October 25, 1990 CH/pb harord.pb Introduced by: <u>Audrey Gruger</u>

Proposed No.: 90-892

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ORDINANCE NO.

9683

AN ORDINANCE making the following appropriations: \$1,367,300 to Harborview Repair and Replacement, Fund 3961; and \$15,100 to Harborview Long Range Capital Improvement Projects, Fund 3122, and amending Ordinance No. 9221, Section 92, attachments No. 1 and 2, as amended.

BE IT ORDAINED BY THE COUNCIL OF KING COUNTY:

SECTION 1. There is hereby approved and adopted an appropriation of \$83,000 to CIP Project No. 678288, HMC Radiology Lab Remodel; \$442,800 to Project No. 678292, Orthopedic Radiology Upgrade; \$780,500 to Project No. 678287, Operating Room Improvements; \$61,000 to Project No. 678295, North Wing HVAC Upgrade, from the operating reserves of Harborview Medical Center Repair and Replacement Fund 3961;

SECTION 2. There is hereby approved and adopted an appropriation of \$15,100 to Project No. 678297 - Harborview Bond Administration 1990, Fund 3122. The revenue to support this project will be derived from the budget allocated in the project administration portion (task code 009) of the CIP projects that were previously appropriated in 1990.

SECTION 3. Ordinance No. 9221, Section 92, Attachments 1 and 2, as amended, are hereby amended by adding thereto and inserting therein the following:

<u>CIP PROJECT APPROPRIATIONS</u> - From the several capital improvement project funds there are hereby appropriated and authorized to be disbursed the following amounts for specific projects identified in Attachment No. 1, as adjusted by Attachment No. 2 of this ordinance

<u>Fund</u>	<u>Capital Fund</u>		
3961	Harborview Repair and Replacement	\$ 1	,367,300
3122	Harborview Long Range Capital		
	Improvement Projects	\$	15,100

1	The maximum number of additional FTEs to be budgeted in
2	Project No. 678297 shall be: .25
3	Provided that:
4	Harborview develop a six-year capital improvement plan as
5	required by the King County Charter Section 430.
6	INTRODUCED AND READ for the first time this 22nd day
7	of October, 1990.
8	PASSED this 29th day of October, 1990
9 10	KING COUNTY COUNCIL KING COUNTY, WASHINGTON
11 12	Lois North
13	ATTEST:
14 15	Gunda Getter Clerk of the Council
16	APPROVED this 9th day of November, 1990
17 18	King County Executive

9683

HARBORVIEW MEDICAL CENTER Radiology Courtyard Orthopedic Remodel Operating Room Upgrades

RADIOLOGY COURTYARD

The appropriation request for Radiology Courtyard reflects additional costs to the original budget as shown in the attached radiology lab spreadsheet. The administrative costs are projected through completion at a greater time commitment for construction administration than has previously been budgeted by the County. The hours reflect actual experience over the past four months.

The project has experienced a high degree of risk in the remodel portion as it relates to the operations of the hospital. The Project Manager has the responsibility for monitoring the contractor's activities on a daily basis within this environment to prevent accidents which pose a high probability of claims to the Owner. The project has experienced numerous and substantial contract safety violations by the contractor. Measures have been taken to put the contractor on notice as to his performance. The Project Office is of the opinion that retaining the contractor through completion of this project is in the best interest of the Owner. However, the contractor's retainage is contingent upon prudent and adequate project monitoring to ensure safe and timely completion of the project in this critical environment of medical care service delivery.

ORTHOPEDIC REMODEL AND OPERATING ROOM UPGRADES

The appropriation request for these two projects reflects an administrative budget commensurate with the time estimated for managing these projects in a 24-hour operational, hospital environment. The Orthopedic and Operating areas, as well as adjacent areas, will be in use by hospital staff and patients during the construction period. Due to the need for as much functionality as possible, the Operating Room project will be phased in small increments requiring a large number of hours in direct supervision and coordination.

In addition, the nature of the current public bid process is sometimes problematic because it can result in project award to contractors with varying levels of expertise in hospital construction/remodel projects. Owner administration time is very much a factor of contractor expertise. When a relatively inexperienced contractor is successful in receiving a hospital construction or remodel contract, it entails a relatively larger proportion of owner administrative time to ensure the proper coordination and implementation of the project.

Harborview Medical Center Attachment 1. Page 2

The Operating Room project will require a series of small contracts in order to accomplish the various phases and different disciplines involved. This will result in additional owner administration time preparing the bid packages and processing them through the purchasing system. This budget considers all potential costs associated with project administration at Harborview Medical Center.

RADIOLOGY LAB REMODEL PROJECTED BALANCE TO END OF PROJECT 9-13-90

A.	'Project Ba	alance as of March 1990		\$127,687.00
В.	'Encumbu	rances to Project April 1990 to Sept. 1990		
	2. 3.	Cope Construction Change Order #1 (Bid Alts. 1 & 2) Administration expenses to end of project (May 1991) Radiology portion of Contract #C10239C, North Wing Chilled Water System Upgrade Misc. Printing Cost Inspection services required by Bldg. permit	(\$19,236.00) (\$51,151.00) (\$50,780.00) (\$120.00) (\$1.900.00)	
C.	Project Ba	alance as of Sept. 1990		\$4,500.00
D.	Projected	project cost to end of Project (May 1991)		
	1. 2. 3. 4. 5. 6. 7.	Unencumbered change orders as of 8-27-90 Design amendment for extra construction services	(\$2,500.00) (\$1,500.00) (\$3,500.00) (\$11,000.00) (\$26,000.00) (\$2,000.00) (\$41,000.00)	(\$87,500.00)
E.	Project Ba	alance at end of Project (May 1991)		(\$83,000.00)

RADIOLOGY COURTYARD PROJECT FUNDING AMENDMENT

The Radiology Courtyard Project was originally designed to provide a second angiography suite, a second CT scanner and to provide more functional space for ultrasound. Additionally, support spaces would also be increased/renovated to accommodate the increased space requirements of the department. Final approval for the project was received on December 19, 1988 to proceed with design development. The project budget was \$1,657,797 and the notice to proceed was issued on March 15, 1990. A funding amendment is being requested to offset underallocation of contingency funds and additional charges incurred. The following is an analysis of expenditures.

Cor	\$127,000		
1.	Bid alternates accepted - darkroom and staff toilet (approved Facilities Committee 3/8/90)	\$ 16,000	
2.	Prorated cost of HVAC in North Wing A/C project	\$ 50,000	
3.	Additional project management costs due to change in King County Project	\$ 51,000	
	charge back methodology length and complexity of project.		\$ 117,000
	Contingency Balance		\$ 10,000
4.	Change orders (structural and other) approved and pending approval	\$ 28,000 1	
5.	Design contract amendment (HNTB)	\$ 2,000	
6.	Specific change order requests	\$ 33,000 2	
7.	Future changes to be expected	\$ 30,000	(\$ 93,000)
			(\$ 83,000)

- 1. Structural steel at roof and first floor Relocate fire sprinkler hangers Remove existing steam, vent, water lines Change existing non-rated to rated wall Install lead shielded astragal to CT and angio doors Revise roof flashing; add concrete base for circulating pump Delete fencing (credit) Existing windows to remain (credit) Delete toilet accessories (crèdit) Revise waste line at staff toilet and CT processor Change processor waste line from copper to PVC Modify curbs at ground where skylights were covered Modify HVAC duct sizes to fit above ceiling Revisé ceiling and wall to enclose existing pipes Supply anchor bolts for angio equipment bases Extend new water line to fixture Add 3" diameter exhaust ducts to film processors
- Change angio gas column from ceiling to floor Drain and hose bibb for silver recovery unit Room signage Emergency power for angio equipment Additional computer cabling/electrical HMC Engineering assistance

RAD001.DOC.2

PROJECT NAME		RENOVATION		TIMATE BY:		111111
EQUESTING A	GENCY: HARBORVIEW MEDICAL CENTER		СН	ECKED BY:	RICKY	LANGFORD
	LOWING PROJECT COST ESTIMATE IS CONCEPTUAL -		A FEASIBILITY	: :		
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*************	GENERAL OVERHEAD	25.00%	47600			
	SUBTOTAL		***************************************	238000		***************************************

	SQUARE FEET	500			:	
	COST PER SQ FT	\$476.00				
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	MAXIMUM ALLOWABLE CONSTRUCT	TION COST (MA	ICC)	238000		
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	CITY BUILDING PERMIT	2.33%	5545			****************
	DSHS PEAMIT	1.50%	\$570			
	ADVERTISING FOR BIDS		500	********		
	PRINT BID SETS		1200	**************		
	OWNERS TESTS & INSPECTION:	1.95%	4638	**********		
	HMC MAINTENANCE STAFF TIME	4.00%	9520	*************		
	TELEPHONE/COMPUTER CABLING		1000	***************************************		
	MOVING EXPENSES		2500			
	SUBTOTAL			47751		
	TOTAL CONSTRUCTION ELEMENT 003					\$285,75
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	SALESTAX	8.10%	29889	***************************************		
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OPERATING SUITE IMPROVEMENTS

<u> Item</u>	Original <u>Cost</u>	Projected <u>Cost</u>	Discussion
Construction	\$322,448	\$418,577	Added inflation (4%) Added impact of phasing construction (25%) Sales tax, etc. increase
Design	\$ 47,702	\$ 60,363	A/E fee increase (% of MACC) Increased misc. printing, survey costs
Equipment	\$ 84,118	\$104,452	Added inflation for prolonged schedule (10%)
Project Admin.	\$ 22,710	\$ 59,040	King County Project Administration doubled (12%) HMC maintenance support doubled (4%)
Contingency	\$ 48,091	\$128,086	Doubled contingency allowance (20%)
Art	\$ 3,932	\$ 6,183	Percent of MACC
Miscellaneous	allow major dylan	\$ 5,800	Increased King County Design Commission fee Increased city building permit fee
TOTAL	\$529,000	\$780,500	+ \$251,500

ORTHOPEDIC CLINIC - RADIOLOGY RENOVATION

ITEM	ORIGINAL COS	PROJECTED COST	DISCUSSION
Construction	\$ 208,361	\$ 270,803	Added Inflation (4%) Added Impact of Phasing Construction (25%) Sales Tax, etc. increase
Design	\$ 40,308	\$ 49,440	A/E Fee Increase (% of MACC) Increase Printing Costs
Project Admin.	\$ 14,620	\$ 38,080	King County Project Administration doubled (12%) HMC Maintenance Support doubled (4%)
Contingency	\$ 26,600	\$ 71,665	Doubled Contingency Allowance (20%)
Art	\$ 2.712	\$ 4.113	Percent of MACC
Miscellaneous	est der der	\$ 8,700	Increased King County Deisgn Commission Fee
TOTAL:	\$ 292,600	\$ 442,800	+ \$150,200

SOURCES OF FUNDING

	Reserve From Prior Year Projects	Building Repair & Replacement Fund	1991-92 Capital Renovation Fund	Computer Cabling
Project				
Radiology Courtyard (\$83,000)	\$ 78,500			\$ 4,500
North Wing Air Conditioning (\$61,000)	\$ 61,000			
Ortho. Clinic Radiology Renovation (\$150,200)	\$150,200 n			
Operating Suite Improvements \$251,500)	\$ 60,300	\$ 65,450	\$125,750	
TOTAL	\$350,000	\$ 65,450	\$125,750 GRAND TOTAL	\$ 4,500 \$545,700

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Attachment 3: North Wing Chiller 09-30-90

NORTH WING AIR CONDITIONING

BID MACC \$500,000 LOW BID \$492,000 \$8,000

ADDITIONS TO PROJECT

1) Replace thermostats ¹	\$24,000	
2) Diagnostic Display Panel ¹	\$17,000	
3) Contingency @ 10% ²	\$20,000	
4) HMC Maintenance 3	\$ 8,000	(\$69,000)
Additional Funding Required		\$61,000

FOOTNOTES

- 1. To replace existing thermostats with patient adjustable thermostats; to provide diagnostic display panel inside the building.
- 2. To provide contingency fund for project equal to 10% of MACC.
- 3. To provide HMC Main tenance staff time to assist with shutdowns, etc.

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NORTH WING AIR CONDITIONING

BID MACC LOW BID \$500,000 \$492,000 \$8,000

ADDITIONS TO PROJECT

1) Replace thermostats ¹	\$24,000	
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