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**Committee Meeting: 5/12/2011**

Robert L. Stillwell, *Chairman*  
James D. Dannenbaum, *Vice Chairman*  
Paul L. Foster  
Printice L. Gary  
Wallace L. Hall, Jr.

**Board Meeting: 5/12/2011**  
Austin, Texas

	<b>Committee Meeting</b>	<b>Board Meeting</b>	<b>Page</b>
<b>Convene</b>	<i>12:30 p.m.</i> <i>Chairman Stillwell</i>		
1. <b>U. T. System: Discussion featuring research opportunities, accomplishments, and challenges at U. T. Health Science Center – San Antonio</b>	<i>12:30 p.m.</i> <b>Discussion</b> <i>President Henrich</i> <i>Dr. Shine</i>	Not on Agenda	<b>140</b>
2. <b>U. T. M. D. Anderson Cancer Center: Authorization to purchase Lot 2, Block 23, and adjacent streets and alleys, Institute Place Subdivision, Houston, Harris County, Texas, from Ollie W. Kelly and Brenda B. Kelly and any successors and assigns or other persons who may be determined to hold all or part of an interest in such land for a purchase price not to exceed fair market value as established by independent appraisals for future use for campus administrative and support functions</b>	<i>1:00 p.m.</i> <b>Action</b> <i>President Mendelsohn</i> <i>Mr. Burgdorf</i>	<b>Action</b>	<b>140</b>
3. <b>U. T. M. D. Anderson Cancer Center: Authorization to purchase Lot 7, Block 11, and adjacent streets and alleys, Institute Place Subdivision, Houston, Harris County, Texas, from Janice M. Smith and any successors and assigns or other persons who may be determined to hold all or part of an interest in such land for a purchase price not to exceed fair market value as established by independent appraisals for future use for campus administrative and support functions</b>	<i>1:10 p.m.</i> <b>Action</b> <i>President Mendelsohn</i> <i>Mr. Burgdorf</i>	<b>Action</b>	<b>143</b>
4. <b>U. T. Medical Branch – Galveston: Report on the Hurricane Ike Recovery Projects - Academic and Business Buildings, Healthcare Buildings, Infrastructure, and Research Buildings</b>	<i>1:20 p.m.</i> <b>Report/Discussion</b> <i>President Callender</i> <i>Mr. Stephen Harris</i>	Not on Agenda	<b>145</b>
5. <b>U. T. Health Science Center – San Antonio: Approval to establish a Doctor of Medical Physics degree program and submit the proposal to the Texas Higher Education Coordinating Board for review and appropriate action</b>	<i>1:50 p.m.</i> <b>Action</b> <i>President Henrich</i> <i>Dr. Shine</i>	<b>Action</b>	<b>162</b>
<b>Adjourn</b>	<i>2:00 p.m.</i>		

1. **U. T. System: Discussion featuring research opportunities, accomplishments, and challenges at U. T. Health Science Center – San Antonio**

### DISCUSSION

Executive Vice Chancellor Shine and President Henrich will lead a discussion concerning research opportunities, accomplishments, and challenges at U. T. Health Science Center – San Antonio.

2. **U. T. M. D. Anderson Cancer Center: Authorization to purchase Lot 2, Block 23, and adjacent streets and alleys, Institute Place Subdivision, Houston, Harris County, Texas, from Ollie W. Kelly and Brenda B. Kelly and any successors and assigns or other persons who may be determined to hold all or part of an interest in such land for a purchase price not to exceed fair market value as established by independent appraisals for future use for campus administrative and support functions**

### RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Health Affairs, the Vice Chancellor and General Counsel, and President Mendelsohn that authorization be granted by the U. T. System Board of Regents, on behalf of U. T. M. D. Anderson Cancer Center, to

- a. purchase Lot 2, Block 23, and adjacent streets and alleys, Institute Place Subdivision, Houston, Harris County, Texas, from Ollie W. Kelly and Brenda B. Kelly and any successors and assigns or other persons who may be determined to hold all or part of the interest in such land for a purchase price not to exceed fair market value as established by independent appraisals, plus all due diligence expenses, closing costs, and other costs and expenses to complete the acquisition of the property as deemed necessary or advisable by the Executive Director of Real Estate, for future use for campus administrative and support functions; and
- b. authorize the Executive Director of Real Estate to execute all documents, instruments, and other agreements, and to take all further actions deemed necessary or advisable to carry out the purpose and intent of the foregoing recommendation.

## BACKGROUND INFORMATION

Acquisition of the subject property is part of the land assemblage in the east campus area being undertaken by U. T. M. D. Anderson Cancer Center to accommodate the relocation of important, but noncritical, functions that will allow greater use of core facilities in the Texas Medical Center for patient treatment and research.

Land acquisitions to accomplish that relocation goal commenced when the Board of Regents on February 7, 2007, approved the acquisition of approximately 28.8 acres and another site with approximately 2.3 acres fronting on Almeda Drive, which became the core of the east campus and the site for relocation of many administrative and support activities currently housed on the main and south campuses. Other acquisitions to expand the east campus were approved by the Board on November 9, 2007, July 24, 2008, August 14, 2008, and February 12, 2009; these acquisitions total approximately five additional acres.

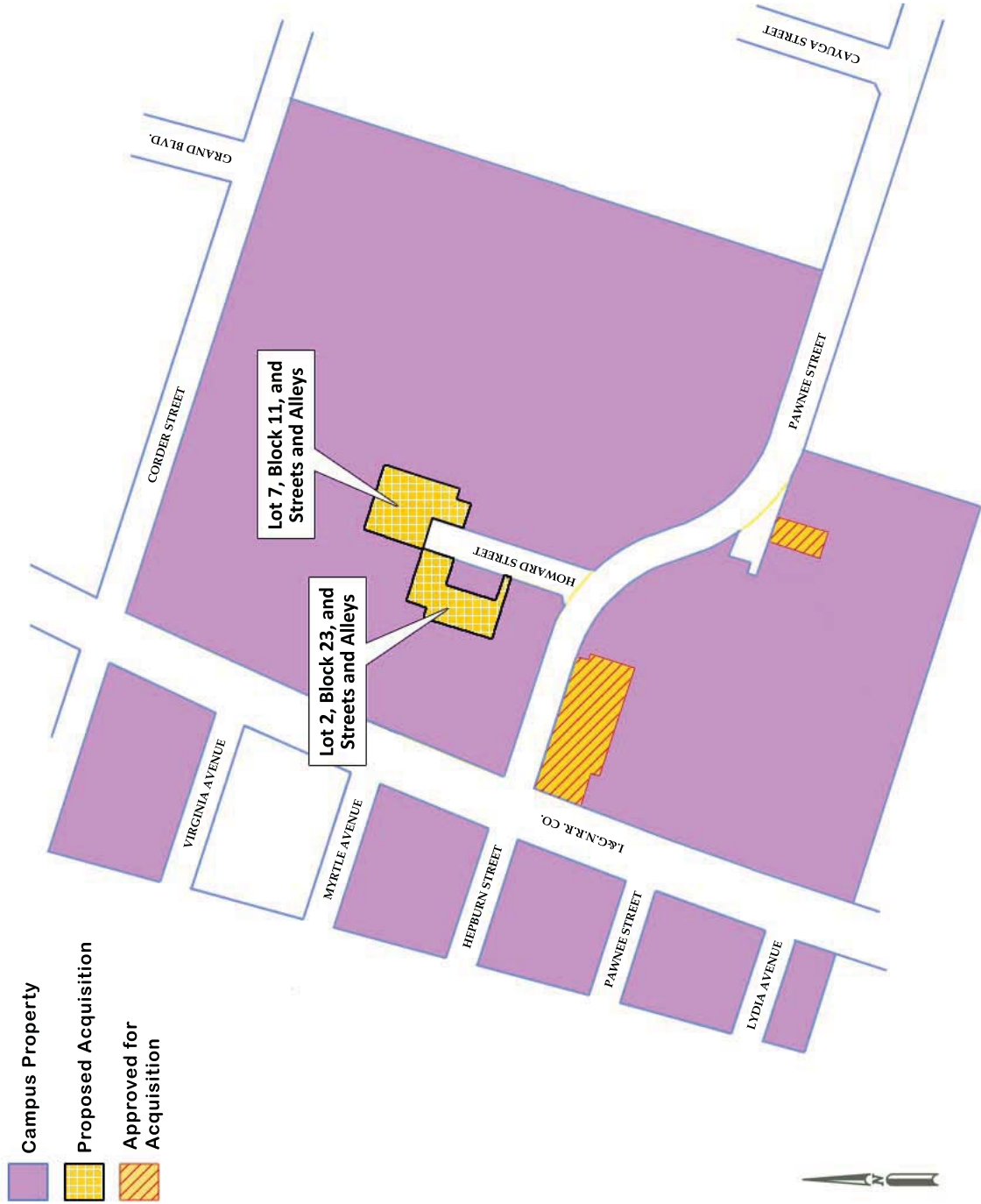
This proposed acquisition of approximately 0.3 of an acre of unimproved land and a related acquisition for Lot 7, Block 11, Institute Place Subdivision, which is being requested concurrently (Item 3 on Page 143), will allow the institution to eliminate certain roads and alleys north of the proposed Pawnee/Hepburn Street relocation and generally facilitate development of the east campus.

Details of this acquisition, which will be funded with Local Hospital Margins, are summarized in the transaction summary below.

### Transaction Summary

Institution:	U. T. M. D. Anderson Cancer Center
Total Area:	0.3 of an acre
Improvements:	Unimproved
Location:	Lot 2, Block 23, Institute Place Subdivision, Houston, Harris County, Texas; see map on next page
Seller:	Ollie W. Kelly and Brenda B. Kelly
Purchase Price:	Not to exceed fair market value as established by independent appraisals
Appraised Value:	\$420,000 (Gerald A. Teel Co., October 19, 2010); \$360,000 (Edward B. Schulz & Co., September 14, 2010)
Source of Funds:	Local Hospital Margins
Intended Use:	Administrative and support functions

# UTMDACC EAST CAMPUS



3. **U. T. M. D. Anderson Cancer Center: Authorization to purchase Lot 7, Block 11, and adjacent streets and alleys, Institute Place Subdivision, Houston, Harris County, Texas, from Janice M. Smith and any successors and assigns or other persons who may be determined to hold all or part of an interest in such land for a purchase price not to exceed fair market value as established by independent appraisals for future use for campus administrative and support functions**

### RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Health Affairs, the Vice Chancellor and General Counsel, and President Mendelsohn that authorization be granted by the U. T. System Board of Regents, on behalf of U. T. M. D. Anderson Cancer Center, to

- a. purchase Lot 7, Block 11, and adjacent streets and alleys, Institute Place Subdivision, Houston, Harris County, Texas, from Janice M. Smith and any successors and assigns or other persons who may be determined to hold all or part of the interest in such land for a purchase price not to exceed fair market value as established by independent appraisals, plus all due diligence expenses, closing costs, and other costs and expenses to complete the acquisition of the property as deemed necessary or advisable by the Executive Director of Real Estate, for future use for campus administrative and support functions; and
- b. authorize the Executive Director of Real Estate to execute all documents, instruments, and other agreements, and to take all further actions deemed necessary or advisable to carry out the purpose and intent of the foregoing recommendation.

### BACKGROUND INFORMATION

Acquisition of the subject property is part of the land assemblage in the east campus area being undertaken by U. T. M. D. Anderson Cancer Center to accommodate the relocation of important, but noncritical, functions that will allow greater use of core facilities in the Texas Medical Center for patient treatment and research.

Land acquisitions to accomplish that relocation goal commenced when the Board of Regents on February 7, 2007, approved the acquisition of approximately 28.8 acres and another site with approximately 2.3 acres fronting on Almeda Drive, which became the core of the east campus and the site for relocation of many administrative and support activities currently housed on the main and south campuses. Other acquisitions to

expand the east campus were approved by the Board on November 9, 2007, July 24, 2008, August 14, 2008, and February 12, 2009; these acquisitions total approximately five additional acres.

This proposed acquisition of approximately 0.4 of an acre of unimproved land and a related acquisition for Lot 2, Block 23, Institute Place Subdivision, which is being requested concurrently (Item 2 on Page 140), will allow the institution to eliminate certain roads and alleys north of the proposed Pawnee/Hepburn Street relocation and generally facilitate development of the east campus.

Details of this acquisition, which will be funded with Local Hospital Margins, are summarized in the transaction summary below.

#### Transaction Summary

Institution:	U. T. M. D. Anderson Cancer Center
Total Area:	0.4 of an acre
Improvements:	Unimproved
Location:	Lot 7, Block 11, Institute Place Subdivision, Houston, Harris County, Texas; see map on Page 142
Seller:	Janice M. Smith
Purchase Price:	Not to exceed fair market value as established by independent appraisals
Appraised Value:	\$510,000 (Gerald A. Teel Co., October 19, 2010); \$440,000 (Edward B. Schulz & Co., September 15, 2010)
Source of Funds:	Local Hospital Margins
Intended Use:	Administrative and support functions

4. **U. T. Medical Branch - Galveston: Report on the Hurricane Ike Recovery Projects - Academic and Business Buildings, Healthcare Buildings, Infrastructure, and Research Buildings**

REPORT

President Callender and Mr. Stephen Harris, Regional Program Manager in the U. T. System Office of Facilities Planning and Construction, will report on the progress of recovery efforts at U. T. Medical Branch – Galveston following Hurricane Ike and will outline the recommendations for the Ike Recovery Projects, including Academic and Business Buildings, Healthcare Buildings, Infrastructure, and Research Buildings projects, as included in the Facilities Planning and Construction Committee (Item 11 on Page 187).

# HURRICANE IKE RECOVERY

Dr. David L. Callender, President, U. T. Medical Branch at Galveston

Mr. Stephen Harris, Regional Program Manager, U. T. System, Office of Facilities Planning and Construction

Health Affairs Committee

May 2011





# INTRODUCTION

- **The UTMB Health Road Map**
  - Increased student enrollment that will continue to grow
  - Research activity higher than pre-Ike
  - Clinical strategy established and in motion
  - Hurricane Ike repair and mitigation efforts underway



# HURRICANE IKE INFORMATION

- **Hurricane Ike made landfall in Galveston, Texas, on September 13, 2008**
  - Wind speeds in excess of 110 mph
  - Water elevation was 3<sup>rd</sup> highest in Galveston history
- **Damage to UTMB one of largest single applicant events in FEMA history**
  - More than 100 buildings and 20 major utility systems affected
  - Over 1 million square feet damaged
  - Approximately 15% of campus space inventory impacted



# RECONSTRUCTION & MITIGATION PLANNING

- In response to Hurricane Ike, Walter P. Moore Engineers has developed UTMB Flood Mitigation guidelines
  - Critical functions in existing buildings to be at elevations no less than 20'-0" above Mean Sea Level (MSL)
  - Critical functions in new buildings to be at elevations no less than 25'-0" above MSL
  - Elevations for all critical components will exceed 500-year flood projections as defined by FEMA
  - With implementation of recommended repair and mitigation, future financial exposure at UTMB expected to be within the institution's current underlying insurance policies and U. T. System's property insurance deductible

# PROGRESS OF THE UTMB RECOVERY

- **Coordination with FEMA has continued throughout the 31 months since the storm**
  - Creation of more than 1300 FEMA Project Worksheets and amendments, estimated at more than \$1B
  - Additional \$160M proposed for other preemptive mitigation to meet requirements of the UTMB Flood Mitigation Guidelines
- **Submissions for all damages and all proposed mitigation have been delivered to FEMA Region 6**
  - All damage validation requests for UTMB have been submitted
  - Hazard Mitigation Plan proposals have been submitted for approximately 50 critical buildings & systems

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# PROGRESS OF THE UTMB RECOVERY (cont.)

- **Approximately \$250M expended to date on recovery**
  - Includes initial disaster response expenses, costs for emergency repairs, ongoing design, and completed minor construction
- **Approximately \$300M encumbered to date for fixed asset recovery**
  - Includes scope in each capital project with a focus on the higher priority facilities related to healthcare, education and research
- **An additional \$500M in review and expected to be encumbered by June 2011**
  - Includes the remainder of the recovery projects aligned with the submissions to FEMA
- **Work expected to continue for the next 2-4 years**

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# ORGANIZATION

- **FEMA Category A and Category B**
  - Emergency Response, Debris Removal and Temporary Measures
  - Complete or in close-out audit
  - Current estimated total is more than \$120M
- **FEMA Category E Movable Assets**
  - Replacement of medical equipment, supplies, scientific content, and technology hardware is ongoing
  - Replacement of movable furnishings is being coordinated with the building projects
  - Current estimated total is more than \$60M

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# ORGANIZATION (cont.)

- **Workforce**

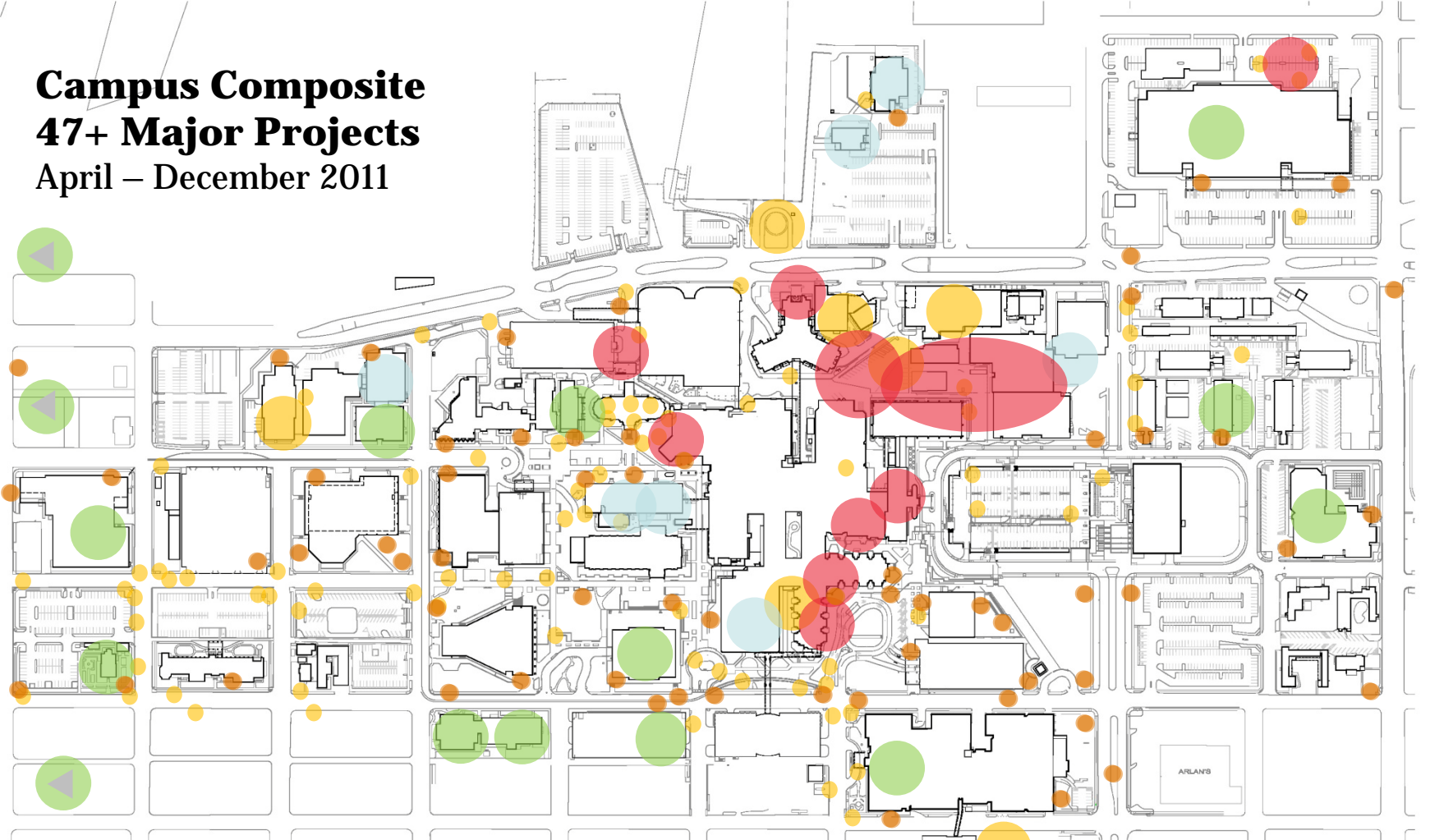
- +400 architects, engineers, technical specialists, and construction management staff are actively involved on a day-to-day basis with the ongoing recovery
- Approximately 1700 contractors approved and working on campus
- Contractor and subcontractor workforce will continue to increase

- **Fixed Asset Repair & Mitigation**

- +20 projects complete
- More than 40 Major Projects underway or expected to commence in Calendar Year 2011
- Current estimated total is more than \$800M

# Underway or Near-term Projects

**Campus Composite**  
**47+ Major Projects**  
April – December 2011



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# JUSTIFICATION FOR INCREASES AND DECREASES IN TOTAL PROJECT COSTS

- **Reconciliations with FEMA**

- Projects align with the recommendations of the UTMB Flood Mitigation Guidelines
- All projects have been submitted to FEMA

- **Refined cost estimates**

- Damage to campus utility infrastructure less defined at time of initial estimates
- Initial repair estimates did not fully address the costs for mitigation and associated operational costs for relocations and temporary utilities
- Scope and cost of each repair and mitigation project resolved by UTMB, U. T. System, and contracted design and construction professional experts

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# PROPOSED TOTAL PROJECT COSTS

- **Four projects totaling \$1,135,678,610**

▪ Academic & Business Buildings	\$251,893,380
▪ Healthcare Buildings	\$285,055,178
▪ Infrastructure	\$522,184,744
▪ Research Buildings	\$ 76,545,308

- **Funding**

- FEMA, Private Insurance, State Matching Funds approved by 81<sup>st</sup> Texas Legislature, and UTMB Hospital Revenues and Grants

- **Financial exposure will be limited**

- Projects will improve resiliency of all UTMB facilities affected by Hurricane Ike and minimize damage from future events allowing a quick return to operation

Amendment to FY 2011-2016 CIP



# APPENDIX



# CONTROL: Contracts and Audit

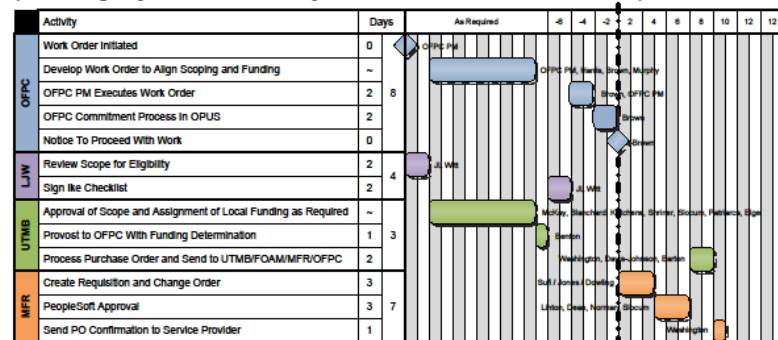
## • Work Order

- Revised process workflow coordinated with UTMB and OFPC
- Subsequent to execution of the prime agreement, the Work Order (WO) is utilized to review, approve and release work
- WO aligns with the FEMA Project Worksheet
- WO informs the requisition of the UTMB Purchase Order (PO)
- PO used by UTMB to issue payment
- WO and PO track to funding source and support audit

### Ike Related Expenditure Related Workflows

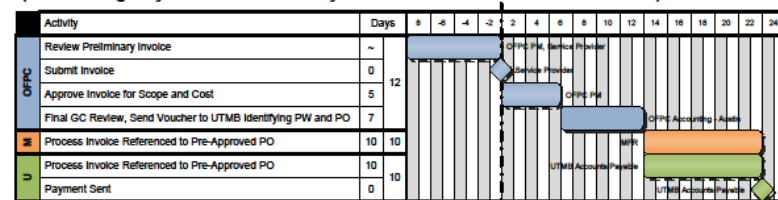
#### Purchase Order Workflow

(9 Working Days – 11 Calendar Days After Notice to Proceed With Work)



#### Invoice Workflow

(22 Working Days – 28 Calendar Days After Notice to Proceed With Work)



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# CONTROL: Construction

## • Screening

- On-site drug testing, criminal background checks, and issuing of photo identification badges
- Installation of radio frequency monitoring to track worker locations and to control site and building access
- Approximately 1700 construction staff have been contracted and approved to work on campus



### Workforce Screening and Disqualifications by Project/Bucket - March 2011

For the Month of March 31, 2011

(Represents the number of workers who have been screened for access into each bucket)

	UTMB	Vaughn	Tellepsen	Manhattan	Linbeck
Total Active Badges Issued in March	6	232	37	193	101

### Workforce Screening and Disqualifications by Project/Bucket - Project To Date

For the period ending March 31, 2011

(Represents the number of workers who have been screened for access into each bucket)

	UTMB	Vaughn	Tellepsen	Manhattan	Linbeck
Total Active Badges Project-to-Date	83	858	157	514	700

Total Multi-Bucket Badges Issued Project-to-Date

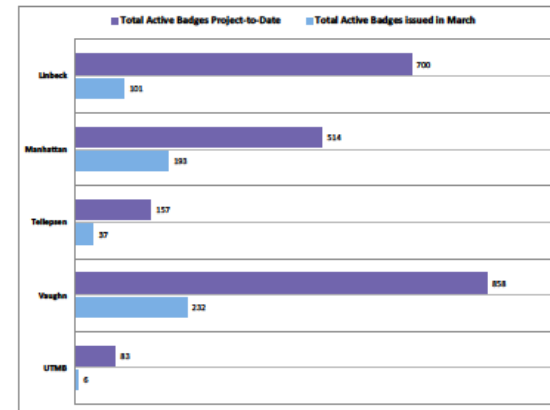
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Active Workforce Statistics

(Represents a calculation of jobs provided project wide)

Total Number of Workers - Jobs Provided - 1,690

Note: Workforce screening counts and number of jobs created may differ, due to the number of buckets per worker issued a multi-bucket badge



# REPORTING: Total Recovery

- Comprehensive reports issued regularly
  - Reports track interaction with FEMA and align the ongoing recovery efforts with anticipated funding

UTMB IKE RECOVERY INITIATIVES			
EXECUTIVE SUMMARY			
For Period Ending 3/29/2011			
<b>TOTAL UTMB IKE (REPAIR, REPLACE &amp; MITIGATION) COST ESTIMATE FOR DAMAGES</b>			
<b>PENDING PROJECTS:</b>	<b>PW Count</b>		<b>Amount</b>
EMERGENCY WORKS & DEBRIS REMOVAL	36	\$	11,455,598
MOVEABLE ASSETS	35	\$	2,370,395
FIXED ASSETS	41	\$	29,546,476
<b>TOTAL PENDING :</b>	<b>112</b>		<b>\$ 43,372,468</b>
<b>SUBMITTED PROJECTS:</b>			
EMERGENCY WORKS & DEBRIS REMOVAL	11	\$	3,645,283
MOVEABLE ASSETS	30	\$	6,839,835
FIXED ASSETS	121	\$	576,493,262
<b>* TOTAL SUBMITTED :</b>	<b>162</b>		<b>\$ 586,978,380</b>
<b>AMOUNT FINALIZED (IN EMMIE):</b>			
<b>-Breakdown of Finalized amounts by Funding source</b>			
Insurance Deductions		\$	52,377,314
Federal Share (Obligated)		\$	356,376,223
State Share (10%)		\$	27,623,289
Future allocations, in EMMIE, not yet Obligated		\$	10,826,959
	<b>1063</b>		<b>\$ 447,203,785</b>
<b>404 HAZARD MITIGATION:</b>			
Submittal being prepared by UTMB		\$	67,153,654
Submitted and in review by TX Dept. Emerg. Mgmt.		\$	69,197,625
Finalized by TX. Dept. of Emerg. Mgmt.		\$	29,101,936
			<b>\$ 165,453,215</b>
<b>TOTALS:</b>	<b>1337</b>		<b>\$ 1,243,007,848</b>

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# REPORTING: Activity

- Biweekly database output

- Activity reporting confirms work in development, work submitted to and in review with FEMA, and finalized and obligated approvals

UTMB IKE RECOVERY INITIATIVE BI-WEEKLY REPORTS																																																																																					
ACTIVITY REPORT																																																																																					
March 18, 2011 - March 25, 2011																																																																																					
UTMB'S ESTIMATE OF PROJECTS UNDER DEVELOPMENT				UTMB'S ESTIMATE OF PROJECTS SUBMITTED*				FINAL FINIALIZED**																																																																													
THRU WEEK ENDING	8/16/2011 to 8/22/2011	THRU WEEK ENDING	8/16/2011 to 8/22/2011	THRU WEEK ENDING	8/16/2011 to 8/22/2011	THRU WEEK ENDING	8/16/2011 to 8/22/2011	THRU WEEK ENDING	8/16/2011 to 8/22/2011	THRU WEEK ENDING	8/16/2011 to 8/22/2011	THRU WEEK ENDING	8/16/2011 to 8/22/2011																																																																								
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Cat A & B	36	\$ 11,455,597.51	\$ -	36	\$ 11,455,597.51	12	\$ 3,680,208.85	\$ (34,926.00)	11	\$ 5,645,282.85	227	\$ 308,739,909.66	\$ -	228	\$ 109,739,909.66																																																																						
MOVABLE ASSETS*	38	\$ 2,383,906.78	\$ (13,512.00)	38	\$ 2,370,394.78	26	\$ 5,262,818.25	\$ 1,577,016.28	30	\$ 6,839,835.04	418	\$ 51,740,968.59	\$ -	418	\$ 51,740,968.59																																																																						
FIXED ASSETS	40	\$ 21,810,299.55	\$ 7,796,176.19	41	\$ 29,546,475.74	123	\$ 568,433,518.00	\$ 8,050,745.30	121	\$ 376,493,261.90	418	\$ 285,350,949.38	\$ 371,957.52	420	\$ 285,722,906.90																																																																						
TOTALS THRU WEEK ENDING 8/22/11	114	\$ 35,649,803.84	\$ 7,722,664.19	115	\$ 43,372,468.03	161	\$ 577,376,543.61	\$ 9,601,836.38	162	\$ 586,978,379.79	1,063	\$ 446,831,827.63	\$ 371,957.52	1,075	\$ 447,203,785.15																																																																						
BREAKDOWN OF FIXED ASSETS BY BUCKET (SUBMITTED)																																																																																					
Academic & Business		18	\$ 11,760,831.00			55	\$ 30,741,494.91				221	\$ 46,472,246.16			\$ 34,864,013.97																																																																						
Healthcare		2	\$ 91,902.00			27	\$ 138,845,516.18				92	\$ 185,310,090.44			\$ 15,665,993.91																																																																						
Infrastructure		7	\$ 4,737,273.00			18	\$ 3,35,299,423.00				46	\$ 3,101,362.20			\$ 431,562.42																																																																						
Research		11	\$ 12,524,898.00			20	\$ 68,415,465.61				61	\$ 106,670,824.80			\$ 738,504.77																																																																						
No Bucket Assigned		3	\$ 431,571.74			1	\$ 3,101,362.20				9	\$ 16,670,824.80			\$ 1,660,449,185.83																																																																						
FIXED ASSETS TOTALS		41	\$ 29,546,475.74			121	\$ 376,493,261.90				420	\$ 285,722,906.90			\$ 1,075,586,532.97																																																																						
UTMB Grand Total Projected Ike Cost Including 406 Mitigation (=Under Development + Submitted + Finalized) :																																																																																					
<table border="1"> <thead> <tr> <th colspan="3">BI-WEEKLY PW'S FROM FIRM</th> </tr> <tr> <th>#</th> <th>\$</th> <th></th> </tr> </thead> <tbody> <tr> <td>Cat A &amp; B</td> <td>0</td> <td>\$ -</td> </tr> <tr> <td>MOVABLE ASSETS</td> <td>6</td> <td>\$ 26,817.57</td> </tr> <tr> <td>FIXED ASSETS</td> <td>20</td> <td>\$ -</td> </tr> <tr> <td>TOTALS THRU WEEK ENDING 8/22/11</td> <td>26</td> <td>\$ 26,817.57</td> </tr> </tbody> </table>													BI-WEEKLY PW'S FROM FIRM			#	\$		Cat A & B	0	\$ -	MOVABLE ASSETS	6	\$ 26,817.57	FIXED ASSETS	20	\$ -	TOTALS THRU WEEK ENDING 8/22/11	26	\$ 26,817.57																																																							
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5. **U. T. Health Science Center – San Antonio: Approval to establish a Doctor of Medical Physics degree program and submit the proposal to the Texas Higher Education Coordinating Board for review and appropriate action**

**RECOMMENDATION**

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Health Affairs and President Henrich that authorization, pursuant to the Regents' *Rules and Regulations*, Rule 40307, related to academic program approval standards, be granted to

- a. establish a Doctor of Medical Physics (DMP) degree program at U. T. Health Science Center – San Antonio; and
- b. submit the proposal to the Texas Higher Education Coordinating Board for review and appropriate action.

**BACKGROUND INFORMATION**

**Program Description**

This program will be offered through The University of Texas Health Science Center – San Antonio's (UTHSC-SA) School of Medicine, Department of Radiology. UTHSC-SA has offered a MS degree in Medical Physics and a Ph.D. in Radiological Sciences since 1989. The proposed DMP program would upgrade the current MS program in Medical Physics, adding two years of standardized clinical training, while allowing students in the existing Ph.D. program in Radiological Sciences to focus on achieving the skills and knowledge required to establish their careers as research scientists. The intent of the program is to enhance and standardize clinical training for medical physicists in a manner that cannot be carried out in the current Ph.D. program in Radiological Sciences.

**Need and Student Demand**

This new program is a response to a need to increase the clinical credentials of medical physicists as they enter the workforce. There is a national shortage of properly credentialed professionals entering the field of Medical Physics. The annual demand is for about 300 to 350 new physicists in the United States while currently only 50 to 60 are being trained.

The new program enrollment would initially be around 15 students. Potential students will be from the students who are currently in the MS program.



### Program Quality

The primary objective of this education program is to train each student to become a Qualified Medical Physicist, i.e., a professional who is able to assure the safe and effective delivery of radiation to achieve a diagnostic or therapeutic result as prescribed in patient care. Each student shall be educated in one of the two broad subspecialties, Diagnostic Imaging Physics (DIP) and Radiation Therapy Physics (RTP). However, the curriculum is constructed with the understanding that these two subspecialties overlap in important areas. Through coursework, students shall become well grounded in topics common to all medical physics subspecialties, including the physics of basic interactions, which is essential to all of radiation oncology physics, diagnostic imaging physics, nuclear medicine physics, and health physics.

The overall goal is to provide the student with didactic clinical training and experiences that will eventually lead to certification and licensure as a professional medical physicist.

### Program Cost

Administrative resources within the School of Medicine, which are currently devoted to administering the Graduate Program in Radiological Sciences, will be made available to administer the proposed DMP program. This will be possible since the Graduate Program in Radiological Sciences is currently undergoing a planned downsizing, with the specific intent to accommodate the administrative requirements of the proposed DMP program using the resources that are currently being applied to the training of medical physicists in other degree programs within the School of Medicine. Formula funding rates are assumed to be approximately what is currently being used for Ph.D. students. Any new costs associated with administrative responsibilities will be taken on by the School of Medicine. The source of funds will be a combination of formula funds and a reallocation of existing institutional resources.

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