# Strategic Planning Committee

December 20, 2005



## Agenda December 20, 2005

## Review project budget & scope status

Pomerado Palomar West Palomar East

#### **Speakers**

Joe Hook, Chief Estimator



**Tom Chessum, Principal Architect** 

ANSHEN+ALLEN ARCHITECTS

### Glossary

#### Escalation

Increase in construction costs over time due to inflation of labor rates, material prices and other costs.

Market Conditions - Supply of and demand for contracting services.

#### Components of demand include

- Quantity of current and anticipated work
- Types of available work and their relative desirability to contractors

Hard bid or lump sum bid - A traditional contracting method.

- Usually not carried out until design is complete.
- · Bidders submit fixed prices for a defined scope of work.
- · The work is awarded to the low bidder
- · The low bidder bears the risk of costs overruns.

\$/BGSF - Cost per building gross square feet, also cost per square foot. A common measure of construction cost.

3

### Escalation

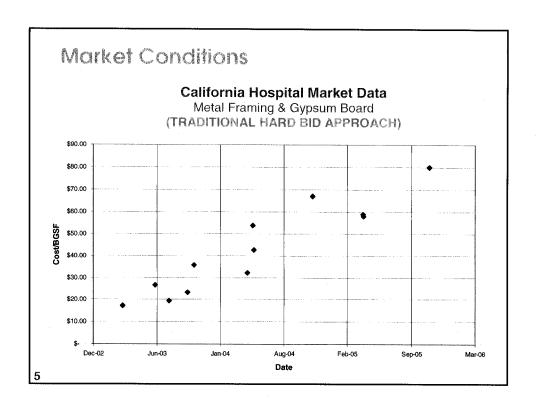
ENR Building Cost Index (BCI) increased 5.0% in 2005.

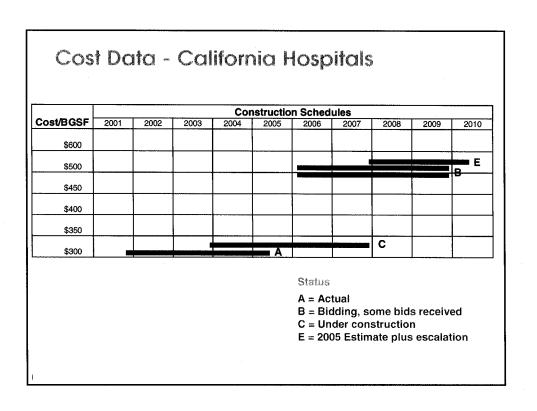
Future escalation will be affected by

- · Global markets Asia and other
- · U.S. Public construction
  - Currently at \$249 Billion / year
  - Transportation bill = \$288 Billion over six years
- Gulf coast rebuilding & other

#### Perspective

\$600 Million x 5% per year = \$2.5 million per month





### Typical of California Hospital Projects

Complexity

**OSHPD** requirements

Variation in application of codes

Size and duration of projects, carrying costs

Low productivity on past & current projects (= risk)

Strong market for other project types

7

### **Market Conditions**

Strong demand for construction services

- Hospital projects driven by SB 1953 and demographics
- · Concurrent growth in other sectors

Limited supply of qualified labor = productivity risk

Limited number of trade contractors who are qualified and interested in hospital work

- Major trade scopes often range \$30 \$60 million
- Many trade contractors are sole proprietors or closely held private companies
- Large hospital projects put a strain on contractors' financial, bonding and human resources

### **Market Conditions**

California hospitals pay substantial market premiums in construction costs.

Contractor capacity will continue to be the biggest cost challenge for California hospital projects.

We must develop ways to make PPH work attractive to contractors.

- Project delivery methods
- Design

9

### Strategies - Delivery Methods

Alternative (and early) procurement

- Competition based on pricing structure in lieu of hard bid / lump sum
- Consider sharing the risk
- Start procurement during the design development stage

Prepare complete and "buildable" documents; Minimize OSHPD related changes.

- Study lessons from other OSHPD projects
- Select teams with OSHPD experience
- Include trade contractors in the design process

Demonstrate to the contracting community that we have effective measures in place to manage the risks

## Strategies - Design

#### **New Site**

- · Ample staging & parking areas
- · Fabrication & work space

### **Multiple Buildings / Optimized Work Increments**

- Optimize contract size
- Shorter incremental schedules
- Reduce carrying costs

### **Constructability / Off-site Fabrication**

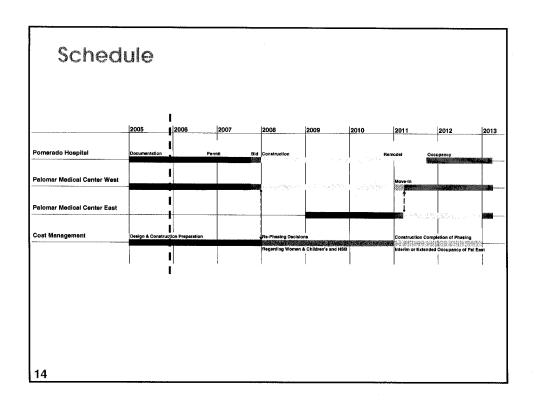
- Panelized exterior
- Uniform layouts i.e. nursing, surgery

#### Benefits

- Enhanced productivity
- · Labor costs become more predictable
- More contractor participation & competition

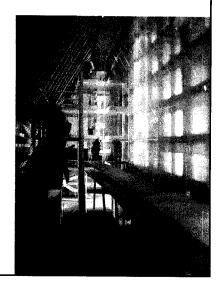
Facility	PROJECT BUDGET/SCOPE	Beds Budget FMP
Master	Program / Scope of Work	\$ x 1,000,000
Plan -	PAUOMAR MEDICAL CENTER SECOND CAMPUS	453 \$531.0
July 2004	383 Bed Facility w/ Women's & Children's Center (assumes \$40M equip. reuse / annual cap.) Shell - 60 M/S & 10 ICU Beds / D&T Outpatient Women's Center	\$473.0 \$20.0 \$8.0
	Land Acquisition PALOMAR MEDICAL CENTER DOWNTOWN	\$30.0 72
	72 Bed Psych / Rehab Facility Reuse Outpatient Surgery Center Outpatient Oncology / Infusion Center	\$47.0 \$1.0 \$1.0
	McLeod Improvements (Warm Shell)	\$24.0
	POMERAGO HOSPITAL)  143 Bed Facility Shell - 60 M/S & 8 ICU Beds	211 \$139.0 (68 shell) \$81.0 \$22.0
	Women's Floor Outpatient Imaging Center Outpatient Women's Center	\$16.0 \$7.0 \$4.0
	Outpatient Surgery Center SATELLINE CENTERS	\$9.0 \$10K
	TOTAL	736 \$753.0

### Project Budget Update Facilities Master Plan- July 2004 = \$753.0 M Additional Costs - Dec. 2005 = \$229.6 M - Market & Schedule Conditions = \$124.0 M(Does not include Building Materials Increases projected for 2006 = \$17.3 M) - Program Revisions (Increases/Reductions) = \$ 31.3 M - Soft Costs (Plan Check Fees) =\$ 3.2 M - Land = \$ 19.0 M - Equipment (Acuity Adaptability) = \$ 52.1 M (Program Additions) (Increasing Medical Technology Use) (Reuse of Equipment)



# **Program Revisions - Principles**

- 1. Waintain Vision
- 2. Re-Phase Construction
  - meet 2010 projections
- 3. Protect Future
  - avoid compromise to effective land use
- 4. Incorporate Innovations



15

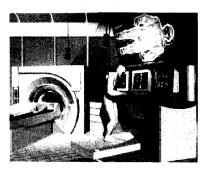
### 1. Maintain Vision

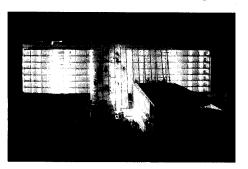
**Implement Facility Master Plan Scope & Concepts** 

**Achieve National Recognition for** 

- "... Highest Quality of Clinical Care..."
- "...Access to Comprehensive Services..."

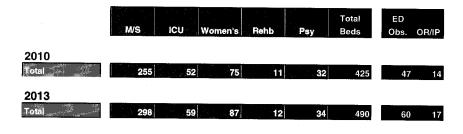
Implement "Best-Practices" of Evidence Based Design





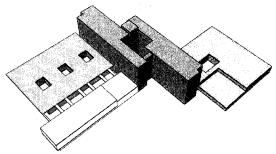
## 2. Projected Needs

### **Combined Palomar Medical Center West & East**



17

# 3. Protect Future - Flexibility / Expandability



- Maintain effective land use
- Maintain long term build out strategy through interim occupancies
- Maintain site organization for future growth

### 4. Incorporate Innovations

#### **Clinical Planning**

(Additional quality of care / patient safety benefits)

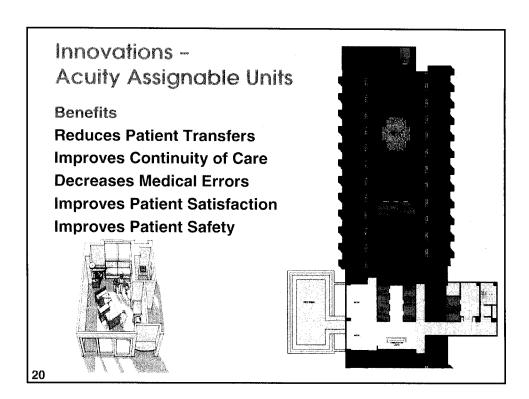
- Acuity Assignable Units
- Same Handed Room
- Distributed Nursing
- Integrated Interventional Services

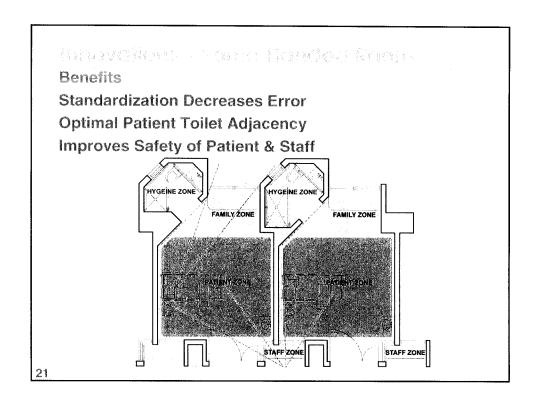
Sustainable / Green Building

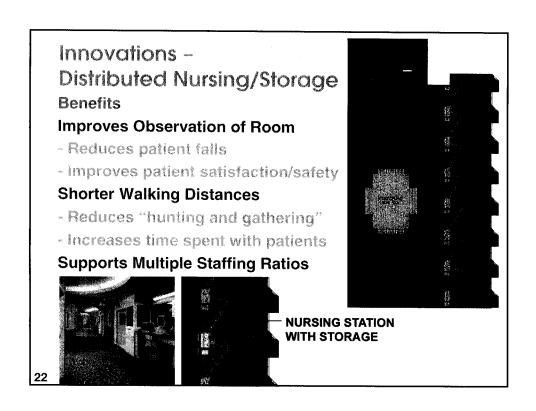
**Healing Environments** 











Innovations -Integrated Interventional Services Benefits

Reinforces Interdisciplinary Patient Care Supports Shared Resources – staff & space Enhances Opportunity for Service Lines Improves Adaptability for New Technologies

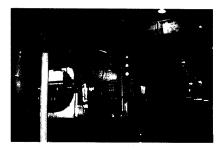


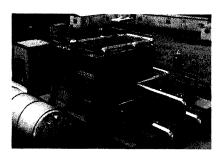
23

# Innovations - Sustainable/Green Building

**Benefits** 

Enhanced Energy & Water Efficiency Reduced Environmental Impact





## **Innovations** - Healing Environment

### **Garden Hospital Concept**

#### **Benefits**

Reduces stress

Lowers blood pressure and heart rate Lessens pain

Reduces use of strong medications Improves medical outcomes

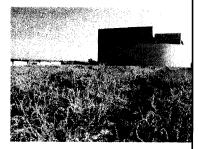
Decreased length of stay

Reduces staff absenteeism

Reduces staff turnover rate

Improves ability to deliver high quality care

Improves ability to attract quality staff Improves job satisfaction





25

# Pomerado Hospital

## Pomerado Hospital Budget Update

Facilities Master Plan - July 2004

= \$139.0 M

Additional Costs - Dec. 2005

= \$ 50.7 M

- Market & Schedule Conditions

= \$ 21.2 M

- Program Revisions (Additions/Reductions)

= \$ 15.4 M

- Soft Costs (Plan Check Fees)

= \$ 1.0 M

- Equipment (Program Additions)

= \$ 13.1 M

(Increasing Medical Technology Use) (Reuse of Equipment)

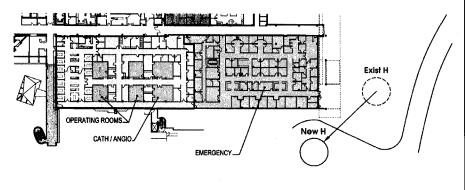
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Diagnostic & Treatment Expansion –

Integrated Interventional Services

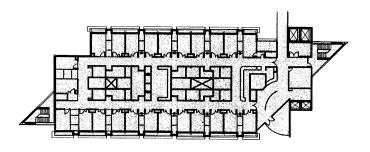
Consolidate Surgery, PACU, Cath Lab, and Angiography Services

**Increase size of existing Operation Rooms** 



## New Patient Tower – Acuity Assignable & Distributed Nursing

All floor plates sized for Acuity Adaptability & Distributed Nursing
Standardized w/ 24 beds for future flexibility



29

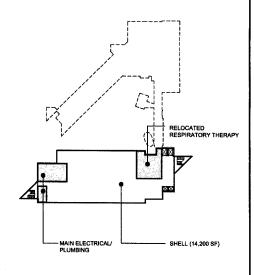
## New Patient Tower – Addition of Basement

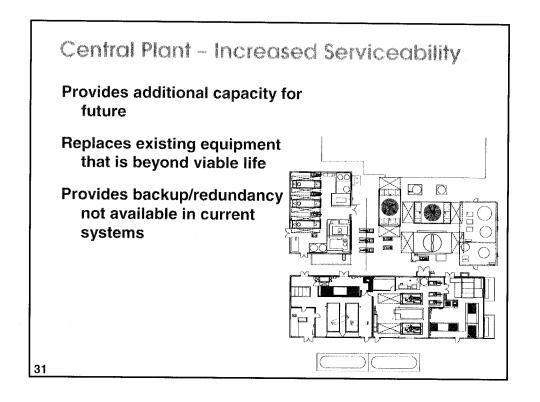
Maximizes use of land

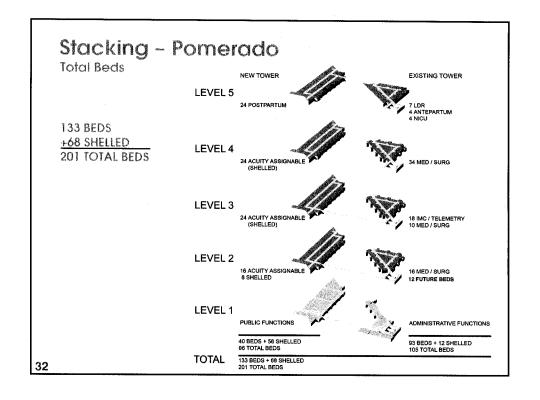
Mitigates fill soils conditions

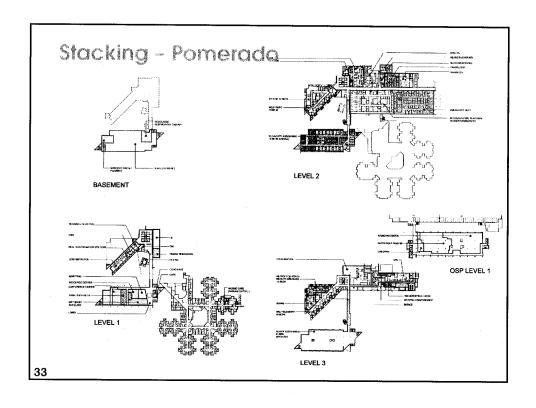
Provides location for support functions adjacent to beds

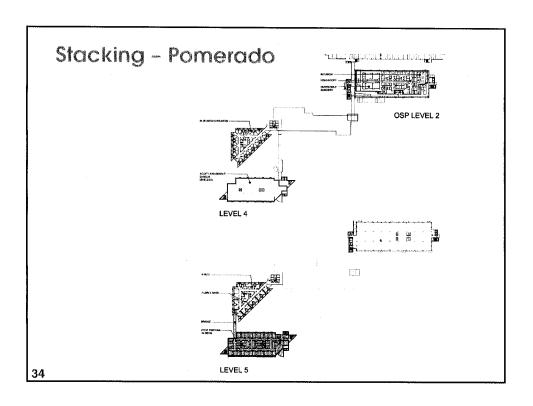
Adds space for storage and support

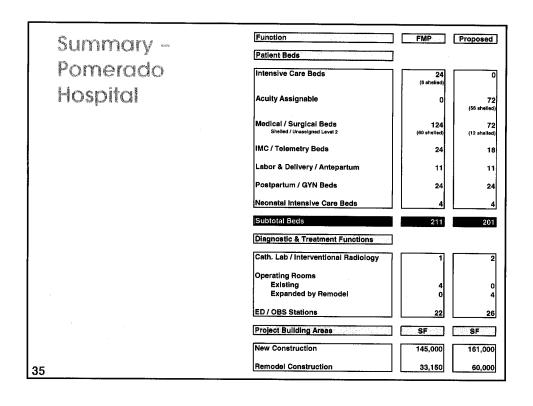


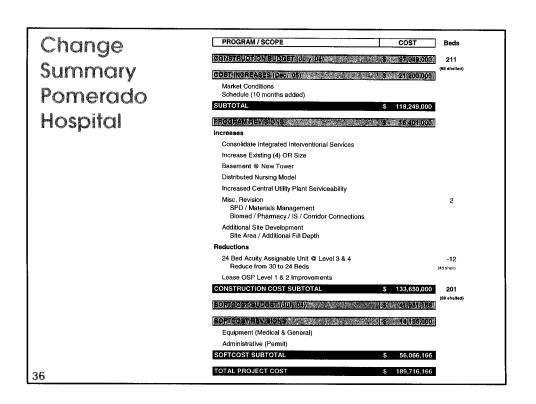












# Palomar Medical Center West

37

### Palomar MC West Budget Update

Facilities Master Plan- July 2004 = \$531.0 M

Additional Costs - Dec. 2005 = \$159.2 M

- Market & Schedule Conditions = \$ 90.8 M

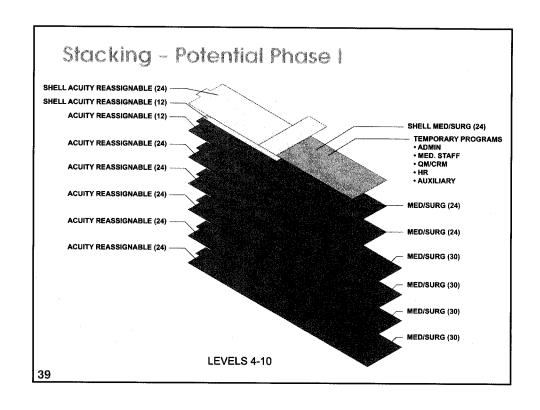
- Program Revisions (Additions/Reductions) = \$ 15.9 M

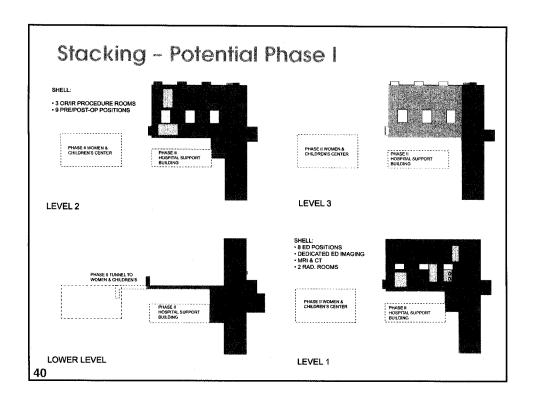
- Soft Costs (Plan Check Fees) = \$ 2.0 M

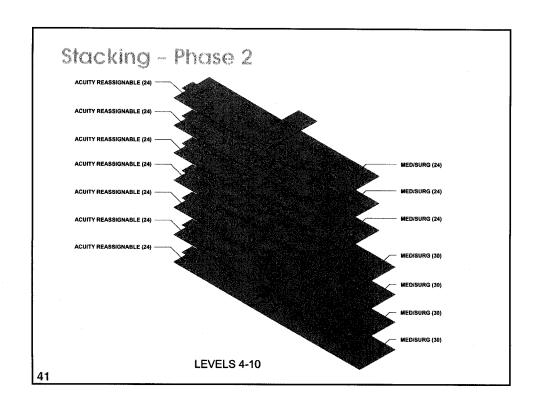
- Land = \$ 17.0 M

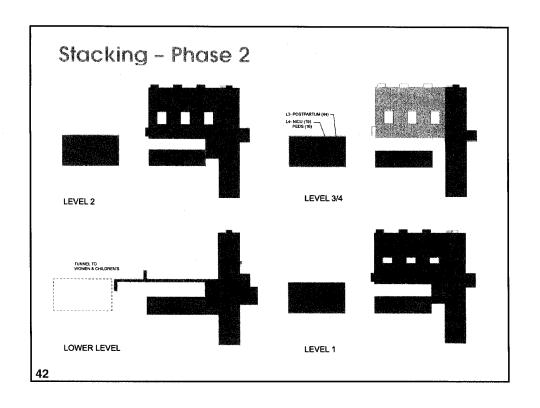
- Equipment (Acuity Adaptability) = \$ 31.5 M

(Program Additions) (Increasing Medical Technology Use) (Reuse of Equipment)

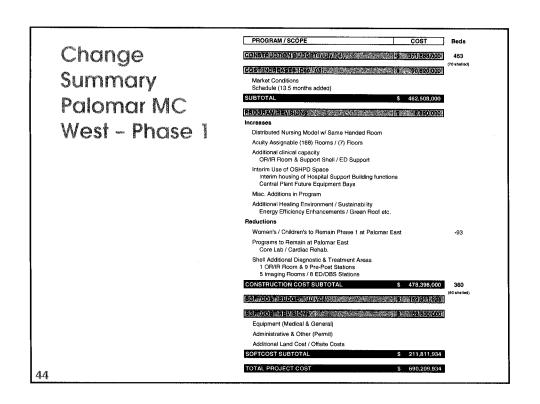








	Function	FMP	Phase 1	Phase 2
Summary	Patient Beds			
Palomar MC	Intensive Care Beds	60 (10 shelled)	Ö	0
West	Acuity Assignable	o	168 (36 shelled)	168
	Medical / Surgical Beds	300 (60 shelled)	192 (24 shelled)	192
	Labor & Delivery / Antepartum	21	0	20
	Postpartum / GYN Beds	44	0	44
	Pediatric Beds	16	0	16
1	Neonatal Intensive Care Beds	12	0	16
	Total Beds	453	360	456
	Diagnostic & Treatment Functions			
	Cath. Lab / Interventional Radiology	5	5 (1 shelled)	5
	Operating Rooms	11 (1 shelled)	13 (2 shelled)	13
	Imaging Rooms	15 (2 shelled)	15 (7 shelled)	15
	ED / Observation Stations	60	60 (8 shelled)	60
	Project Building Areas	SF	SF	SF
43	New Construction	800,000	725,000	879,000



# Palomar Medical Center East

15

# Palomar MC East Phase 2 Budget Update

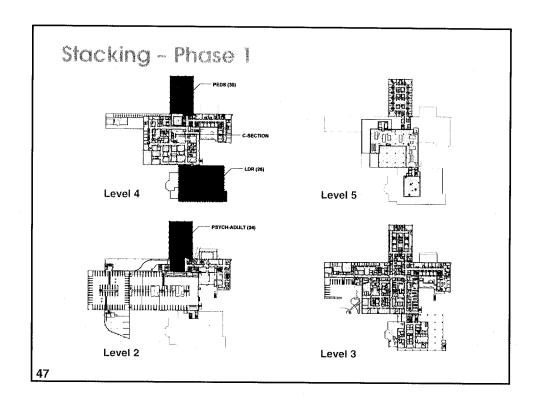
Facilities Master Plan-July 2004 = \$ 73.0 M

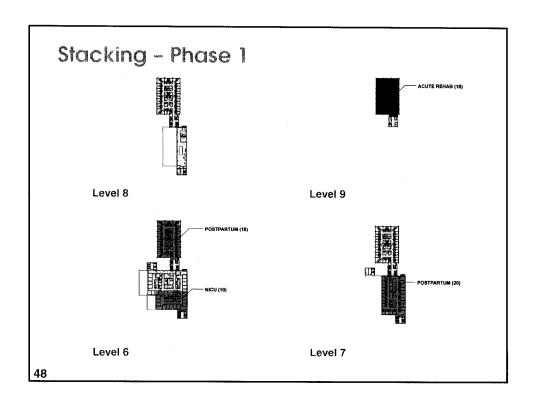
Additional Costs - Dec. 2005 = \$ 19.7 M

- Market & Schedule Conditions = \$ 12.0 M

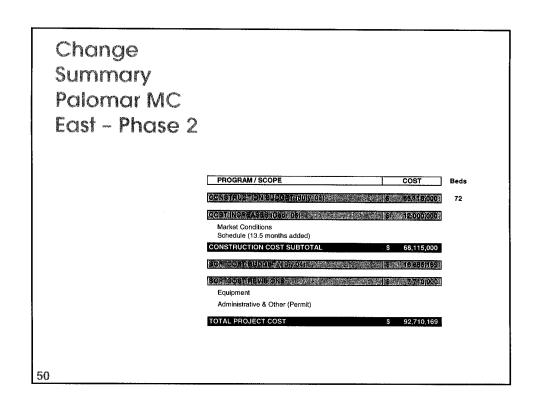
- Soft Costs (Plan Check Fees) = \$ .2 M

- Equipment (Increasing Medical Technology Use) = \$ 7.5 (Reuse of Equipment)





Summary				
Palomar MC				
East				
	Function	FMP	Phase 1	Phase 2
	Patient Beds			
	Adult & Geriatric Behavioral Health	42	24	42
	Acute Rehabilitation Beds	30	18	30
	Labor & Delivery / Antepartum	0	26	
	Postpartum / GYN Beds	0	38	0
	Pediatric Beds	٥	30	
	Neonatal Intensive Care Beds	0	16	0
	Total Beds	72	152	72
	Project Building Areas	SF	SF	SF
	New Construction Remodel Construction McLeod Tower Upgrade	16,000 39,000 85,000	0 0	16,000 39,000 85,000
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49				



# Summary

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### Project Budget Update

Facilities Master Plan - July 2004 = \$753.0 M

Additional Costs - Dec. 2005 = \$229.6 M

- Market & Schedule Conditions = \$124.0 M

- Program Revisions (Increases/Reductions) = \$ 31.3 M

- Soft Costs (Plan Check Fees) = \$ 3.2 M

- Land = \$ 19.0 M

- Equipment (Acuity Adaptability) = \$ 52.1 M

(Program Additions)
(Increasing Medical Technology Use)

(Reuse of Equipment)

