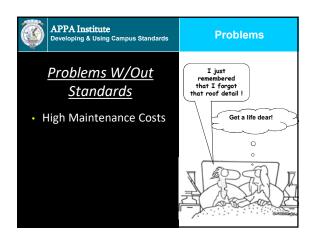


APPA Institute Developing & Using Cam	pus Standards	Benefits
<u>Benefits of</u> <u>Standards?</u>	 Prote Build Pays Le In In Re 	ages cholders Satisfied cts Institutional Interests s Bridges Dividends ss time educating consultants sures higher quality facilities creases consistency educes maintenance needs mits Inventory of parts needed
<u>To</u> Standardize That is	or <u>Not</u> to s the Questi	

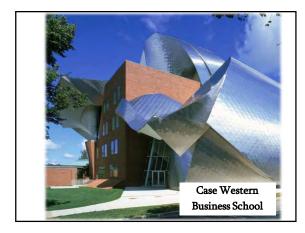
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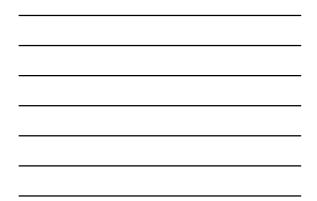


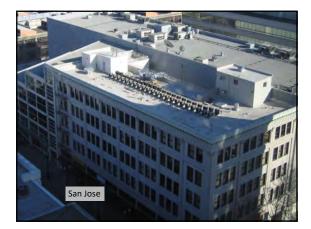


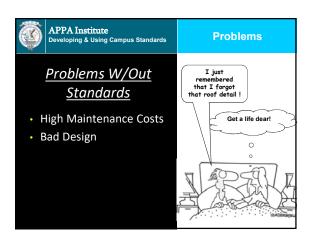


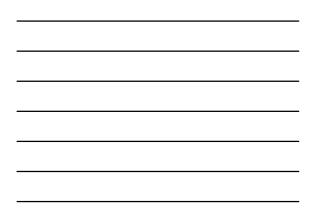
















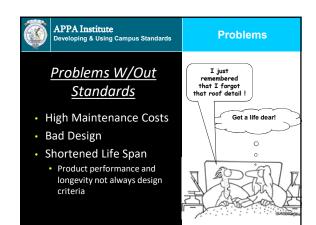


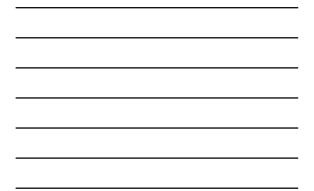










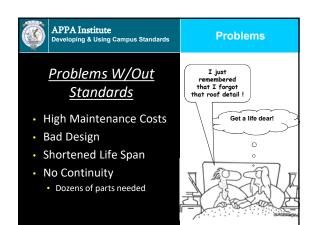


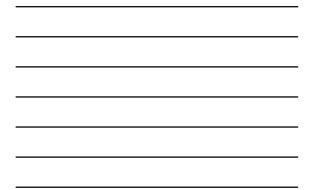












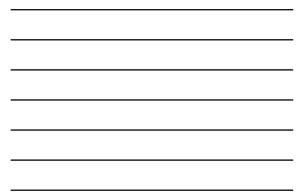


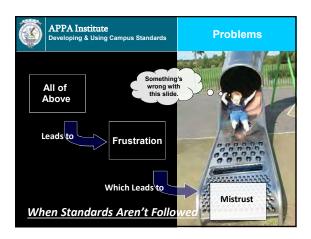










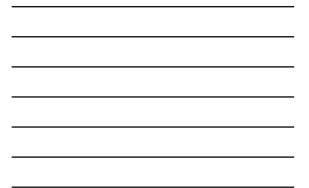




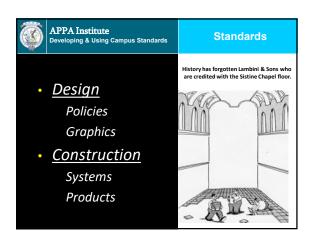








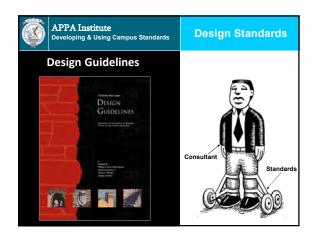


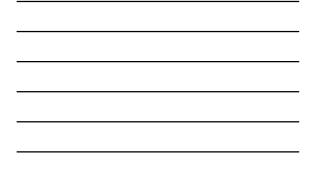




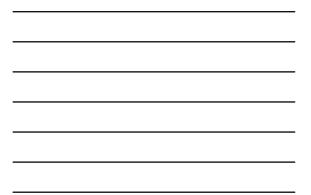


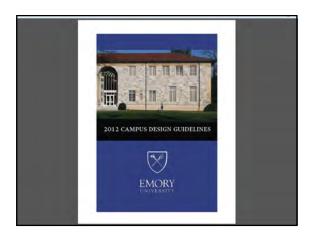












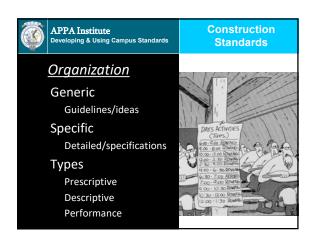


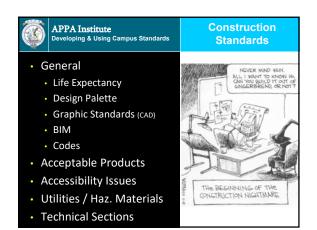








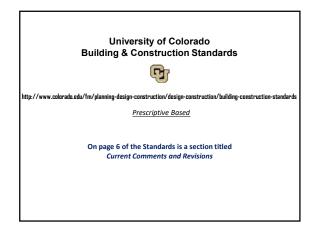






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Emory Construction Standards

http://www.fm.emory.edu/design.shtml

Prescriptive Based

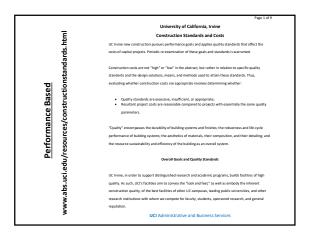












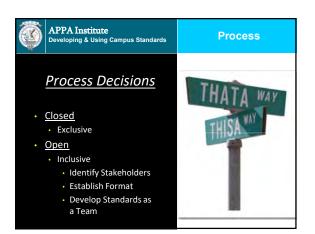








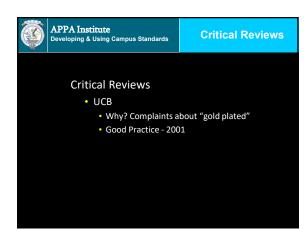


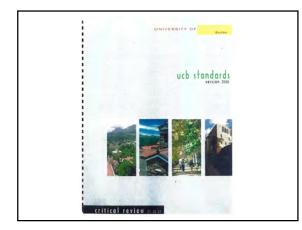


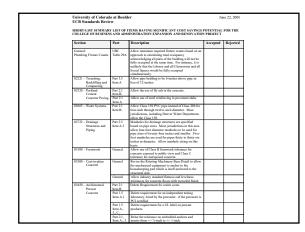




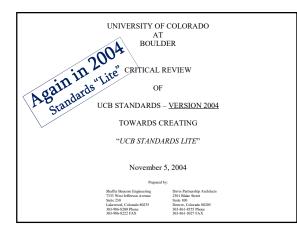




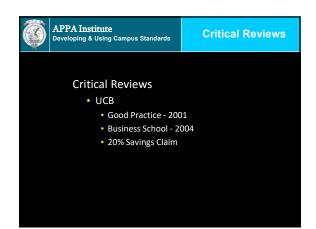












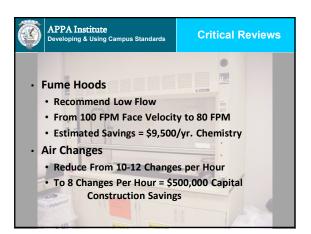


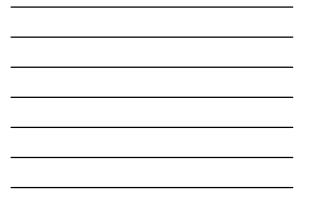
21-4p-10	A Critical Review of Emory Design & Construction Standards	
A review of the current Empry Design & Construction Standards produ	ced several areas for consideration of recommended revisions.	
This sheet summarizes the outcomes of the major areas of recommen		
General	Recommendation	Outcome
FM Global reviews are sometimes inefficient and unchallenged	Revise the seview process for more efficiency and challenge FM Global seconvendations that do not add sufficient value	We are actively engaging FM Global with each project and questioning their recommendations with the intent of ensuing the best value to Emory before implementing their recommendation. We have revised the review process to more efficient and have an on line negoons process.
Construction lights are on all night	Require the construction lights to be turned off at night after work hours	This requirement has been added to the standards.
Amount of space dedicated to support functions in new buildings; i.e. custodial, maintenance, security, Netcom, etc. is burdensome	Examine the actual need and amount for decicated service space and consider some sharing of spaces; this will require broad discussion	This issue will be discussed on a project by project basis with the actual need requiring justification before implementation, rather than just default to an automatice assignment of spaces.
The use of expensive security screens on residence halls is expensive	Explore lower cost alternatives	The exploration of alternative screen materials resulted in a conclusion that this change would increase long term materiance costs and have the potential to degrade the exterior seathedic quality of the buildings for the residence halls an should not be parsued further.
Testing new wallboard products for asbestos	Eliminate EHSO required testing of new products and rely on manufacturer's certifications	EHSO has agreed to eliminate this requirement with the confirmation of appropriate terminate current certification for the exclusion of asbestos in the manufacturing of their products.
Built in walk off mats are required	Use floor mats	While this was previously disallowed, the USGBC has now agreed to allow LEE credits for the use of foor mats.
Fume hood face velocity and air changes are higher than necessary	Explore reductions in the face velocity and air change requirements for fume hoods; this will require discussion with DHSD	We have worked coopensitively with DISO to reduce the air changes per hour labs from 10 air changes down to 8 and to consider the saw of high performance fame hoods, when appropriate, Thic change has an exalted in a projected univerg \$12 million in capital costs and \$73,300/year savings in energy costs in the ner HSRB project alone.
Elevator rooms require shict environmental conditions	Relax environmental requirements on elevator machine rooms	There have some code sequences that have been velocat concerty, so car deviate standards will infect those mecload requirements. We are also exami- te effects of brandening the range of allowable environmental conditions for machine nones to that we can allow the standard environmental conditions for combine the unit with the UTS neplements for a more efficient and cost effect design. This is us negling discussion.
Plumbing		
Proprietary and sole source requirements on many plumbing fixtures are equipment	Broaden allowable product lines	The acceptable manufacturers for these products have been expanded.
Secondary containment traps are required for laboratory vacuum systems	Embros technician containment procedures and eliminate secondary traps	This is a secondary containment protocol that supplements current technician procedures. We should not change this in the Carcinogenic labs, but we are in discussions with EHGO to see if this requirement can be weived in other labs.
Issue	Becommendation	Outcome
Tight environmental controls in the design of mechanical systems	Ruisz allovable range of design parameters	After a great deal of research and discussion on this topic, we mached the conclusion that any changes to the accepted design parameters could result in numerous acceptant compatent about sight desorted dating extrems water cycles. This could lead to a perception that new yestems are thang or poorly designed and cat als de effection on the university administantion. Considering patiential consequences, it was foll that a boader discussion with widespread majorith the full as world be registed boates implementation.
All mechanical rooms are to be served by elevators	Consider alternative building designs to eliminate the need for elevator access to a machanical mome	This requirement will be revised to read "The need for elevators serving mechanical rooms shall be discussed with Campus Services Engineering prior

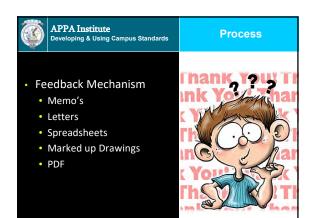
ustainability Requirements	Room Name	Requirement	Notes
Basic Program			
Basic Program Requirements)			
(equirements)			
	Changing Rooms (USGBC LEED		Single Occupancy ADA compliant shower and
	Credit 4.2)	0.5% of FTE	
	Credit 4.2)	0.5% OF FIE	changing room. Every project must consider covered bicyce storage
			Emory is conscientiously locating these spaces
	Bicycle Storage Rooms (USBGBC		through out the campus and a new project may or
	LEED Credit 4.2)	0.5% of FTE	not be required to have this space depending on
		100 sq. ft. for 100,000 sq. ft. bdg.	
		One recycling room per floor is required for	
	Recyclying Room (Section 01 78 23)	residential projects.	10 x10 ft. close to loading dock.
Universal Design			
Basic Program			
			Except for residential projects, Typically located ne
	Lactation Rooms	Single occupant ADA compliant room	a women's restroom.
			except for residential projects. Can be used as a
	Single Occupancy/ Family Restroom	Unisex ADA compliant restroom	child changing room.
uilding Services, Custodial &			
Building Maintenance			
	Janitorial Rooms	80 sg. ft. per Floor	min. 8 ft x 10 ft.
		Up to 50,000 sq. ft. = 10' x 10'	
		Between 50,000 & 10,000 sq. ft. = 15'x15'	
		Between 100,000 & 200,000 sq.ft. = 20' x 20'	Convenient access to the loading dock. Lockable
	Custodial Support Room	Over 200,000 sq. ft. = 25' x 25'	double doors are preferred.
	Custodial Staff Support Room		
		Up to 50,000 sq. ft. = 10' x 10'	
		Between 50,000 & 10,000 sq. ft. = 15'x15'	
		Between 100,000 & 200,000 sq.ft. = 20' x 20'	1
	Building Maintenance Shop	Over 200,000 sq. ft. = 25' x 25'	
		Up to 50,000 sq. ft. = 10' x 10'	
		Between 50,000 & 10,000 sq. ft. = 15'x15'	1
		Between 100.000 & 200.000 sg. ft. = 20' x 20'	1
	Building Maintenance Office	Over 200.000 sq. ft. = 25' x 25'	

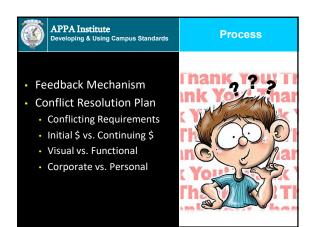
Changing Room (Bicycle riders)	50 SF
Bicycle Storage	100 SF
Recycling	100 SF
Lactation Room	30 SF
Unisex Restroom	30 SF
Custodial Closet	450 SF (80 per floor X 5 floors)
Custodial Support	225 SF
Custodial Staff	200 SF
Building Maintenance Shop	625 SF
Building Maintenance Office	625 SF
Attic Stock Storage	100 SF
Communications Room (Netcom)	2200 SF (110 SF per 10,000 SF floor area)
Building Security Room (access services)	80 SF
	4,815 SF

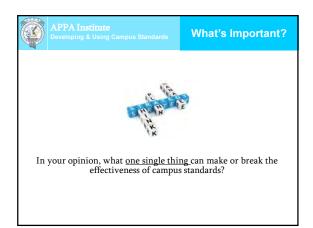












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APPA Institute Developing & Using Campus Standards

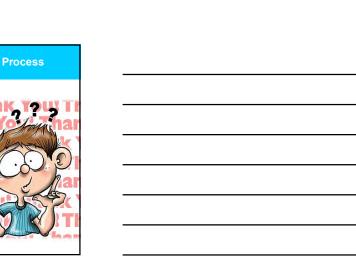
Collaboration between PDC and

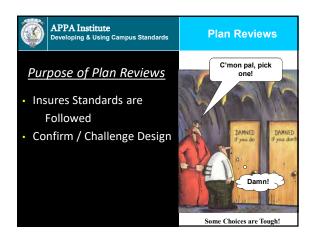
Feedback Mechanism
 Conflict Resolution Plan

 Conflicting Requirements
 Initial \$ vs. Continuing \$
 Visual vs. Functional
 Corporate vs. Personal

Plan Reviews

Operations







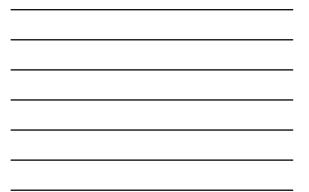


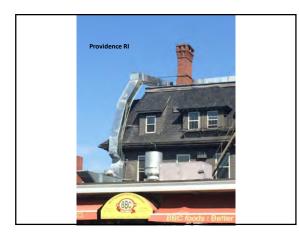


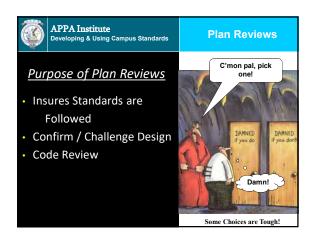


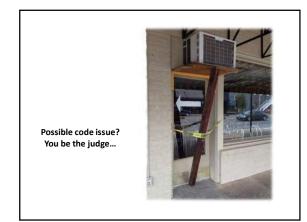






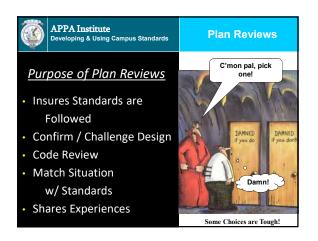








Possible code issue? You be the judge...





APPA Institute
Developing & Using Campus StandardsPlan ReviewsBenefits of Plan ReviewsHa, ha Biff.
Guess what?
I'm going to the vet to get
tutored!Involve Stakeholders
Insures Quality
Establish Expectations
Verify Results
Develops ProcessHa, ha Biff.
Guess what?
I'm going to the vet to get
tutored!

APPA Institute Developing & Using Campus Standards

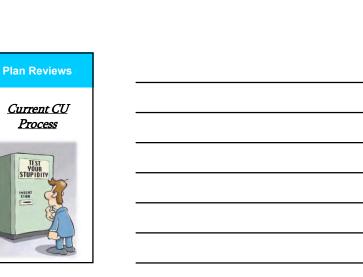
Plan Review Coordinator

Email request for plan review

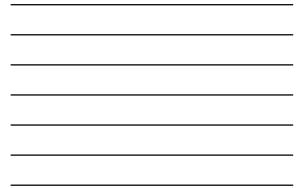
Check for required information Reviewers log-in each morning to check for new notices Plan review room w/30" HD monitor (all electronic)

Part time retire

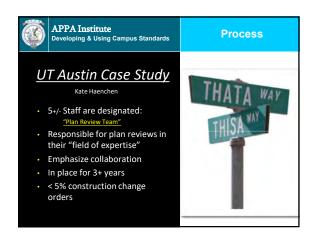
Log the requestEstablish due date







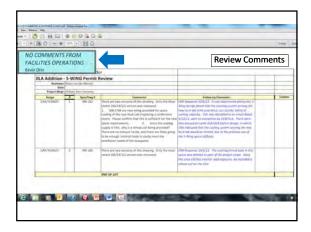
APPA Institute Developing & Using Campus Standards	Plan Reviews
 Plan Review Coordinator Part time retiree Email request for plan review Log the request 	<u>Current</u> <u>Process</u>
 Establish due date Check for required information Reviewers log-in each morning to check for new notices 	TEST STUP IDITY
 Plan review room w/30" HD monitor (all electronic) 	5100
PRC checks deadlines	
Emails comments to PM's	
 3-5 day turnaround 	



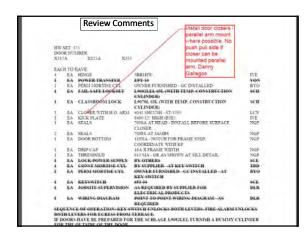




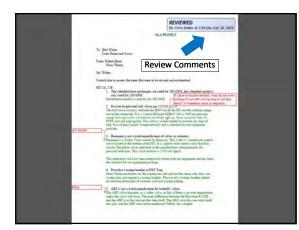












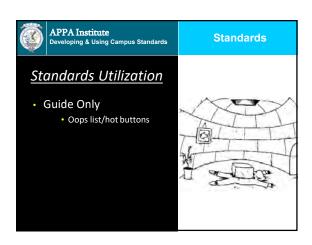


EMORY UNIVERSITY		
	Campus Services	
	Design Review Form for	
c	Clinic Utility Relocation	
	August 27, 2007	
Forum (Later sector) Alderen Concept 2012 Di organi sector este e di conceptante	5.4 404 727 T 911	
	Fax 404 727 2127	



						Schematic Review Cor	Design nments	Pack	age	
To:		Greg Johnson		Date:	8/27/	07				
Company:		Newcom	b & Bo	oyd		From:	Bill C	hatfiek	8	
	Suite 525 303 Peachtree Center A Atlanta, GA 30303-127		Center Ave, 0303-1277	NE	Address:		Idress: Emory University 301 FM Drive Atlanta. GA 30322			
	Project:	Clinic Uti	lities F	Relocation						
	Project #:	803620								
Emory #:	Building ID	n/a								
ltem No.	From	Date Rec	s d #	iheet/ Spec	Comment/Issue				Response	Date Action Require
SD-1	R Manchester		M4.1		ple Text					
SD-2	T Bozeman	1/13/07	S3.1	Exam	ple Text					
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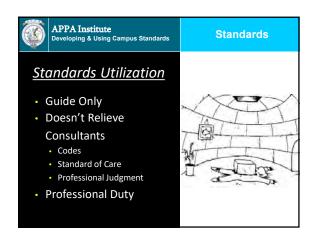


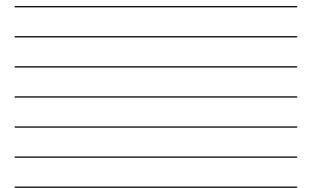


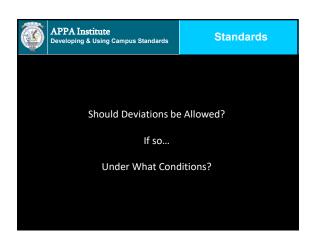








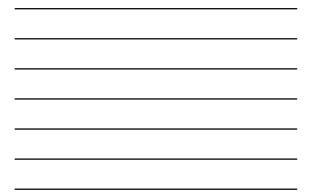


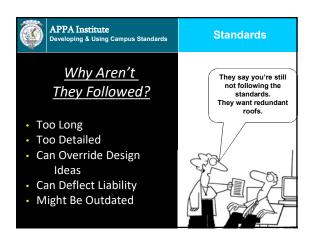


















	APPA Institute Developing & Using Campus Standards	Updates
* • •	<u>Updates</u> Continuous Semi-Annual Annual	
	Formal vs. Informal	

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