SUBMITTAL TO THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

FROM: Riverside County Information Technology and
Riverside County Regional Medical Center

SUBMITTAL DATE:
June 9, 2015

SUBJECT: Correctional Health Electronic Health Record System. All Districts; [$1,263,713 total], [$4,500 ongoing]

RECOMMENDED MOTION: That the Board of Supervisors:

1. Approve an increase in the Correctional Health Electronic Health Record (EHR) system project budget, in the amount of $1,263,713, for purchase of additional: software, hardware, network and electrical cabling, medical carts and professional services for all County jails and juvenile detention facilities, and authorize use of County general funds for this purpose.

2. Approve an exemption to Board Policy A-68, Trustworthy Official Electronic Records Preservation, enabling implementation of the EHR prior to complying with the trusted system requirements. Compliance will be achieved pursuant to the attached schedule.

Zareh H. Sarrafian
Hospital Chief Executive Officer

Steve Reneker
Chief Information Officer

Departmental Concurrence

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost:	POLICY/CONSENT (per Exec. Office)
COST	$ 1,227,713	$ 4,500	$ 1,263,713	$ 4,500	Consent ☐ Policy ☑
NET COUNTY COST	$ 1,227,713	$ 4,500	$ 1,263,713	$ 4,500	

SOURCE OF FUNDS: Department budget 4300300000

Budget Adjustment: No

For Fiscal Year: FY 15/16

C.E.O. RECOMMENDATION: APPROVE

BY: Jennifer L. Sargent

County Executive Office Signature

MINUTES OF THE BOARD OF SUPERVISORS

On motion of Supervisor Jeffries, seconded by Supervisor Benoit and duly carried by unanimous vote, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Jeffries, Tavaglione, Washington, Benoit and Ashley
Nays: None
Absent: None
Date: July 7, 2015
xc: RCIT, RCRMC

Kecia Harper-Ihem
Clerk of the Board
By:
Deputy

Prev. Agn. Ref.:	District: ALL	Agenda Number:

3-23

Positions Added ☐
Change Order ☐
A-30 ☐
4/5 Vote ☐

BACKGROUND:
Summary

In 2008, the National Commission on Correctional Health Care (NCCHC) established best practice compliance indicators for jail inmates' health records, including: identifying information, laboratory reports, medical administration records, medical diagnoses, consent/refusal forms and known allergies. Subsequently, NaphCare, Inc., created a software application, TechCare, for the correctional healthcare environment and NCCHC best practice compliance, which is required June 29, 2015.

On November 24, 2014, agenda item 3-106, the Board of Supervisors approved an agreement with NaphCare for the purchase and installation of the TechCare software application. The Board approved a ten-year budget, in the amount of $9,410,624, for implementation and support of the EHR at eight adult and juvenile detention facilities across the county. Once completed, the new system will permit the Riverside County Regional Medical Center's Correction Health System to move from paper-based processes to electronic-based processes.

In an effort to implement the system as expeditiously as possible, the original budget included a number of assumptions based on Orange County's implementation of TechCare. However, upon initiating the project a detailed assessment was conducted, enabling a more thorough determination of costs. Through the assessment, it became apparent that some of the original assumptions and projections needed to be revised. The primary factors contributing to the increased costs are:

1) Orange County was able to migrate to TechCare from an existing Electronic Medical Records system. Since Riverside County has been operating without an electronic system, a significant number of additional network data drops and electrical connections were required.

2) Special consideration was needed for cabling and contractor selection, because of jail requirements, including: concrete boring and other hard surface access, security personnel, secure wireless access point (WAP) enclosures and other less common conditions/necessities.

3) Initially, it was planned that interfaces between TechCare, RCRMC Pharmacy and EHR systems would be developed by county staff; however, it was determined these interfaces would require expertise only available from pharmacy and EHR system vendors.

4) The original estimate for desktop hardware and software was based on the understanding at that time. Following the assessment, the desktop hardware and software requirements were significantly more than anticipated, in large part because Riverside County was migrating from a paper-based system.

5) The medical carts currently in use by the CHS were thought to be sufficient for the new electronic healthcare record system; however, it was determined the carts were outdated and unable to be retrofitted to support and secure the laptop devices required for the EHR.

SUPPLEMENTAL:
Additional Fiscal Information

The following is a breakdown of the additional costs required for the implementation of the Correction Health System EHR:

Additional Item	Estimated One-Time Cost	Recurring Costs
Network enhancement, cabling, and wireless solution	$392,000	
EDA electrical wiring , conduit, and WAP enclosures	$545,000	
EHR Interfaces	$54,000	$300/month $32,400 for 9 years
Desktop Hardware and Software	$145,378	$900/year $8,100 for 9 years
Medical Carts	$86,835	
Column Totals	$1,223,213	$40,500
Grand Total for 10 years		$1,263,713

The following is the revised 10-year cost detail for purchase, implementation, and support of the Correctional Health System EHR:

Description	1st year cost	2nd year cost	Annual cost 3rd-10th year	Total cost over 10 years
NaphCare agreement-software, licenses and implementation	$500,000	$500,000	500,000	5,000,000
County desktop/laptop hardware	$187,900	-	-	$374,000*
County infrastructure	$37,259	$37,259	$37,259	$372,590
County system implementation, support and hosting	$689,217	$330,535	$330,535	$3,664,034
Additional Costs	-	$1,227,713	$4,500	$1,263,713
TOTAL	$1,413,476	$2,095,507	$872,294	$10,674,337

* A hardware refresh during the fifth year of operation is included in the 10 year total cost.

It is anticipated that cost savings in department budget 4300300000 will be available to offset these additional expenditures. The department will continue exploring availability of funds, other than Net County Cost, and will keep the Board informed of their progress.

Board Policy A-68, Trustworthy Official Electronic Records Preservation, is relatively new to the County and the process to evaluate, test and document compliance with the trusted system standard is more time intensive than implementation of the EHR can accommodate. As such, an exception to Board Policy A-68 is requested to ensure the mandated TechCare go-live date of June 29, 2015 is not delayed. Full compliance with the trusted system standard is expected to be achieved by November 10, 2015.

Trusted Systems Compliance - Schedule

Area	Task Name	# of Reqs	# of Docs	Plan Date
Trusted Systems Requirement	**Trusted Systems**			
General, Policy, Procedural	Draft Documentation	51	29	08/10/15
General, Policy, Procedural	Forward documentation to reviewer			08/14/15
General, Policy, Procedural	Provide Reviewer Feedback - RMAP			08/21/15
General, Policy, Procedural	Provide Reviewer Feedback - RUMC			08/28/15
General, Policy, Procedural	Complete additional revisions to documentation			08/31/15
Technical	Draft Documentation	35	11	08/31/15
Technical	Forward documentation to reviewer			08/31/15
Technical	Provide Reviewer Feedback			09/25/15
Technical	Complete additional revisions to documentation			09/14/15
Admin	Trusted Systems EndUser Training			09/28/15
Admin	RMAP feedback and sign off to ISO			08/31/15
Admin	RUMC feedback and sign off to ISO			10/02/15
Admin	Complete risk assessment			10/02/15
Admin	Respond to remediation			10/29/15
Admin	Form 11/ resolution document and ISO report			10/29/15
Admin	Submit request to be added to board agenda			10/29/15
Admin	Obtain board approval			11/10/15

Note: There are 86 General, Policy and Procedural requirements and 40 associated documents that need to be completed, reviewed and approved by est. November 10, 2015.