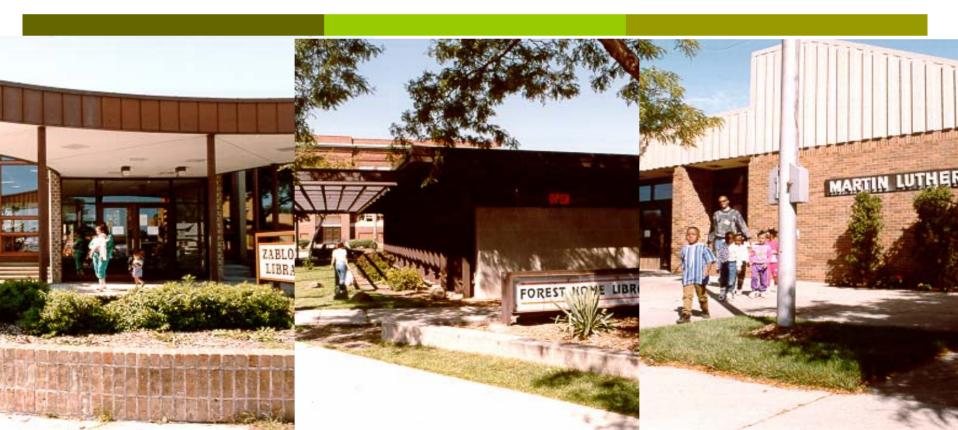
Requesting Department:	Milwaukee Public Library											
Project/Program Title:	Neighborhood L	gram - Exterio	or Imp	orovements	Segment	Acc	ount No	LB1451101	LB145110100			
Year		Tax Lev	/y/Borrowin	ıg	Grant a	& Aid	Revenu	e	Special Assessment	Enterprise	Total Cost	
Remaining Balance for 2010											\$0	
2011 Budget Request			\$0	0							\$0	
2012 Projection			\$0	o							\$0	
2013 Projection			\$0	0			·				\$0	
2014 Projection			\$175,000	0							\$175,000	
2015 Projection			\$0	0							′\$0	
2016 Projection			\$0	0							\$0	
Total Six Year Cost			\$175,000	0 .		\$0		\$0	\$0	\$0	\$175,000	
Total Project Cost			\$175,000	0		\$0		\$0	\$0	\$0	\$175,000	
		•						•			-	
Life to Date Expenditures (Projec	t Only)		. \$0	0		\$0		\$0	\$0	\$0	\$0	
Available Cost Estimate: Thorough Cost Estimate Limited Information Based on Cost of Similar Proje Unsupported	201		2012		2013	2014	201	 	2016			
Were cost estimates confirmed be Are cost estimates based on indu Will city employees be performin Did you perform a cost/benefit ar	ustry standards? g any portion of	•	. .		Yes Yes Yes Yes	☑ No ☑ No ☑ No	Uncertair Uncertair Uncertair	1		· ·		
How will this project impact city of	perating expend	ditures?	·		☐ Increa	se 🗌 D	ecrease 🗾	None	A		·	
Estimated Start Date: Ongoing			•					/\-				
Estimated Completion Date:	Ong	joing		D	Department Head Signature							
				Pi	repared B	y/Phone E	xt /1	「aj Schoer	ning, ext. 3024			

Capital Improvement Request Form Part I Neighborhood Library Program -Project/Program Title: Mechanicals Improvements Segment Requesting Department: , Milwaukee Public Libran Department Head Signature. Tai Schoening, ext. 3024 Prepared By/Phone Ext: Account No: LB145110100 5 of 7 Useful Life Varies Years Level of Need Essential ✓ Important Desired Department Priority Type of Project New Replacement Repair Project/Program Scope Fully Defined Partially Defined ✓ On-Going Program Description B) Infrastructure Street Related Street Lighting Communications Recreation Sewer 🔲 Water Parking Sidewalks Alleys Environmental Port Bridge Building Restroom Exterior ✓ HVAC ✓ Electrical ✓ Security Entire Facility Roof Windows New Building ✓ Elevators Garage ✓ Mechanical □ ADA Office Remodeling Miscellaneous Development Equipment Economic ☐ Information Systems Other Project/Program Duration C) Yes [√] No One Year √ Yes On-Going Program ☐ No ☑ No Number of Years Multi-Year Yes **Total FTEs Total Positions** D) Position Title No. of Positions In Six Year Capital Improvement Plan E) Yes Yes, Modified New Request 2009-2014 2010-2015 Project/Program Justification F) This segment of the Neighborhood Library Program addresses the building equipment and systems responsible for the safety and comfort of building occupants; HVAC, electrical, building controls, fire safety, and security. The useful life of major HVAC equipment is about 35 years, building management controls and security systems about 15 years. The Library has seven branches that were built between 1964 and 1971. All of the HVAC systems are original and have outlasted their service life. The frequency of major repairs and equipment breakdown has increased. This equipment must be addressed within the next three to five years to avoid breakdowns that will require emergency replacement. New equipment is much more energy efficient, helping the Library meet the Mayor's mandate to reduce energy consumption in city buildings. In 2005 MPL started converting the building management controls to web based protocol. Where possible conversion will take place as part of HVAC upgrades. **Additional Comments** Replacement of the HVAC system at the Tippecanoe Library is budgeted in 2013 due to its age and the location of the equipment in the ceiling.

Requesting Department: _	Milwaukee Pu	blic Library			<u></u>	. No. LB14511	0100			
Project/Program Title:	Neighborhood L	ibrary Program - Mechan	icals Improvem	ents Segment	Account	. NO.		· · · · · · · · · · · · · · · · · · ·		
Year	•	Tax Levy/Borrowing	Grant 8	& Aid	Revenue	Special Assessment	t Enterprise	Total Cost		
Remaining Balance for 2010		, tast 201, 1 = 0.10						\$0		
2011 Budget Request		\$0			* 1			\$0		
2012 Projection		\$0					·	\$0		
2013 Projection		\$875,000						\$875,000		
2014 Projection		\$0						\$0		
2015 Projection		\$0						\$0		
2016 Projection		\$0			<u></u>			\$0		
Total Six Year Cost		\$875,000		\$0	\$	0	\$0 \$0	\$875,000		
Total Project Cost		\$875,000		\$0	\$	0	\$0 \$0	\$875,000		
		r	T			_ 1				
Life to Date Expenditures (Project	Only)	\$0	<u> </u>	\$0		0	\$0 \$0	\$0		
Available Cost Estimate: Thorough Cost Estimate Limited Information	201		2013	2014	2015 	2016 		•		
Based on Cost of Similar Project Unsupported	ts 🗍									
Were cost estimates confirmed by Are cost estimates based on industrial Will city employees be performing Did you perform a cost/benefit and	stry standards? any portion of	•	☐ Yes ☑ Yes ☐ Yes ☐ Yes	✓ No ✓ No ✓ No	Uncertain Uncertain Uncertain Uncertain					
How will this project impact city or	perating expend	ditures?	Increa	ase 🗸 Dea	crease 🗌 None	\wedge				
Estimated Start Date: Ongoing						/	$\overline{)}$			
Estimated Completion Date: _	Ong	going	Department Head Signature							
			Prepared E	3v/Phone Ex	t Tai S	choening, ext. 3024	. (<i>'</i>		

Rethinking Libraries . . .





... For the 21st Century





History

- 1878 Library Founded
- 1898 Central Library opens
- □ 1940 Time of growth
 - 587,472 residents over 43.4 square miles
 - 17 small branch libraries
- 1953-1971 (10-year building plan)
 - 741,324 residents (+26.20%) over 91.1 square miles (+109%)
 - 12 full service neighborhood libraries
 - 3 bookmobiles
- 1988 2009 10-year renovation plan
 - 602,191 residents (-18.20%)
 - 12 neighborhood libraries

Current Inventory

- Nine libraries built between 1961 and 1971
- Seven branch libraries in need of new HVAC systems approximate cost \$750,000 each, totaling approximately \$5.3 million:

1961 – Atkinson

1963 - Zablocki

1964 - Capitol

1966 - Forest Home

1968 - East

1968 - Villard Ave.

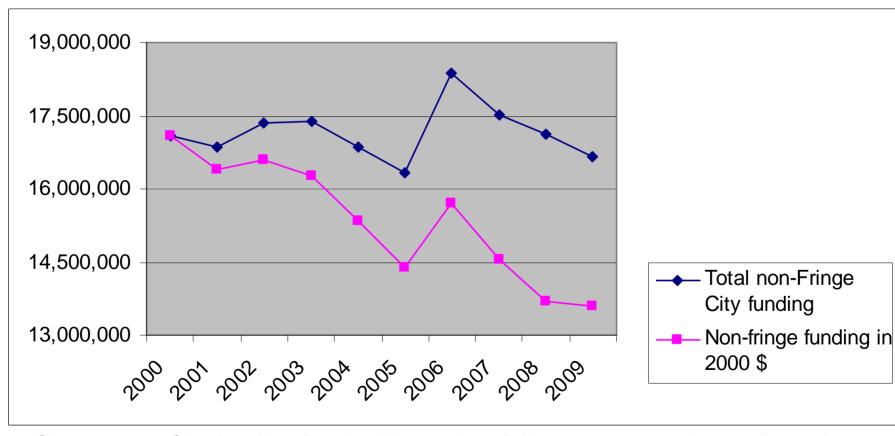
1969 - Tippecanoe

1970 - Mill Road

1971 - Martin Luther King



Library operating budget 2000-2009



Since 2000, City funding for the Library has fallen over 20% when adjusted for inflation.

Then & Now

Then

- Books & Magazines
- LPs
- Reference

New Services Added

- Audio & E-Books
- CDs, DVDs, Downloads
- 400+ Computers
- Wireless Internet
- Website
- Digital Collections
- Subscription databases
- Virtual Reference 24/7

Planning 2007-2010

- 2007 demographic studies, community surveys, focus groups
- 2008 30 Community Leaders developed 4 big ideas for planning purposes
 - Expand Partnerships and <u>Pursue Co-Location</u>
 - Redefine Service Concept Integrate services into what patrons do: via the web, in buildings, and at satellite locations
 - Libraries Should Become <u>Anchors of Learning Campuses</u>
 - Pursue Big Ideas not incremental changes

Planning 2007-2010

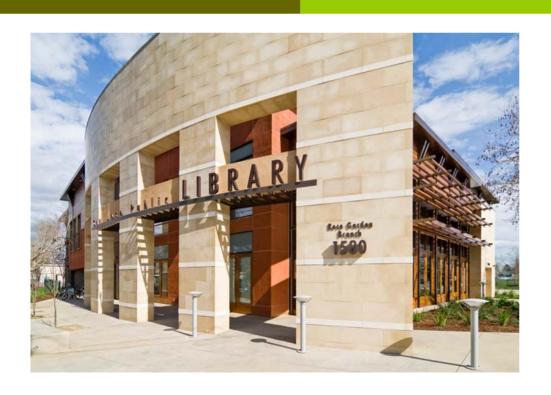
- 2008 An Innovation and Strategy Committee created
- 2009 Community Meetings held during summer
- 2010 Library Board passes motion

Plan for the Future

- Stable Hours & Materials, Functional & Attractive Facilities
 - Central Library
 - Center Street Library
 - 2-3 Area Libraries
 - 2-4 Traditional Neighborhood Libraries
 - 3 Mixed-Use Libraries
 - 2-3 Express Centers
 - Operational Savings \$17.3 \$32.1 million over 35 years
 - Responds to customer demand, reduces expenses to a sustainable level.

Area Library

30,000 Square Feet





Mixed Use Libraries

12,000 – 20,000 Square Feet





VILLARD AVENUE LIBRARY AND HOUSING

PERSPECTIVE NTS July 13, 2009 Englorg Anderson Project No. 091905

Express Libraries

500 - 1,500 SF





2011 Request - \$4,026,000

Central Library

Interior Improvements \$	5400,000
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- Exterior Improvements \$100,000
- Mechanical Upgrades \$226,000

Branch Libraries

- Area Library Planning \$1 million
- East Library Development \$2 million*
- Express Library \$300,000

^{*}Less revenue from sale of property

2012 Request - \$8,862,000

Central Library

- Interior Improvements \$1,225,000
- Exterior Improvements \$100,000
- Mechanical Upgrades \$237,000

Branch Libraries

- Area Library Planning \$6 million
- East Library Development \$1 million
- Express Library \$300,000

Timeline for 2011 - 2016

- 2011 Open Villard Square Library & Express
- 2012 Open East Library Development & Express
- 2013 Open Area Library North
- 2015 Open Area Library South
- 2016 Begin 3rd Mixed-use Library

Current Capital Projects

- RFID / Self-Service Technology
 - 1st Library to go live this month
- Central Library Drive-Through
 - Final engineering stage; construction this summer
 - Opens fall 2010
- Green Roof
 - Plantings completed this month
 - Accessible entrance in construction
 - Education component final design
 - Ribbon-Cutting early summer
- Villard Square
 - Purchase price & terms negotiated
 - RACM Partnership & New Market Tax Credits
 - Opens fall 2011

Thank You - Questions?



