



APPA Institute Developing & Using Campus Standards What Are Standards? Why Have Standards? How Do You Develop Them? Who Are Project Stakeholders? How Are They Integrated? How To Create Feedback? How Do You Revise Them? How Do You Insure Their Use?



-2



which the institution believes to be representative of <u>desirable</u> <u>practices for projects</u>"





























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	APPA Institute Developing & Using	Campus Standards			
IOWA				ulding Coordinators Bearth thi she	Search
Facilitie	Home	ABOUT US * PHOJECTS * SEM	MICES CAMPUS SPACES	ENERGY & ENVIRONMENT	CONTACT US
	Design Standards DESIGNING FOR FACILITIE	and Procedures as stewardship			
	The University of Iowa Design Standars University of Iowa capital projects. The building systems, operations, landscap and the stakeholders at the University of	as & Procedures is for use by Architects, Engineer document represents the collaboration of many w iong, and construction. It is important that each pro of Iowa.	s and Interior Designers to ensure t ith a rich institutional understanding ject effectively balance the needs r	he successful delivery of of building function, of the user, the institution,	
	Designing for facilities stewardship star Procedures exists to assist the Design I University of Iowa.	ns with an understanding of the institution's qualitat Professional by setting the minimum institutional re	tive and quantitative priorities. The quirements for the decision-making	Design Standards & involved in projects at the	
	Design Standards and Procedures			+	
	Archive Versions			+	
	Bulated Forms			+	



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28





30

APPA Institute

Design Palette

Technical Sections

General

 BIM Codes

















·35



































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University of Colorad UCB Standards Revi SHORT-LIST SUMMAR	er TEMS HAVING SIGNIFICANT COST SAVINGS	June 22, 2001		
COLLEGE OF BUSINES	SS AND ADM	IINISTRATION EXPANSION AND RENOVATIO Description	N PROJECT Accepted	Rejected
General: Plumbing Fixture Counts	UBC Table 29A	Allow minimum required fixture counts based on an approach to calculating total occupancy acknowledging all parts of the building will not be fully occupied at the same time. For instance, it is unlikely that the Library and all Classrooms and all Social Spaces would be fully occupied simultaneously.		
02221 - Trenching, Backfilling and Compacting	Part 3.3 Item A	Allow pipe bedding to be 6-inches above pipe in lieu of 12-inches.		
02520 - Portland Cement Concrete Paying	Part 2.1 Item B.	Allow the use of fly ash in the concrete.		
02665 – Water Systems	Item A Part 2.1 Item B.	Allow Lass 150 PVC pipe instead of Class 200 for four-inch through twelve-inch diameter. Most jurisdictions, including Denver Water Department,		
02722 - Drainage Structures and Piping	Part 2.3 Item A.3	anow mee class of allow and an analysis of the second seco		
03100 - Formwork	General	Allow use of Class B formwork tolerance for concrete exposed to public view and Class C tolerance for unarranced concrete		
03300 - Cast-in-place Concrete	General	Revise the Rotating Machinery Base Detail to allow the mechanical equipment to anchor to the housekeeping pad which is itself anchored to the structural slab.		
03450 - Architectural	General Part 2.1	Allow industry standard flatness and levelness tolerances for concrete floors with troweled finish. Delete Requirement for sealer coats.		
Precast Concrete	Item B Part 1.5 Item A.1	Delete requirement for an independent testing laboratory, hired by the precaster, if the precaster is PCI certified.		
	Part 1.5 Item A., 3., C.	Delete requirement for a UL label on precast products.		
1	Part 2.1, Item A 2	Retax the toterance on embedded anchors and incents from ±1.16 inch to ±1.1 inch		



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<image/> <section-header><section-header><section-header></section-header></section-header></section-header>			
<text></text>	EMORY 21-Apr-10	A Critical Review of Emory Design & Construction Standards	
basis basis control Second control and second control	A review of the current Emory Design & Construction Standards produ This sheet summarizes the outcomes of the major areas of recommen-	ced several areas for consideration of recommended revisions. dations which can be implemented.	
Mediation are a unique particular particula	General Issue	Recommendation	Outcome
Description Performance length of the set le	FM Global reviews are sometimes inefficient and unchallenged	Revise the review process for more efficiency and challenge FM Global recommendations that do not add sufficient value	We are actively engaging FM Global with each project and questioning their scontrendations with the intent of ensuing the beat value to Ernory before implementing their econtrementations. We have revised the review process to be more efficient and have an on the response process.
And or definition in the second of a signal by high the set of an expert share and a signal by high the set of a signal	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.
Image: Instrument words present on words to substant this support Reports on designment words present on words to substant the substant the substant to substant the substant to substant the substant to substant to substant the substant to sub	Amount of space dedicated to support functions in new buildings; i.e. custodial, maintenance, security, Netcorn, etc. is burdensome	Examine the actual need and amount for dedicated 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 ackaal need requiring justification before implementation, rather than just default to an automatice assignment of apaces.
And or washing or was	The use of expensive security acreers 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 maintenance costs and have the potential to degrade the exterior earstwic quality of the buildings for the residence halfs and should not be pursued farther.
In the shall when are singlest In the same singlest In the same singlest In the same single same singlest same	Testing new wellboard products for subestos	Eliminate EHSO required teating of new products and rely on manufacturer's certifications	EHSO has agreed to eliminate this requirement with the confirmation of appropriate manufacturers certification for the exclusion of asbestos in the manufacturing of their products.
En Image: I	Built in walk off mats are required	Use floor mata	While this was previously disallowed, the USGBC has now agreed to allow LEED credits for the use of floor mats.
Material construction Rate relations and stages and analyzed on the stages and st	Furse hood face velocity and air changes are higher than necessary	Explore reductions in the face velocity and air change requirements for fame hoods; this will require discussion with EHSO	We have worked coopensitively with EHSD to reduce the air changes per hour in labe horn 10 air changes down to 8 and to consider the use of high performance them hoods, when appropriate. This change has nearealized as a rejected savings of \$1.2 million in capital costs and \$73,300/year savings in energy costs in the new HSRD project alone.
Database Proceedings and an accurate sequence to many priority factors and processing and accurate sequence to many priority factors and processing and accurate sequence to many priority factors and processing and processing and procesing and processing and processi	Elevator nooma require attict environmental conditiona	Relax environmental requirements on elevator machine norms	here here score code requirements that have been related "score", to or new devoter landschot, will related these related requirements (W are wallie scenning the effects of broadering the range of allowable environmental conditions for the anchose norms to that w can eliminate the need for a dedicated IVAC unit or combine the unit with the UTS requirements for a more efficient and cost effective args. This is an enging discussion.
Number of the state	Plumbing		
Searching many an squared for laborative many and the	Proprietary and sole source requirements on many plumbing fictures and equipment	Broaden allowable product lines	The acceptable manufacturers for these products have been expanded.
Back Big	Secondary containment traps are required for laboratory vacuum systems	Enforce technician containment procedures and eliminate secondary traps	This is a secondary containment protocol that supplements current technician lab procedures. We should not change this in the Carcinogenic labs, but we are in discussions with EHISO to see if this requirement can be waived in other labs.
Mare specific de services Ma	Mechanical	Recommendation	Outcome
All mechanical rooms are to be served by elevators Consider alternative building designs to elevator access to all This requirement will be revised to read "The need for elevator access This requirement will be revised to reade the cleanation of the elevator access This requirement will be revised to reade the cleanation of the elevator access This requirement will be revised to reade the cleanation of the elevator access This requirement will be revised to reade the cleanation of the elevator access This requirement will be revised to reade the cleanation of the elevator access This requirement will be revised to reade the cleanation of the elevator access This requirement will be revised to reade the cleanation of the elevator access This requirement will be revised to reade the cleanation of the elevator access This requirement will be revised to reade the cleanation of the elevator access This requirement will be revised to reade the cleanation of the elevator access This requirement will be revised to revised to revise the elevator access This requirement will be revised to revise the elevator access This requirement will be revised to revise the elevator access This requirement will be revised to revise the elevator access This requirement will be revised to revise the elevator access This requirement will be revised to revise the elevator access This requirement will be revised to revise the elevator access This requirement will be revised to revise the elevator access This requirement will be revised to revise the elevator access This requirement will be revised to revise the elevator access This requirement will be revised to revise the elevator access This requirement will be revised to revise the elevator access This requirement will be revised to revise the elevator access This requirement will be revised to revise the elevator access This requirement will be revised to revise the elevator access This requirement will be revised to revise the elevator access This requirement will be revised to revis	Tight environmental controls in the design of mechanical systems	Rulax allowable range of design parameters	After a great deal of research and discussion on this topic, we reached the conductor that any changes to the accepted design parameters could result in namerous accounter comparish about all difficustreficit dram generates weather cycles. This could lead to a perception that new systems are faulty or poorty degreed and cat at a de indication on the university administration. Considering the polntial consequences, it was thit that a traveler ducation with sidespread augoon for this date words her engined before implementation.
	All mechanical rooms are to be served by elevators	Consider alternative building designs to eliminate the need for elevator access to al mechanical corns.	This requirement will be revised to read "The need for elevators serving mechanical rooms shall be discussed with Cempus Services Engineering prior to



emory presign & Construction St	anuarus 2007 cultion - Room Requireme	nis	
	Room Name	Requirement	Notes
Sustainability Requirements			
(Basic Program			
Requirements)			
	Changing Rooms (USGBC LEED		Single Occupancy ADA compliant shower and
	Credit 4.2)	0.5% of FTE	changing room.
			Every project must consider covered bicylce 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 Boom (Section 01 78 23)	residential projects	10 x10 ft close to loading dock
Iniversal Design			
Paris Program			
dusterrogram			Format for any idential projects. The inclusion and any
			except for residential projects. Typically located nea
	Lactation Rooms	Single occupant AUA compliant room	a women's restroom. Except for residential projects. Can be used as a
	Single Occupancy/ Family Bestroom	Unisex ADA compliant restroom	child changing room
Building Services Custodial &			
Building Maintenance			
	Janitorial Booms	80 sq. 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 sg. ft. = 20' x 20'	Convenient access to the loading dock. Lockable
	Custodial Support Room	Over 200.000 sg. ft. = 25' x 25'	double doors are preferred.
	Custodial Staff Support Boom		
		lip to 50,000 sq. ft = 10' x 10'	
		Retween 50,000 & 10,000 rg, ft = 15'x15'	1
		Detween 50,000 a 10,000 34.11 15 x15	
		between 100,000 & 200,000 sq. ft. = 20' x 20'	1
	Building Maintenance Shop	uver 200,000 sq. tt. = 25' x 25'	
		up to 50,000 sq. ft. = 10' x 10'	1
1		Between 50,000 & 10,000 sq. ft. = 15'x15'	1
		Between 100 000 & 200 000 so ft = 20' x 20'	1

	Changing Rooms (USGBC LEED		Single Occupancy ADA compliant shower and
	Credit 4.2)	0.5% of FTE	changing room.
			Every project must consider covered bicyice 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.
niversal Design			
asic Program			
			Except for residential projects. Typically located nea
	Lactation Rooms	Single occupant ADA compliant room	a women's restroom.
			Except for residential projects. Can be used as a
	finals Original family Bestmann	Unizex ADA compliant restroom	child changing room.
suilding Services, Custodial &	Single Occupancy Fainity Rescioni	on sex ADA comprisin residoni	
uilding Services, Custodial &	Single Coopancy Family Restroom		
uilding Services, Custodial & uilding Maintenance	Janitorial Rooms	80 sq. ft. per Floor	min. 8 ft x 10 ft.
uilding Services, Custodial & uilding Maintenance	Janitorial Rooms	80 sq. ft. per Floor	min. 8 ft x 10 ft.
uilding Services, Custadial & uilding Maintenance	Janitorial Rooms	80 s.q. ft. per Floor Up to 50,000 s.q. ft. = 10' x 10'	min. 8 ft x 10 ft.
uilding Services, Custadial & uilding Maintenance	Janitorial Rooms	80 sq. ft. per Floor Up to 50,000 sq. ft. = 10" x 10" Between 50,000 & 10,000 sq. ft. = 15'x15"	min. 8 ft x 10 ft.
uilding Services, Custodial & uilding Maintenance	Janitorial Rooms	80 sq. ft. per Floor Up to 50,000 sq. ft. = 10° × 10° Between 50,000 sq. ft. = 21° × 23° Between 10,000 sq. ft. = 20° × 20°	min. 8 ft x 10 ft. Convenient access to the loading dock. Lockable
uilding Services, Custodial & uilding Maintenance	Janitorial Rooms	80 sq. ft. per Floor Up to 50,000 sq. ft. = 10' x 10' Between 50,000 k 10,000 sq. ft. = 15'x15' Between 100,000 k 200,000 sq. ft. = 20' x 20' Ower 200,000 sq. ft. = 25' x 25'	min. 8 ft x 10 ft. Convenient access to the loading dock. Lockable double doors are preferred.
uilding Services, Custodial & uilding Maintenance	Janitorial Rooms Lanitorial Support Room Custodial Support Room Custodial Staff Support Room	80 sg. ft. per Floor Up to 50,000 sg. ft. = 10' x 10' Between 50,000 & 20,000 sg. ft. = 15' x15' Between 100,000 & 20,000 sg. ft. = 20' x 20' Cher 2000 sg. ft. = 25' x 25'	min, 8 ft s 10 ft. Convenient access to the loading dock. Lockable double doon, are preferred.
uilding Services, Custodiai & uilding Maintenance	anitorial Rooms Cuttodial Support Room Cuttodial Support Room	80 ig. ft. per Floor Up to 50,000 ig. ft. = 10" x 10" Between 50,000 & 30,000 ig. ft. = 15'x15' Between 50,000 & 30,000 ig. ft. = 30" x 20' Op to 50,000 ig. ft. = 10" x 10"	min, 3 ft x 10 ft. Convenient access to the loading dock. Lockable double doon, are preferred.
uilding Services, Custodial & uilding Maintenance	Janitorial Rooms Linitorial Rooms Custodial Support Room Custodial Staff Support Room	$\begin{array}{l} 80 \mathrm{isg}, \mathrm{fh}, \mathrm{per} \mathrm{fluor}, \\ \mathrm{Up} \mathrm{do} \mathrm{S0} \mathrm{do} \mathrm{do} \mathrm{sg}, \mathrm{fh} = 10^{-1} \mathrm{S1}^{-1} \\ \mathrm{per} \mathrm{do} \mathrm{S0} \mathrm{do} \mathrm{do} \mathrm{sg}, \mathrm{fh} = 10^{-1} \mathrm{sg}, \\ \mathrm{per} \mathrm{do} \mathrm{sg} \mathrm{do} \mathrm{do} \mathrm{sg}, \mathrm{fh} = 10^{-2} \mathrm{sg} \mathrm$	min. 8 ft s 10 ft. Convenient access to the loading dock. Lockable double doors are preferred.
uliding Services, Custodial & uliding Maintenance	Janitorial Rooms Janitorial Rooms Custodial Support Room Custodial Support Room	8019, ft. per Flaor Up to 50,000 sq. ft. = 10" x 10" Between 50,000 & 50,000 sq. ft. = 15"x15" Between 50,000 & 50,000 sq. ft. = 10"x15" Over 20000 sq. ft. = 25" x 25" Der 50,000 & ft. = 10" x 10" Between 50,000 & 50,000 sq. ft. = 15"x15" Between 50,000 & 50,000 sq. ft. = 20" x 20"	min. 8 ft a 10 ft. Convenient access to the loading dock. Lockable double doors are preferred.
uilding Services, Custodial & uilding Maintenance	Innitorial Rooms Custofial Support Room Custofial Support Room Building Maintenance Shop	Bits (1), per Floor Up to 50,000 st; (h = 10" × 10") Between 50,000 st; (h = 10" × 10") Between 50,000 st; (h = 20" × 10") Between 20,000 st; (h = 20" × 10") Up to 50,000 st; (h = 20" × 10") Up to 50,000 st; (h = 20" × 10") Up to 50,000 st; (h = 20" × 10") Between 20,000 st; (h = 20" × 10")	min. 8 ft s 10 ft. Convenient access to the loading dock. Lockable double doon are preferred.
ullding Services, Custodial &	Anitorial Econs	80 14, 16 200 100 100 100 100 100 100 100 100 100	min. 8 ft s 10 ft. Convenient access to the loading dock. Lockable double doon, are preferred.
viliding Services, Custodial &	Jania Loopainy Frining Frindrace Janitorial Rooma Custodial Support Room Custodial Support Room Building Maintenance Shop	$\label{eq:response} \begin{array}{c} Bits q, 1, per floor\\ Up to 50,000 s, ch. = 10^{\circ} x 10^{\circ}\\ Between 50,000 s, 000 s, ch. = 10^{\circ} x 10^{\circ}\\ Between 50,000 s, 000 s, ch. = 20^{\circ} x 20^{\circ}\\ Mar 2,0000 s, ch. = 27 x 40^{\circ}\\ Between 50,000 s, 000 s, ch. = 10^{\circ} x 10^{\circ}\\ Between 50,000 s, 000 s, ch. = 10^{\circ} x 10^{\circ}\\ Between 50,000 s, 000 s, ch. = 10^{\circ} x 10^{\circ}\\ Between 50,000 s, 000 s, ch. = 10^{\circ} x 10^{\circ}\\ Between 50,000 s, 000 s, ch. = 10^{\circ} x 10^{\circ}\\ Between 50,000 s, 000 s, ch. = 10^{\circ} x 10^{\circ}\\ Hetween 50,000 s, 000 s, ch. = 10^{\circ} x 10^{\circ}\\ Between 50,000 s, 000 $	min. 8 ft = 10 ft. Convenient access to the leading dock tookable double doon are preferred.
Building Services, Custodial &	Initial Booms	Bits (1): per Floor Up to 50,000 rs, th = 107 v 107 Between 50,000 A 10,000 rs, th = 20 v 107 Between 50,000 A 10,000 rs, th = 20 v 107 Between 50,000 A 10,000 rs, th = 10 v 107 Between 50,000 A 10,000 rs, th = 20 v 107 Between 50,000 A 10,000 rs, th = 20 v 107 Between 50,000 A 10,000 rs, th = 20 v 107 Between 50,000 A 10,000 rs, th = 20 v 107 Between 50,000 A 10,000 rs, th = 20 v 107 Between 50,000 A 10,000 rs, th = 15 v 107 Between 50,000 A 10,000 rs, th = 15 v 107 Between 50,000 A 10,000 rs, th = 15 v 107	min. 8 ft x 10 ft. Convenient access to the loading dock. Lockable double doorn are preferred.

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 SE

A calculation of the cost of these spaces when applied to a new 200,000 SF building:









-59





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					Schematic Review Co	Design mments	Pack	age		
To:		Greg Joh	nson			Date:	8/27/0	07		
Comp	pany: Carez Jornisoft Date: 02/10/ From: Bill Chatfield Suite 525 303 Peachtree Center Ave, NE Address: Emory University 303 Peachtree Center Ave, NE		e 20222	ty						
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Design & Con	struction	DE TRANCIA REQU	Deviation	Request Number
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UI Project N	ame:			
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Design Profe	essional (DP):		DP Representative:	
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Description	of Deviation: (att	ach additional page(s) as need	nd)	
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	CHANGE REQUEST FORM
This form shall be used to reques and return via e-mail for further of	st a change to the UI Design Standards & Procedures manual. Please con consideration:
Facilities Management – Design S Attn: Mike Kearns 200 USB Iowa City, IA 52242 michael-kearns@uiowa.edu	itandards & Procedures
Requestor's First and Last Name:	Date
Department Name:	
Email address:	Phone:
Design Standards Edition:	Section Number: Page Number
Justification:	



<mark>•85</mark>



<mark>•86</mark>