

LACC

CAMPUS STANDARDS- MATRIX

(Note: Campus Preferences are indicated first, followed by additional manufacturers in which are being considered by LACCD.)

PLEASE READ & FOLLOW THE DIRECTIONS PROVIDED BELOW

"The Campus Standards Matrix is to be used as a guide . LACC has a comprehensive design standards which governs the design of any of our projects. In case there is a valid need to deviate from these Standards , a request will need to be submitted in writing to and a formal written approval needs to be received from the LACC Campus Maintenance & Operations (M&O) or IT Departments.

This is a living document and updates regularly ; therefore , one should check with the M&O Department for the most updated version before proceeding

These design standards are not to be deviated from for the purpose of value engineering unless formally approved by M&O or IT

STANDARD		CAMPUS ALTERNATIVES
1	DIV. 08: OPENINGS	
2	HARDWARE	
3	KEY SYSTEMS	SCHLAGE Everest Primus IC Core, Level 9G Stamp with "Do Not Duplicate"
4	RIM CYLINDER	SCHLAGE Everest Primus IC Core, Level 9G
5	DEADBOLTS	SCHLAGE B700 Series
6	PADLOCKS	Schlage Kryptonite KS
7	DOOR POSITION SWITCH	Ives 7764
8	LOCKSET	Schlage Mortise L9000 Series, 03N
9	Cylindrical	Schlage "ND"FSIC
11	HINGES	Ives 3CB1
12	CONTINUOUS:	IVES 700
13	CONTINUOUS:	Zero 919STST
14	CONTINUOUS:	MARKAR FM 300 SERIES
15	ELECTRICIFIED	Ives 3CB1TW 4 OR 8
16		VON DUPRIN-98 SERIES
17	EXIT DEVICES - electrified	VON DUPRIN 996L-F LEVER AX TRIM AT RATED OPENINGS WITH 98
18		Ives VR pulls where applicalbe. Don't spec vertical rods
19	KEY REMOVABLE MULLION POST for double door exit device opening	(NON FIRE) VON DUPRIN KR4954
20		(FIRE RATED) VON DUPRIN KR9954
21	CLOSER	LCN - 4040XPIN SWINGING
22		LCN - 4040XP EDA OUT SWINGING
23	ADA COMPLIANT PEDESTRIAN SWING DOOR OPERATOR	LCN Senior Swing series, surface mounted
24	CARD READER	HID-ICLASS SE 13.56 MGHZ, R40 Typ. For iClass card (sole-source). Requires ICLASS Standard Capability, 920NTNTEK00000 (typical model) Able to work with the Lenel System
25	ELECTRIC STRIKES: RIM EXIT DEVICES	VON DUPRIN
26	ELECTRIC CYLINDRICAL LOCKS	Schlage "ND" EL/EU
27	ELECTRIC STRIKES : MORTISE LOCKS	Schlage L9000 EL/EU Series, 03N
28	ANTI VANDAL PULL	Ives VR 900
29	ARMOR COLLAR/CYLINDER GUARD	KEEDEX K-24
30	ASTRAGAL	Ives LG
31	AUTO DOOR CLOSER	Stanley

STANDARD		CAMPUS ALTERNATIVES
32	AUTO FLUSH BOLT	Ives FB50, FB60
33	DOOR STOPS	Ives WS401, Ives FB436/438 for Interior; Ives FB 18S/L for Exterior
34		Glynn-Johnson 90 series and 100 series for Overhead
35	ELECTRIC LOCKSET	Schlage
36	KICK PLATE	Ives 8400 series, 12" H X 2' less than door width
37	MULLION SEAL	NGP, Zero, Reese. Use intumescent at "S" labeled wood door
38	POWER SUPPLY	VON DUPRIN PS873-2
39	POWER TRANSER	VON DUPRIN EPT10
40	PUSH/PULLS	VON DUPRIN
41	REMOVABLE MULLION	VON DUPRIN KR4954 X MT54
42	SURFACE CLOSER	LCN P4041-H-EDA w/ HOLD OPEN
43	THRESHOLD	PEMKO
44	WALL ACTUATOR	LCN 8310-853TWP
45	WALL BUMPER	TRIMCO 1270CVPV
46	WEATHERSTRIP	PEMKO 2891S HEAD & JAMBS, ZERO, MCKINNEY
47	WIRELESS RECEIVER	LCN 8310-865
48	DOORS	
49	WOOD DOOR	HALEY BROTHERS, MARSHFIELD DOOR, EGGERS
50	SLIDING METAL FIRE DOOR	SMOKE GUARD
51	AUTOMATIC SLIDING ALUMINUM FRAMED GLASS DOORS	STANLEY
52	ACCESS DOORS	KARP ASSOCIATES INC. , BAUCO , JL INDUSTRIES
53	EXTERIOR CEILING DOOR	KARP ASSOCIATES INC. COOKSON COMPANY
54	FIRE RATED AUTOMATIC ROOLING SERVICE DOORS	KARP ASSOCIATES INC., COOKSON COMPANY
55	INSULATED, ELECTRIC OPERATION, ROOLING SERVICE DOOR	OVERHEAD DOOR CORPORATION
56	OVERHEAD COILING GRILLES	OVERHEAD DOOR, COOKSON, PACIFIC ROLLING DOORS
57	FOLDING DOORS	WON-DOOR
58	ALUMINUM-FRAMED ENTRANCES & STORE FRONT	UNITED STATES ALUMINIUM, KAWNEER, CONTINENTAL
59	GLASS ENTRANCES & STOREFRONT	BRITE VUE BY OLDCASTLE , CONTINENTAL
60	RESTROOM ENTRY DOORS	
61	HOLLOW METAL DOORS, MINIMUM REQUIREMENTS	SDI-100 GRADE II MODEL 3, 1 3/4 INCHES THICK.
62		SDI LEVEL III CURRIES - POLYSTYRENE 707 CORE
63	HOLLOW METAL FRAMES, MINIMUM REQUIREMENTS	14 GUAGE COLD ROLLED STEEL
64	MARBLE THRESHOLDS AT TOILET ROOM ENTRANCES	GROUP "A" MARBLE AS CLASSIFIED BY THE MARBLE INSTITUTE OF AMERICA
65	METAL DOOR LOUVERS (AT RATED OPENINGS)	ANEMOSTAT FLDL-UL-SG2 LOUVER
66	METAL DOOR LOUVERS (AT NON-RATED OPENINGS)	ANEMOSTAT PLSL LOUVER
67	WINDOWS	
68	ALUMINUM WINDOWS	ANDERSEN, WAUSAU, MODU-LINE 2250 SIGNATURE SERIES, PELLA
69	WINDOW COVERING	LEVELOR RIVERA

	STANDARD	CAMPUS ALTERNATIVES
70	DECORATIVE FILMS	3M
71	DIV. 09: FINISHES	
72	FLOOR/ WALL FINISHES	
73	CARPET	Tandus Or EQUAL
74	RESILIENT FLOORING	Forbo, Armstrong, Mannington
75	CARPET MODULES	Tandus 36X36 (District contract in effect) mold resistant
76	RESILIENT TILES/SHEET FLOORING	Forbo, Armstrong, Mannington
77	HARD SURFACE (GYMNASIUM)	MONDO
78	WALL BASE - RUBBER	Johnsonite, Armstrong, Mannington
79	RAISED FLOORING SYSTEMS	Tate
80	PORCELAIN TILE	DALTILE DIAMANTE 12"X12" COLOR: TBD
81	WALL COVERINGS	Dunn Edwards, Vista Paint, Benjamin Moore
82	PAINT	VISTA PAINT
83	Navajo White formula should be Vista formula. Swiss coffee eggshell preferred on all common walls for ease of maintenance. Use stock colors if possible on select areas for ease of maintenance. SCHOOL COLORS: Brilliant Blue, Molasses	Dunn Edwards
84		Frazee
85	HIGH PERFORMANCE COATINGS	Vista, Dunn Edwards, Frazee, Master Coating Technologies - Scuffmaster
86	EPOXY FLOORING-(EXTERIOR)	Dex Coat
87	FLOOR MATS/WALK-OFF MATS	TANDUS
88	GRAFFITI RESISTANT COATINGS	CTF (Cal Trans Formula - two component)
89	GRAFFITI RESISTANT FILM	http://www.graffiti-shield.com/
90	SEAMLESS FLOORING	Johnsonite, Armstrong, Mannington
91	VCT	AZROCK, JOHNSONITE, ARMSTRONG
92	RESINOUS FLOORING-EPOXY	Dex Coat (Barn Red on existing)
93	FIBERGLASS REINFORCED PLASTIC PANELS	MARLITE , CRANE , GLASTEEL
94	GENERAL CERAMIC TILE	DAL TILES
95	MOTAR/GROUT	MAPEI
96	CEMENTITIOUS GROUT (FLOOR TILE)	LATICRETE® PERMACOLOR™, OR APPROVED EQUAL.
97	EPOXY GROUT (WALL TILE)	LATICRETE® SPECTRALLOCK® PRO PREMIUM GROUT, OR APPROVED EQUAL.
98	SEALER	WALL TILE AND GROUT SHALL BE SEALED WITH A GRAFFITI RESISTANT, WATERBORNE URETHANE-SILICONE POLYMER COATING, NON-TOXIC, LOW VOC, NON-SACRIFICIAL, MOLD AND MILDEW RESISTANT, TRANSPARENT, UV RESISTANT, AND ABRASION RESISTANT. "SANIGLAZE PROCESS" SYSTEM (WWW.SANIGLAZE.COM)
99	WALL TILE	FIELD TILE AND BASE DALTILE SEMI-GLOSS 4" X 4" , ACCENT TILE, DALTILE SEMI-GLOSS 4"X4"
100	WATERPROOF MEMBRANE	LATICRETE® HYDRO BARRIER™, OR APPROVED EQUAL.
101	EXTERIOR PLASTER	LA HABRA, HIGHLAND
102	PHOTOVOLTAICS	UNISOLAR, ATLANTIS ENERGY, SHARP SOLAR
103	CEILING SYSTEMS	
104	ACOUSTICAL TILE	ARMSTRONG 1729 FIND FISSURED (RH90, 24" X 48" X5/8"
105	GRID SYSTEM	Armstrong
106	ACOUSTICAL SUSPENSION SYSTEM	ARMSTRONG

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107	SOUND-ABSORBING UNITS	AcoustiColor
108	INTERIOR SUSPENDED LIGHTS	PRUDENTIAL , LITHONIA
109	WALL & CEILING ACCESS DOORS	SQUARE FRAMES WITH HINGED LOCKED DOOR
110	DIV. 10: SPECIALTIES	
111	SOAP DISPENSERS	BOBRICK STAINLESS STEEL, BRADLEY
112	PAPER TOWEL DISPENSERS	BOBRICK MODEL B-3706C STAINLESS STEEL SEMI-RECESSED NAPKIN/TAMPON DISPENSER, OR APPROVED EQUAL RECESSED SANITARY NAPKIN DISPOSAL
113	Toilet paper dispensers	NEATSEAT® TOILET SEAT COVER DISPENSER, STAINLESS STEEL, MODEL #FH33SS NEATSEAT;
114		BOBRICK MODEL B-2892 SURFACE-MOUNTED TWIN JUMBO-ROLL TOILET TISSUE DISPENSER
115	HAND DRYER	Xlerator (ADA compliant) , Dyson AirBlade, BOBRICK Trim Line-Surface-Mounted ADA dryer B-7120 (22-ga mild steel zinc plated w/ high-gloss white exosy paint finish)
116	BATHROOM PARTITIONS	BOBRICK SIERRASERIES® WATER-AND FIRE-RESISTANT SOLID COLOR REINFORCED COMPOSITE TOILET PARTITIONS AND URINAL SCREENS, TRESPA, STAINLESS STEEL
117	RESTROOM ACCESSORIES	BOBRICK, Xlerator, Bradley
118	LOCKERS	Republic, Penco, Lyon
119	STORAGE/TRANSFER	Tyga-Box System or EQUAL
120	MARKER BOARD	ABC SCHOOL SUPPLIES - Magnetic Porcelain
121	TACKBOARDS	ABC SCHOOL SUPPLIES
122	OPERABLE PARTITIONS	WON DOOR
123	WALL AND CORNER GUARDS	CONSTRUCTION SPECIALTIES, INC., BALCO, PAWLING
124	DIAPER-CHANGING STATION	KOALA KARE PRODUCTS MODEL KB-110-SSWM HORIZONTAL WALL MOUNTED STAINLESS STEEL FINISH BABY CHANGING STATION,
125	FOLDING SHOWER SEATS	BOBRICK MODEL B-5181 REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT, OR APPROVED EQUAL.
126	GRAB BARS	BOBRICK 1½" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAP FLANGE, SATIN FINISH, B-6806 SERIES, OR APPROVED EQUAL. (DO NOT USE L-SHAPED TWO-WALL GRAB BARS.)
127	KEYING FOR TOILET ACCESSORIES	BOBRICK KEY #2055
128	LAVATORY SINK (COUNTERTOP):	AMERICAN STANDARD MODEL 0476.028 AQUALYN™ VITREOUS CHINA COUNTERTOP SINK,
129	LAVATORY SINK (WALL-HUNG, WHERE REPLACING EXISTING WALL-HUNG LAVATORY)	4" CENTERSET WITH CONCEALED ARM CARRIERS: KOHLER KINGSTON K- 2005-0, AMERICAN STANDARD LUCERNE MODEL 0355.012
130	MIRRORS (FRAMED)	SENTRY MIRROR 18"X30"
131	SHOWER CURTAIN HOOKS	BOBRICK MODEL 204-1 STAINLESS STEEL
132	SHOWER CURTAIN RODS	BOBRICK MODEL B-6107 HEAVY-DUTY
133	SHOWER CURTAINS	BOBRICK MODEL 204-3 VINYL SHOWER CURTAIN,
134	SHOWER SOAP DISH	BOBRICK MODEL B-4390 RECESSED HEAVY-DUTY SOAP DISH WITH BAR,
135	TOILET SEATS	BEMIS. SEATS SHALL BE HEAVY WEIGHT AND INJECTION-MOLDED OF SOLID PLASTIC. SEATS SHALL BE OPEN FRONT LESS COVER FOR ELONGATED BOWL AND FEATURE LARGE MOLDED-IN BUMPERS.

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136	UNDERSINK PIPING COVERS AT ACCESSIBLE LAVATORIES AND SINKS WITH HOT WATER, ON HOT WATER SUPPLY PIPING AND DRAINS, COMPLYING WITH ADA AND CBC ACCESSIBILITY REGULATIONS.	TRUEBRO® LAV GUARD®2,
137	UTILITY SHELF	BOBRICK MODEL B-298 STAINLESS STEEL SHELF, 24" MINIMUM LENGTH X 8" DEPTH,
138	WALL HOOKS (AT TOILET STALLS, AND BELOW OR ADJACENT TO UTILITY SHELVES)	BOBRICK MODEL B-671 SURFACE-MOUNTED SINGLE ROBE HOOK, BRIGHT POLISHED STAINLESS STEEL,
139	WASTE RECEPTACLES (AT STAFF/FACULTY RESTROOMS ONLY)	BOBRICK MODE B-3644 RECESSED WASTE RECEPTACLE,-
140	EMERGENCY RESPONDER LOCK BOX	KNOX BOX 3200 SERIES
141	EVACUATION CHAIR	EVACU- TRAC BY GARAVENTA LIFT
142	REMOVABLE STEEL BOLLARD	CALPIPE SECURITY BOLLARDS, 1-800-BOLLARDS
143	FLEXIBLE BOLLARDS	RELIANCE FOUNDRY, BC CANADA
144	FIRE ALARM SYSTEM	EST3 BY EDWARDS
145	FIRE EXTINGUISHER CABINET W/ LOCK	Potter Roemr
146	FLAGPOLES	MORGAN-FRANCIS CO. INC.
147	DIRECTORIES & BULLETIN BOARDS	GREENSTEEL INC.
148	DIV. 11: EQUIPMENT	
149	FOOD SERVICE EQUIPMENT	Wolf Equipment, Hobart, Dwyer Products
150	KITCHEN, APPLIANCES	GE, Samsung, Frigidaire, KitchenAid
151	LOADING DOCK LEVELERS	MECHANICAL TYPE ONLY
152	PROJECTION SCREENS	DA LITE
153	PROJECTOR MOUNTS	CHIEF MAUNFACTURING
154	LAB FUME HOOD	HAMILTON
155	DIV. 12: FURNISHINGS	
156	WINDOW SHADES	MECHO-SHADE CORP
157	METAL LAB CASEWORK	KEWAUNEE SCIENTIFIC
158	LAMINATED CASEWORK	KEWAUNEE SCIENTIFIC
159	WOOD LAB CASEWORK	KEWAUNEE SCIENTIFIC
160	BLEACHERS	
161	INTERIOR, GYMNASIUM	Irwin Telescopic
162	Exterior, Gym	Sturdisteel, Southern Bleacher Company
163	WINDOW COVERING	
164	SOLAR SHADE	Mecho Shade, Levolor, SunTex by Phifer
165	BLINDS - VERTICAL/ HORIZONTAL	DO NOT USE
166	BIKE PARKING RACK	PARK A BIKE , PEAK RACKS
167	MODULAR STRUCTURES	Williams Scotsman, Aurora
168	DIV. 14: CONVEYING EQUIPMENT	
169	STANDARD ELEVATORS	Otis, Mitsubishi
170	CONTROLLER	MOTION CONTROLS.....CONTROLLER CANNOT BE PROPRIETARY
171	ELEVATOR DOORS Graffiti proof interior	GAL DOOR EQUIPMENT
172	ELEVATOR CAB LIGHT FIXTURE	ERIM FIXTURES
173	WHEELCHAIR LIFTS	Garventa
174	EXIT STAIR EVACUATION CHAIRS	Garaventa Evacuation chairs , EVACU-TRAC CD7 or better
175	HYDRAULIC ELEVATORS	Otis

	STANDARD	CAMPUS ALTERNATIVES
176	DUMBWAITER	MATOT, TL SHIELD
177	DIV. 21: FIRE SUPPRESSION	
178	HYDRANTS	James Jones, Clow Valve
179	DIV. 22: PLUMBING	
180	PIPE	
181	DOMESTIC, /POTABLE	C900 Blue, Copper K, #80 PVC
182	UNDERGROUND WATER IRRIGATION PIPING	Schedule 40 and schedule 80 PVC 1/2" to 3" CVPC clorinated polyvinyl
183	UNDERGROUND SANITARY PIPING	Cast iron, CISPI 301
184	ABOVE GROUND SANITARY PIPING	Cast Iron Tyler Pipe /DWV Copper
185	PIPE TUBING AND FITTINGS	C-900 Mega Lug FTGs Approved CI Conn Flange
186	STEEL PIPE FUEL GAS/NATURAL GAS	Black Schedule 40 indor only with similar fittings
187	STEEL PIPE WATER OR AIR	Galvanized Domestic only - No Substitute, or black schedule 40 for air
188	BRASS PIPE	Red Brass, Schedule 40 lead free
189	COPPER TUBING	Type "K" below grade or Type "L" above grades only
190		No "M" except for condensate lines
191	PLUMBING FIXTURES	
192	TOILET FIXTURES (Low Flow, Viterous China)	American Standard, Kohler, Sloan
193	SINKS	American Standard, Kohler, Falcon
194	Stop Fittings	Chicago Faucets model 1013-ABLP
195	KITCHEN SINKS	Elkay, Kohler
196	SERIVCE SINKS	American Standard, Zurn, Kohler, Chicago
197	URINALS (Low Flow)	American Standard, Sloan, Kohler
198	URINALS (Waterless)	NONE
199	FAUCETS	Chicago-automatic or manual, American Standard, Kohler
200	FLUSH VALVES - TOILETS, URINALS	Sloan only - manual or sensor - no zurn
201	DOMESTIC WATER HEATER	Bradford White, A.O. Smith,
202	CIRCULATING PUMP	Grundfos with equal times, Bell and Gossett
203	PLUMBING VALVES AND ACCESSORIES	
204	GENERAL	Nibco, domestic product only
205	EXPANSION TANKS	AMTROL
206	BACKFLOW PREVENTERS	Febco, Watts, Wilkins
207	CLEAN OUTS	J.R. Smith, Zurn, NIBCO
208	FLOOR DRAINS	J.R. Smith, Zurn, MIFAB
209	TRAP PRIMERS	MIFAB
210	ROOF DRAINS	J.R. Smith, Zurn, Josam
211	BALL VALVES	NIBCO (Brass, Full Port) Accorn
212	GATE VALVES	NIBCO (Union Bonnet, Raised Stem) Accorn
213	GLOBE VALVES	NIBCO (Brass)
214	CHECK VALVES	NIBCO (Brass)
215	VALVES(WATER, BELOW GROUND)	Stockham (Cast Iron Flanged AWWA with operating unit), Clow
216	Backwater	Zurn, J.R. Smith
217	Drain Pumps	Swaby, Weil Pump, PACO, Peerless
218	Drainage	J.R. Smith, Zurn
219	CHECK VALVES - 4" ϕ or larger	Combraco, Zurn, Milwaukee

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220	Drainage System	Zurn, J.R. Smith
221	Electric Self regulating T&M Cable	Raycem Corp
222	Trench Funnel Drains	Stockham Valves & Fittings Co.
223	Hose Bibb Box	Stainless steel recessed w/ loose key handle ACORN 8141/8102
224	Piston Water Hammer	MIFAB MWA Series
225	Shower heads & Faucets	Symmons, Delta
226	Boiler	Lockinvar, Raypack
227	EMERGENCY EYEWASH & SHOWER	
228	EMERGENCY EYEWASH & SHOWERS	Haws, Bradley, Encon
229	WATER FOUNTAINS	
230	DRINKING	Haws, HalsyTaylor
231	DIV. 23: HEATING, VENTILLATION & AIR CONDITIONING (HVAC)	
232	A/C UNITS, ROOF MOUNTED	Trane, Carrier, York
233	A/C UNITS WALL MOUNTED	Bard
234	AIR HANDLERS – CUSTOM	Trane, Mc Quay, Carrier
235	AIR HANDLERS	Trane, Mc Quay, Carrier
236	HVAC HYDRONIC CONTROL VALVE	Belimo
237	HVAC HEATING & COOLING CONTROL VALVE	Belimo PICCV two way with reversing switch
238	HVAC HYDRONIC PIPE FLANGE ADAPTER CONNECTIONS	OMNI
239	MOTORS	Baldor, GE, AO Smith
240	PUMPS	Armstrong, Bell & Gossett, TACO
241	COOLING TOWERS	Baltimore Air Coil, Marley
242	OTHER FILTERS	3-M, Florence Filter, Trident Filtering Sys
243	BOILER CONTROLS-HOT WATER	Honeywell, White Roger
244	BOILER CONTROLS-STEAM	Mc Donnell Miller
245	FAN COILS DX	Trane, York, Carrier
246	COMPUTER ROOM AC UNITS	Daikin, Data Air, L.G.
247	CHILLED WATER FAN COILS	Trane, Mc Quay, York
248	AIR COOLED CHILLER	Carrier, Trane, York
249	CENTRIFUGAL WATER-COOLED CHILLER	York, Trane, Carrier
250	SCREW-TYPE AIR COOLED CHILLER	Trane, York, Carrier
251	SCREW-TYPE WATER COOLED CHILLER	Trane, York, Carrier
252	SCROLL-TYPE AIR COOLED CHILLER	Trane, York, Carrier
253	CHILLER-GENERAL	Trane, York, Carrier
254	ABSORBTION CHILLER	Trane, York, Thermax.
255	OTHER ABSORBTION CHILLER	SUN
256	VENTILATORS AND EXHAUST FANS	Greenheck, Broan.
257	FIRE SMOKE DAMPER	Belmo w/ end switch to communicate to EMS
258	VARIABLE FREQUENCY DRIVES	ABB, Graham, Danfoss.
259	HYDRONIC PIPING	Carbon Steel, Sch 80 Insulated PVC Perma Pipe
260		Thermacor, Rovanco
261	AIR CONIDITIONING THERMOSTAT	HONEYWELL
262	THERMOSTAT LOCK BOX	Honeywell, White Roger, Grainger
263	Motor Controls	ABB, G.E.M.C.

	STANDARD	CAMPUS ALTERNATIVES
264	DIV. 25: INTEGRATED AUTOMATION	
265	ENERGY MANAGEMENT SYSTEM	Niagara Network, Trane, Honeywell
266	DIV. 26: ELECTRICAL	
267	ELECTRICAL FIXTURES	
268	INTERIOR LIGHT FIXTURES(LED), Fluoresces No incandesce light fixture	PRUDENTIAL, LITHONIA, LIGHTOLIER, HE WILLIAMS
269		MUST MEET DLC & ENERGY STAR REQUIRMENTS (T-8 TUBES, LED)
270	CONNECT WITH EMERGENCY LIGHTS	ALERTRON TO EMERGENCY GRID
271	EXIT SIGNS	LED, NUK
272	ELECTRONIC WALL CLOCKS	PRIMEX WIRELESS
273	INTERIOR SUSPENDED LIGHTS	PRUDENTIAL, LITHONIA
274	LIGHTING/INDOOR-OUTDOOR	
275	VANDAL PROOF LIGHTING FIXTURES	LED by RUUD LIGHTING/CREE, MATALUX, KIM LIGHTING
276	LANDSCAPING FIXTURES	
277	EXTERIOR LIGHTS-PARKING LOT	KIM LIGHTING LED, HUBBELL MH
278	LIGHT SENSORS	LUTRON, LEVITON, "WATT STOPPER"
279	PARKING LOT	KIM LIGHTING, PRUDENTIAL, GULLWING LED
280	ATHLETIC FIELD	MUSCO, MORRIS, LITHONIA
281	ELECTRICAL EQUIPMENT	
282	MAIN SWITCHBOARD	G.E., SQUARE D, CUTLER-HAMMER
283	MAIN DISTRIBUTION SWITCHBOARDS	G.E., SQUARE D, CUTLER-HAMMER
284	DRY TYPE TRANSFORMERS	MGM, HAMMOMD. GE
285	MAGNETIC MOTOR STARTERS	ALLEN BRADLY, FURNAS, SQUARE D, GE
286	SOFT START MOTOR STARTERS	ALLEN BRADLY, FURNAS, SQUARE D, GE
287	PANELBOARDS	GE, SQUARE D, SIEMENS
288	MCC (MOTOR CONTROL CENTERS)	GE, SQUARE D, SIEMENS
289	DRIVES	ABB, DANFOSS, SQUARE D
290	ELECTRICAL FINISH FACE PLATES	STAINLESS STEEL (LEVITON)
291	ELECTRIC VEHICLES/ CHARGERS	
292	ELECTRICAL VEHICLES AND CHARGERS	TAYLOR DUNN, CLUB CAR, CUSHMAN
293	CHARGER Mfr	GE, LESTER, ABB
294	EMERGENCY POWER SYSTEM-GRID MATRIX	
295	CONNECT WITH SUMP PUMPS	ALERTRON, EDWARDS
296	CONNECT WITH CO2 SENSORS	ALERTRON, EDWARDS
297	CONNECT WITH EMS/CMMMS	ALERTRON, EDWARDS
298	EMERGENCY MANAGEMENT SYSTEM	
299	EMERGENCY MANAGEMENT SYSTEM	HONEYWELL, NIAGRA
300	ENERGY MANAGEMENT SYSTEM	HONEYWELL, NIAGRA
301	FIRE PROTECTION	
302	ELECTRONICS	EST, NOTIFIER
303	LIGHTING SUPPLIES	
304	LIGHT BULBS, FLOURESCENTS T-8's	SYLVANIA, PHILLIPS, GE
305	BALLASTS	ADVANCE, TRIAD, UNIVERSAL
306	EMERGENCY POWER SYSTEMS	
307	GENERATORS	KOHLER, ONAN, GENERAC
308	UPS	APC

	STANDARD	CAMPUS ALTERNATIVES
309	INVERTORS	MYERS POWER, LC&D, DSPM, CRCIAL POWER
310	DIV. 27: COMMUNICATIONS	
311	Data Center Server Enclosures	EATON, APC, NTC
312	IDF Data Enclosures	EATON, APC, NTC
313	Network Cabling Systems	PANDUIT CAT 6 & 6A, SIEMON 10G
314	27 05 00 COMMON RESULTS FOR COMM	
315	Structured Cabling System Warranty	MINIMUM 25 YEAR WARRANTY
316	27 05 26 GROUNDING & BONDING	
317	Bus Bar	THOMAS & BETTS
318	27 05 28 PATHWAYS FOR COMM SYSTEMS	
319	EMT Conduits & Couplings & Connectors	STEEL CITY, CROUSE-HINDS, APPLETON
320	Conduit Supports	UNISTRUT, CADDY, STEEL CITY
321	Hangers & Cable Ties	CHATSWORTH PRODUCTS, COOPER B-LINE , CADDY
322	Metal Outlet Boxes - Double Gang, Extra Deep	STEEL CITY, RACO, APPLETON
323	Pull Boxes and Cabinets	HOFFMAN ENCLOSURES, WIRE GUARD, CHATSWORTH
324	Cable Tray	PANDUIT, CHATSWORTH, COOPER B-LINE
325	Air Blown Fiber System (ABF)	Sumitomo Electric
326	IDF Data Enclosures	EATON, SIEMON, APC
327	27 05 43 UG DUCTS & RACEWAY FOR COMM	
328	Manholes	JENSEN, BROOKS, UTILITY VAULT (OLDCASTLE)
329	Pull boxes	JENSEN, BROOKS, UTILITY VAULT (OLDCASTLE)
330	MH/PB Hardware	INWESCO PRODUCTS
331	Conduits (Schedule 40 or Type C)	PANDUIT, CARLON, WIREMOLD
332	Detectable Warning Tape	CARLTON
333	Pull, Rope 1700 lb tensile strength	CARLON
334	Bonding ribbon (In vaults)	INWESCO CAT 12A55
335	Bonding ribbon clamps (In vaults)	INWESCO CAT 12A56
336	Fargo Clamp	INWESCO CAT 12A57
337	Ground Rod	INWESCO CAT 12A60
338	Ground Inserts (Cast Bronze)	INWESCO CAT 12H69
339	Manhole Lids	ALHAMBRA FOUNDRY, OPW MANHOLE
340		PREFERRED ROUND COVERS
341	Manhole Ladders	ALHAMBRA FOUNDRY - MODEL A-3382 W/ A3383 SUPPORT BAR
342	27 11 00 COMM EQUIP. ROOM FITTINGS	
343	Ladder Racks	CHATSWORTH PRODUCTS, HOMACO, COPPER B LINE
344	Equipment Racks	EATON, PANDUIT, SIEMON
345	Wall-Mounted Cabinets	COOPER B-LINE DAMAC, MIDDLE ATLANTIC, CHATSWORTH
346	Horizontal Managers	SIEMON WM - 145-5
347	Fiber Optic Terminals (FOT's)-Housing	SIEMON RIC-3-72-01, PANDUIT, SYSTIMAX
348	Fiber Terminal Adapters and Connectors	SIEMON RIC-FLC6-01
349	Plywood	NATIONAL PLYWOOD INDUSTRIES, 1" MINIMUM
350	Fire Retardant Paint	FLAMORT CO., INC.
351	Patch panels	SIEMON ZXAS-PNL (F)-V48K, PANDUIT, SYSTIMAX
352	Cable Tags & Splice Labels	PANDUIT, 3M

STANDARD		CAMPUS ALTERNATIVES
353	Protector Panels	CIRCA, EMERSON
354	27 13 00 COMM BACKBONE CABLING	
355	Fiber Tube Cable (OSP and Riser)	PANDUIT, SUMITOMO ELECTRIC FUTUREFLEX
356	Fiber Cable - OSP and Riser	PANDUIT, SUMITOMO ELECTRIC FUTUREFLEX
357	Copper OSP Cable	PANDUIT, COMMSCOPE
358	Splice Cases - Outside	PANDUIT, 3M, COMING
359	Splice Cases - Inside	PANDUIT, 3M, COMING
360	Splice Bay & Relay Labels	3M
361	ABF Tube Clips	SUMITOMO ELECTRIC FUTUREFLEX
362	27 15 00 COMM HORIZONTAL CABLING	
363	Station Cabling	PANDUIT, SYSTIMAX, SIEMON
364	Jacks	PANDUIT, SYSTIMAX, SIEMON
365	Faceplates	PANDUIT, SYSTIMAX, SIEMON
366	Emergency Phone	TALK-A-PHONE ETP-WM & ETP-MT/R BASES W/ VOIP 500D
367	Elevator Phone	TALK-A-PHONE ANALOG
368	27 40 00 AUDIO VISUAL	
369	CONTROL SYSTEM	UTELOGY
370	PROJECTOR	EPSON, PANASONIC
371	PROJECT SCREEN	DA-LITE, EPSON, ELITE
372	LECTERN	SPECTRUM FREEDOM XRS, FORBES-AV
373	DOCUMENT CAMERA	ALMO
374	ASSISTIVE LISTENING DEVICE	LISTEN TECHNOLOGIES
375	MICROPHONE	SHURE
376	NETWORK SWITCH	HP SWITCH WITH POE+
377		UPGRADABLE TO LATEST TECHNICAL ADVANCES
378	ANNOTATION DEVICE	SMART TECHNOLOGIES
379	INTERACTIVE DISPLAY	EPSON, SMART TECHNOLOGIES
380	CLASSROOM LIGHTING CONTROL	CRESTON, LUTRON
381	SPEAKERS	JBL, QSC
382	PC COMPUTERS	HP ELITE SERIES
383	LECTURE CAPTURE	PANOPTP, ENSEMBLE
384	NETWORK DATA SWITCHES	HP SWITCH WITH POE+, CISCO (W/POE)
385	UPS	EATON, MGE
386	DIV. 28: ELECTRONIC SAFETY & SECURITY	
387	28 10 00 ELECTRONIC ACCESS CONTROL	
388	Card Readers	HID ICLASS SE contactless smart card (R40 type) - no sub. Requires ICLASS Standard Compatibility, 920NTNTEK00000 (Typical model)
389	Software	Lenel OnGuard
390	Controllers	Lenel OnGuard. LNL 3300
391	Data Center Air Conditioning	DATA AIRE, APC
392	Classroom AV	UTELOGY, EXTRON
393	Data Center Power Protection	LIEBERT
394	28 20 00 ELECTRONIC SURVEILLANCE	
395	CCTV Cameras	AXIS, SONY, PANASONIC
396	System Server	Lenel Enterprise NVR

	STANDARD	CAMPUS ALTERNATIVES
397	Recording System	SPECTRA LOGIC
398	Wall Mounted Field Devices	TALK A PHONE ETP-WM
399	Freestanding Field Devices	TALK A PHONE ETP-MT/R OP 4 OR 5
400	Interior Building Signs	See existing campus signage package
401	Exterior and Architectural Signs	See existing campus signage package
402	Pedestrian and MapSigns/Display	See existing campus signage package
403	Roadway, Vehicular and Parking Signage	See existing campus signage package
404	Room Signs	See existing campus signage package
405	WIRELESS ACCESS POINTS	
406	Indoor Access Points	ARUBA, HP LAGACY, Cisco Series- latest technologies
407	Outdoor Access Points	ARUBA, HP, Cisco Series- latest technologies W/NEMA 4 ENCLOSURE
408	NETWORK SWITCHES	
409	Data Switches	HP, Cisco Catalyst IP Based-POE+
410	FIRE ALARM SYSTEM	
411	GENERAL	Edwards (EST 3) with Mass Notification
412	FIRE ALARM PULL STATION	EST CAT 45 KEY
413	SPEAKER/STROLL AMBER ALERT	EDWARDS W/ MASS NOTIFICATION
414	DIV. 32: EXTERIOR IMPROVEMENTS	
415	ANTI GRAFFITI PRODUCTS	GRAFFITI SHIELDS, 3M FILMS
416	IRRIGATION SYSTEMS	
417	IRRIGATION CONTROLLER	HUNTER, RAINBIRD, CHAMPION
418	IRRIGATION - Sprinkler Heads	HUNTER 540-4" POP-UP, RAINBIRD 1800
419	IRRIGATION - Heads	HUNTER I-40 HEADS, RAINBIRD FALCON
420	IRRIGATION - Heads	HUNTER I-20 HEADS, RAINBIRD 5000
421	IRRIGATION - Control Valves	RAINBIRD ELECTRIC REMOTE CONTROL VALVES, SUPERIOR 950
422	IRRIGATION - Pipes	SCHEDULE 80 PVC PIPE
423	IRRIGATION - Fittings	SCHEDULE 80 SOCKED WELD FITTINGS
424	IRRIGATION SYSTEMS	HUNTER, RAINBIRD
425	PAVEMENT MARKINGS	VISTA
426	CONTROLLER REMOTE SITE MANAGEMENT	HUNTER
427	CONTROLLER HAND-HELD REMOTE CONTROL	HUNTER
428	CONTROLLER ENCLOSURE	HUNTER
429	RAIN SENSOR	HUNTER
430	CONTROL WIRE - COMMON	Paige P7001D 12 AWG White
431	CONTROL WIRE - HOT	Paige P7001D 14 AWG Colored
432	WATERPROOF WIRE CONNECTOR	Spears DS-500 Dri-Splice
433	GROUNDING ROD	Paige 182007 with Paige 1820037P Connection
434	DIELECTRIC CONNECTION	Approved by Electrical Engineer
435	BOOSTER PUMP	Barrett Irriboost with Variable Speed Drive and SS Enclosure
436	BASKET STRAINER	Yardney SBx-T Series
437	BASKET STRAINER ENCLOSURE	V.I.T. Strong Box SBBC-xxSS with QP Option
438	PRESSURE REGULATOR	Wilkins 500 Series
439	MASTER VALVE	Toro 220 Brass or Toro P-220S Plastic
440		Rainbird P220 Brass series with Pressure regulator

	STANDARD	CAMPUS ALTERNATIVES
441	FLOW SENSOR	HUNTER, RAINBIRD
442	FERTILIZER INJECTOR	EZ-FLO EZ Series
443	GATE VALVE (2" and SMALLER)	Nibco T-113 Series
444	GATE VALVE (2 1/2" and LARGER)	Nibco F-619-SON Series
445	BALL VALVE (2" and SMALLER)	Nibco T-585-70 Series
446	AIR RELEASE VALVE	Cla-Val #33-A Series
447	QUICK COUPLING VALVE	Rain Bird #44-NP or TORO #44 NP Series
448	ELECTRIC CONTROL VALVE	HUNTER, Rainbird P-220 brass series
449	DRIP ZONE VALVE KIT	HUNTER
450	VALVE BOX	NDS Pro Plus Series (green plastic with purple bolt-down cover)
451	MAINLINE PIPING (6" and LARGER)	Pacific Plastics Sch 80 CL200 PVC Gasketed - Purple
452	MAINLINE PIPING (2" - 4")	Pacific Plastics Sch 80 CL315 Solvent-Weld PVC - Purple
453	MAINLINE PIPING (1 1/2" and SMALLER)	Pacific Plastics or equal SCH 40 Solvent-Weld PVC – Purple or Sch 80 PVC
454	LATERL LINE PIPING	Pacific Plastics or equal SCH 40 Solvent-Weld PVC – Purple, or SCH 80 PVC
455	PIPE / WIRE SLEEVING	Pacific Plastics or equal SCH 40 Solvent-Weld PVC
456	PIPE FITTINGS (MAINLINE)	Spears or equal SCH 80 PVC
457	PIPE FITTINGS (LATERAL LINES)	Spears or equal SCH 40 PVC
458	ARTIFICIAL TURF COOLING SYSTEM HEADS	HUNTER
459	LARGE TURF ROTOR HEADS	HUNTER, RAINBIRD
460	MEDIUM ROTOR HEADS	HUNTER, RAINBIRD
461	SMALL ROTOR HEADS	HUNTER, RAINBIRD
462	FIXED SPRAY HEADS	HUNTER, RAINBIRD
463	FLOOD BUBBLER	HUNTER, RAINBIRD
464	TREE ROOT WATERING SYSTEM	HUNTER, Rain Bird RWS Series
465	DRIP LINE SYSTEMS	HUNTER, RAINBIRD
466	DRIP SYSTEM FITTINGS / ACCESSORIES	HUNTER, RAINBIRD
467	BIRD DETERRANTS	Bird B Gone
468	GROUND PREPARATION FOR LANDSCAPING	NO CONCRETE OR ASPAULT AND NO AGGREATE OVER ¼" , NEW TOP SOIL REQUIRED TOP 6"