

**LAMC 6.2.2020 revision**

**CAMPUS STANDARDS- MATRIX**

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

PLEASE READ & FOLLOW THE DIRECTIONS PROVIDED BELOW

"The Campus Standards Matrix is to be used as a guide . LAMC has a comprehensive design standards which governs the design of any of our proects. 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 LAMC 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
<b>1 DIV. 06: WOOD, PLASTICS AND COMPOSITES</b>		
<b>2 ARCHITECTURAL CABINETS</b>		
3	PLASTIC LAMINATE	WILSONART, OR EQUAL
4	CABINET LOCKS	BEST 5L SERIES DEADBOLTS AND STRIKES
5	CABINET PULLS	TRIMCO 562-4
6	CABINET SHELF STANDARDS	KNAPE & VOGT (KV) 255
<b>7 DIV. 07: THERMAL &amp; MOISTURE PROTECTION</b>		
<b>8 ROOFING</b>		
9	GENERAL	SARNAFIL ENERGYSMART ROOF SYSTEM G410 - 80 MIL or EQUAL
<b>10 FIREPROOFING</b>		
11	GENERAL	CAFCO
<b>12 WATERPROOFING</b>		
13	BITUMINOUS DAMPPROOFING	Subject to LAMC approval
14	SELF-ADHERING SHEET WATERPROOFING	Subject to LAMC approval
<b>15 DIV. 08: OPENINGS</b>		
<b>16 HARDWARE</b>		
17	KEYING OF CYLINDER	Best 1AK1B21NiAg Key Blanks; BEST I/C CORE CYLINDER, 7-PIN.
18	INTER CHANGEABLE CYLINDERS	Best 1C7
19	MORTISE	BEST 1E74 (Sole-Source) OR BEST 1E74G4
20	RIM	BEST 1E72
21	LOCKSET	Best 45H Series 3H -HIGH SECUIRTY PRIVATCY
22	CABINET LOCKSETS	Haworth
23	HINGES	STAINLESS STEEL
24	EXIT DEVICES	VON DUPRIN-98 SERIES, Cylinder Dogging,, XP @ EXTERIOR
25	KEY REMOVABLE MULLION POST for double door exit device opening	(FIRE RATED) VON DUPRIN KR9954
26	CLOSER	Subject to LAMC approval
27	ADA COMPLIANT PEDESTRIAN SWING DOOR OPERATOR	BESAM

STANDARD		CAMPUS ALTERNATIVES
28	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
29	ELECTRIC STRIKES: RIM EXIT DEVICES	VON DUPRIN
30	ELECTRIC CYLINDRICAL LOCKS	HES 8300 ,field modification, cutting Fire Door frame SHALL NOT BE PERMITTED
31	ELECTRIC STRIKES : MORTISE LOCKS	HES 1006, field modification, cutting of Fire Door Frame SHALL NOT be permitted.
32	KEY SYSTEMS FIRE ALARM PANEL KEYING	CAT 45
33	ELECTRICAL CABINET KEYING	LL803
34	ANTI VANDAL PULL	TRIMCO
35	ARMOR COLLAR/CYLINDER GUARD	KEEDEX K-24
36	ASTRAGAL	BY DOOR MANUFACTURER
37	AUTO DOOR OPERATOR	BESAM
38	AUTO DOOR CLOSER	BESAM
39	AUTO FLUSH BOLT	TRIMCO
40	BOLLARD ACTUATOR	LCN 8310-3853TWB
41	BOLLARD POST	LCN 8310-866
42	COORDINATORS	TRIMCO
43	DOOR BOTTOM	PEMKO
44	DOOR HOLDER	LCN PAH-60
45	DOOR STOPS	TRIMCO
46	DUST PROOF STRIKE	TRIMCO 3911
47	ELECTRIC LOCKSET	BEST 45HW7DEU X 3H X L/OST
48	KICK PLATE	TRIMCO KO050 - 10 X 2 LDW B4E
49	LATCHSET	BEST 45H0N X 3H
50	MOP PLATE	TRIMCO KM050 - 6 X 1 LDW B4E
51	OVERHEAD COILING DOOR KEY SWITCH CONTROL	VEE INDUSTRIES, INC. 1 KX SURFACE MOUNT KEY SWITCH
52	OVERHEAD STOPS	GLYNN-JOHNSON
53	POWER SUPPLY	VON DUPRIN PS914 X 900-2RS
54	POWER TRANSER	VON DUPRIN EPT-2
55	PUSH/PULLS	TRIMCO
56	REMOVABLE MULLION	VON DUPRIN KR4954 X MT54
57	SILENCERS	TRIMCO 1229A
58	SMOKE SEALS	PEMKO S44 HEAD & JAMBS
59	SURFACE CLOSER	LCN P4041-SCNS
60	THRESHOLD	PEMKO
61	WALL ACTUATOR	LCN 8310-853TWP
62	WALL BUMPER	TRIMCO 1270CVPV
63	WEATHERSTRIP	PEMKO 2891S HEAD & JAMBS
64	WIRELESS RECEIVER	LCN 8310-865
65	<b>DOORS</b>	
66	WOOD DOOR	Graham Wood Doors

STANDARD		CAMPUS ALTERNATIVES
67	SLIDING METAL FIRE DOOR	SMOKE GUARD
68	AUTOMATIC SLIDING ALUMINUM FRAMED GLASS DOORS	STANLEY
69	ACCESS DOORS	Subject to LAMC approval
70	EXTERIOR CEILING DOOR	Subject to LAMC approval
71	FIRE RATED AUTOMATIC ROOLING SERVICE DOORS	Subject to LAMC approval
72	INSULATED, ELECTRIC OPERATION, ROOLING SERVICE DOOR	Subject to LAMC approval
73	OVERHEAD COILING GRILLES	Subject to LAMC approval
74	FOLDING DOORS	WON-DOOR
75	ALUMINUM-FRAMED ENTRANCES & STORE FRONT	KAWNEER COMPANY
76	GLASS ENTRANCES & STOREFRONT	VISTAWALL
<b>77 RESTROOM ENTRY DOORS</b>		
78	HOLLOW METAL DOORS, MINIMUM REQUIREMENTS	Subject to LAMC approval
79	HOLLOW METAL FRAMES, MINIMUM REQUIREMENTS	16 GAUGE THICK MATERIAL, TO SUIT DOOR.
80	MARBLE THRESHOLDS AT TOILET ROOM ENTRANCES	GROUP "A" MARBLE AS CLASSIFIED BY THE MARBLE INSTITUTE OF AMERICA
81	METAL DOOR LOUVERS ( AT RATED OPENINGS)	ANEMOSTAT FLDL-UL-SG2 LOUVER
82	METAL DOOR LOUVERS (AT NON-RATED OPENINGS)	ANEMOSTAT PLSL LOUVER
<b>83 WINDOWS</b>		
84	ALUMINUM WINDOWS	Subject to LAMC approval
85	WINDOW COVERING	LEVOLOR, RIVERA
86	DECORATIVE FILMS	3M
<b>87 DIV. 09: FINISHES</b>		
<b>88 FLOOR/ WALL FINISHES</b>		
89	CARPET	Tandus Or EQUAL
90	RESILIENT FLOORING	Forbo
91	CARPET MODULES	Tandus 36X36 mold resistant
92	RESILIENT TILES/SHEET FLOORING	Forbo
93	HARD SURFACE (GYMNASIUM)	MONDO
94	WALL BASE - RUBBER	Subject to LAMC approval
95	RAISED FLOORING SYSTEMS	Subject to LAMC approval
96	PORCELAIN TILE	DALTILE DIAMANTE 12"X12" COLOR: TBD
97	WALL COVERINGS	Dunn Edwards
98	PAINT	Dunn Edwards
99	HIGH PERFORMANCE COATINGS	Dunn Edwards
100	EPOXY FLOORING-(EXTERIOR)	NEOGARD
101	FLOOR MATS/WALK-OFF MATS	TANDUS
102	GRAFFITI RESISTANT COATINGS	PERMASHIELD PREMIUM OR GENESIS COATING
103	GRAFFITI RESISTANT FILM	3M
104	SEAMLESS FLOORING	MONDO
105	VCT	Subject to LAMC approval

	STANDARD	CAMPUS ALTERNATIVES
106	RESINOUS FLOORING-EPOXY	STONHARD, CROSSFIELD PRODUCTS
107	FIBERGLASS REINFORCED PLASTIC PANELS	MARLITE
108	GENERAL CERAMIC TILE	DAL TILES
109	MOTAR/GROUT	MAPEI, LATICRETE
110	TERRAZZO/MARBLE TILES	FRITZTILE OR EQUAL
111	CEMENTITIOUS GROUT (FLOOR TILE)	LATICRETE® PERMACOLOR™, OR APPROVED EQUAL.
112	EPOXY GROUT (WALL TILE)	LATICRETE® SPECTRALLOCK® PRO PREMIUM GROUT, OR APPROVED EQUAL.
113	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)
114	WALL TILE	FIELD TILE AND BASE DAL TILE SEMI-GLOSS 4" X 4" , ACCENT TILE, DAL TILE SEMI-GLOSS 4"X4"
115	WATERPROOF MEMBRANE	Subject to LAMC approval
116	EXTERIOR PLASTER	LA HABRA, HIGHLAND
117	PHOTOVOLTAICS	Subject to LAMC approval
118	<b>CEILING SYSTEMS</b>	
119	ACOUSTICAL TILE	ARMSTRONG
120	GRID SYSTEM	ARMSTRONG
121	ACOUSTICAL SUSPENSION SYSTEM	ARMSTRONG
122	SOUND-ABSORBING UNITS	AcoustiColor, USG
123	INTERIOR SUSPENDED LIGHTS	LITHONIA
124	WALL & CEILING ACCESS DOORS	SQUARE OR RECTANGULAR FRAMES WITH HINGED LOCKED DOOR
125	<b>DIV. 10: SPECIALTIES</b>	
126	SOAP DISPENSERS	CLEA
127	PAPER TOWEL DISPENSERS	SuperMax Jumbo tissue Dispenser with Stub Roll (SuperMax Plus #855806)
128		BOBRICK MODEL B-2860 SURFACE MOUNTED TOLL TOWEL DISPENSER, OR APPROVED EQUAL
129	Toilet paper dispensers	NEATSEAT® TOILET SEAT COVER DISPENSER, STAINLESS STEEL, MODEL #FH33SS NEATSEAT; OR APPROVED EQUAL.
130		BOBRICK MODEL B-2892 SURFACE-MOUNTED TWIN JUMBO-ROLL TOILET TISSUE DISPENSER, OR APPROVED EQUAL.
131	HAND DRYER	DYSON AIR BLADE
132	BATHROOM PARTITIONS	BOBRICK SIERRASERIES® WATER-AND FIRE-RESISTANT SOLID COLOR REINFORCED COMPOSITE TOILET PARTITIONS AND URINAL SCREENS,
133	RESTROOM ACCESSORIES	BOBRICK
134	LOCKERS	Debourgh
135	STORAGE/TRANSFER	Tyga-Box System or EQUAL
136	MARKER BOARD	Subject to LAMC approval
137	TACKBOARDS	Subject to LAMC approval

	STANDARD	CAMPUS ALTERNATIVES
138	OPERABLE PARTITIONS	WON DOOR
139	WALL AND CORNER GUARDS	Subject to LAMC approval
140	DIAPER-CHANGING STATION	KOALA KARE PRODUCTS MODEL KB-110-SSWM HORIZONTAL WALL MOUNTED STAINLESS STEEL FINISH BABY CHANGING STATION, OR APPROVED EQUAL.
141	FOLDING SHOWER SEATS	BOBRICK MODEL B-5181 REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT, OR APPROVED EQUAL.
142	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.)
143	KEYING FOR TOILET ACCESSORIES	BOBRICK KEY #2055
144	LAVATORY SINK (COUNTERTOP):	AMERICAN STANDARD MODEL 0476.028 AQUALYN™ VITREOUS CHINA COUNTERTOP SINK, OR APPROVED EQUAL.
145	LAVATORY SINK (WALL-HUNG, WHERE REPLACING EXISTING WALL-HUNG LAVATORY)	4" CENTERSET WITH CONCEALED ARM CARRIERS: AMERICAN STANDARD LUCERNE MODEL 0355.012, OR KOHLER KINGSTON K- 2005-0, OR APPROVED EQUAL.
146	MIRRORS (FRAMED)	BOBRICK B-290 SERIES, 18" X 36", OR APPROVED EQUAL.
147	SHOWER CURTAIN HOOKS	BOBRICK MODEL 204-1 STAINLESS STEEL SHOWER CURTAIN HOOK, OR APPROVED EQUAL.
148	SHOWER CURTAIN RODS	BOBRICK MODEL B-6107 HEAVY-DUTY SHOWER CURTAIN ROD, OR APPROVED EQUAL.
149	SHOWER CURTAINS	BOBRICK MODEL 204-3 VINYL SHOWER CURTAIN, OR APPROVED EQUAL.
150	SHOWER SOAP DISH	BOBRICK MODEL B-4390 RECESSED HEAVY-DUTY SOAP DISH WITH BAR, OR APPROVED EQUAL.
151	TOILET SEATS	BEMIS MODEL 1955CT, OR APPROVED EQUAL. 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.
152	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, OR APPROVED EQUAL.
153	UTILITY SHELF	BOBRICK MODEL B-298 STAINLESS STEEL SHELF, 24" MINIMUM LENGTH X 8" DEPTH, OR APPROVED EQUAL.
154	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, OR APPROVED EQUAL.
155	WASTE RECEPTACLES (AT STAFF/FACULTY RESTROOMS ONLY)	BOBRICK MODE B-3644 RECESSED WASTE RECEPTACLE, OR APPROVED EQUAL.
156	EMERGENCY RESPONDER LOCK BOX	KNOX BOX 3200 SERIES
157	EVACUATION CHAIR	GARAVENTA LIFT
158	REMOVABLE STEEL BOLLARD	CALPIPE SECURITY BOLLARDS
159	FLEXIBLE BOLLARDS	RELIANCE FOUNDRY, BC CANADA
160	FIRE ALARM SYSTEM	NOTIFIER
161	FIRE EXTINGUISHER CABINET W/ LOCK	Potter Roemer
162	<b>DIV. 11: EQUIPMENT</b>	
163	FOOD SERVICE EQUIPMENT	Hobart

STANDARD		CAMPUS ALTERNATIVES
164	KITCHEN, APPLIANCES	GE, Whirlpool
165	PROJECTION SCREENS	DA-LITE
166	PROJECTOR MOUNTS	CHIEF MAUNFACTURING OR EQUAL
167	LAB FUME HOOD	Subject to LAMC approval
<b>DIV. 12: FURNISHINGS</b>		
169	WINDOW SHADES	MECHO-SHADE CORP OR EQUAL
170	METAL LAB CASEWORK	Subject to LAMC approval
171	LAMINATED CASEWORK	Subject to LAMC approval
172	WOOD LAB CASEWORK	Subject to LAMC approval
<b>BLEACHERS</b>		
174	INTERIOR, GYMNASIUM	Irwin Telescopic
175	Exterior, Gym	Sturdisteel
<b>WINDOW COVERING</b>		
177	SOLAR SHADE	Mecho Shade, Levolor
178	BLINDS - VERTICAL/ HORIZONTAL	Levolor
179	BIKE PARKING RACK	PARK A BIKE
<b>DIV. 13: SPECIAL CONSTRUCTION</b>		
181	MODULAR STRUCTURES	Subject to LAMC approval
<b>DIV. 14: CONVEYING EQUIPMENT</b>		
183	STANDARD ELEVATORS	SCHINDLER, OTIS
184	CONTROLLER	MOTION CONTROLS.....CONTROLLER CANNOT BE PROPRIETARY
185	ELEVATOR DOORS Graffiti proof interior	GAL DOOR EQUIPMENT
186	ELEVATOR CAB LIGHT FIXTURE	ERIM FIXTURES
187	WHEELCHAIR LIFTS	Garaventa
188	EXIT STAIR EVACUATION CHAIRS	Garaventa Evacuation chairs , EVACU-TRAC CD7 or better
189	HYDRAULIC ELEVATORS	SCHINDLER
190	DUMBWAITER	MATOT
<b>DIV. 21: FIRE SUPPRESSION</b>		
192	HYDRANTS	James Jones
<b>DIV. 22: PLUMBING</b>		
<b>PIPE</b>		
195	DOMESTIC, /POTABLE	C900 Blue, Copper K and Tpye L, #80 PVC
196	UNDERGROUND WATER IRRIGATION PIPING	Schedule 40 and schedule 80 PVC 1/2" to 3" CVPC clorinated polyvinyl
197	UNDERGROUND SANITARY PIPING	Cast iron, SDR-35 ASTM A888
198	ABOVE GROUND SANITARY PIPING	Cast Iron Tyler Pipe /DWV Copper
199	PIPE TUBING AND FITTINGS	C-900 Mega Lug FTGs Approved CI Conn Flange
200	STEEL PIPE FUEL GAS/NATURAL GAS	Black Schedule 40 indor only with similar fittings
201	PIPE WATER OR AIR	USE COPPER ONLY
202	BRASS PIPE	Schedule 40 lead free
203	COPPER TUBING	Type "K" below grade or Type "L" above grades only
204	BRASS SCHEDULE 40 SOLDER JOINT FTG's	Domestic
205	SCREWED FITTINGS	Domestic

STANDARD		CAMPUS ALTERNATIVES
206	<b>GAS PIPING UNDERGROUND</b>	Poly Pipe, yellow tracer wire, Butt fusion or socket
207	<b>BUILDING DRAIN, WASTE &amp; VENT</b>	Cast iron no hub, Cast Iron, Figs. / DWV Copper ANANCO, Domestic only
208	<b>PIPE AND FITTINGS</b>	Domestic only
209	<b>PLUMBING FIXTURES</b>	
210	<b>TOILET FIXTURES (Low Flow, Viterous China)</b>	Kohler
211	<b>SINKS</b>	American Standard, Kohler
212	<b>Stop Fittings</b>	Chicago Faucets model 1013-ABLP
213	<b>KITCHEN SINKS</b>	Elkay, (stainless steel)
214	<b>URINALS (Low Flow)</b>	Kohler
215	<b>URINALS (Waterless)</b>	DO NOT USE
216	<b>FAUCETS</b>	Chicago-HYTRONIC 116.21..AB.1
217		SYMMONS NO Zurn
218	<b>FLUSH VALVES - TOILETS, URINALS</b>	Sloan 111 -1.28 DFSM OR 186 -0.125 SFSM- no zurn
219	<b>DOMESTIC WATER HEATER</b>	Lochinvar
220	<b>CIRCULATING PUMP</b>	Bell and Gossett
221	<b>PRESSURE REGULATOR VALVES</b>	WATTS LF2235 AND LFU5B-Z3
222	<b>PLUMBING VALVES AND ACCESSORIES</b>	
223	<b>GENERAL</b>	Nibco, Apollo, domestic product only
224		lead free where applicable
225	<b>EXPANSION TANKS</b>	AMTROL
226	<b>BACKFLOW PREVENTERS</b>	Watts, Conbraco
227	<b>CLEAN OUTS</b>	JR. Smith, Zurn
228	<b>FLOOR DRAINS</b>	JR. Smith, Zurn
229	<b>TRAP PRIMERS</b>	Automatic or connect to flush valve
230	<b>ROOF DRAINS</b>	J R. Smith
231	<b>BALL VALVES</b>	NIBCO (Brass, Full Port) Accorn
232	<b>GATE VALVES</b>	NIBCO (Union Bonnet, Raised Stem) Accorn
233	<b>GLOBE VALVES</b>	NIBCO (Brass)
234	<b>CHECK VALVES</b>	NIBCO (Brass)
235	<b>VALVES( WATER, BELOW GROUND)</b>	Domestic, Stockham (Cast Iron Flanged AWWA with operating unit)
236	<b>Backwater</b>	Zurn
237	<b>Drain Pumps</b>	Weil Pump
238	<b>Drainage</b>	J R. Smith
239	<b>CHECK VALVES</b>	DOMESTIC
240	<b>Drainage System</b>	J R. Smith
241	<b>Electric Self regulating T&amp;M Cable</b>	Raycem Corp
242	<b>Trench Funnel Drains</b>	Stockham Valves & Fittings Co.
243	<b>Hose Bibb Box</b>	ACORN 8141/8102
244	<b>Piston Water Hammer</b>	MIFAB MWA Series
245	<b>Shower heads &amp; Faucets</b>	Symmons
246	<b>Boiler</b>	Raypack
247	<b>EMERGENCY EYEWASH &amp; SHOWER</b>	

	STANDARD	CAMPUS ALTERNATIVES
248	EMERGENCY EYEWASH & SHOWERS	Haws
249	<b>WATER FOUNTAINS</b>	
250	DRINKING	Haws
251	<b>DIV. 23: HEATING, VENTILLATION &amp; AIR CONDITIONING (HVAC)</b>	
252	A/C UNITS, ROOF MOUNTED	Trane
253	A/C UNITS WALL MOUNTED	Trane
254	AIR HANDLERS – CUSTOM	Trane
255	AIR HANDLERS	Trane
256	HVAC HYDRONIC CONTROL VALVE	Belimo
257	HVAC HEATING & COOLING CONTROL VALVE	Belimo PICCV two way with reversing switch
258	HVAC HYDRONIC PIPE FLANGE ADAPTER CONNECTIONS	OMNI
259	MOTORS	Baldor
260	PUMPS	TACO
261	COOLING TOWERS	Baltimore Air Coil
262	OTHER FILTERS	Camfil-Farr
263	BOILER CONTROLS-HOT WATER	Raypack condensening boiler 98% efficient
264	FAN COILS DX	Trane
265	COMPUTER ROOM AC UNITS	Liebert
266	CHILLED WATER FAN COILS	Trane
267	AIR COOLED CHILLER	Trane
268	CENTRIFUGAL WATER-COOLED CHILLER	Trane
269	SCREW-TYPE AIR COOLED CHILLER	Trane
270	SCREW-TYPE WATER COOLED CHILLER	Trane
271	SCROLL-TYPE AIR COOLED CHILLER	Trane
272	CHILLER-GENERAL	Trane
273	ABSORBTION CHILLER	Trane
274	OTHER ABSORBTION CHILLER	Subject to LAMC approval
275	VENTILATORS AND EXHAUST FANS	Cook
276	FIRE SMOKE DAMPER	Belmo w/ end switch to communicate to EMS
277	VARIABLE FREQUENCY DRIVES	ABB
278	HYDRONIC PIPING	Insulated PVC Perma Pipe
279	AIR CONIDITIONING THERMOSTAT	Total Line
280	THERMOSTAT LOCK BOX	Large Opaque / PINTG 512B1007
281	Motor Controls	Allen Bradley
282	<b>DIV. 25: INTEGRATED AUTOMATION</b>	
283	ENERGY MANAGEMENT SYSTEM	ALERTON-CLIMATECH
284	<b>DIV. 26: ELECTRICAL</b>	
285	<b>ELECTRICAL FIXTURES</b>	
286	INTERIOR LIGHT FIXTURES(LED), Fluoresces No incandesce light fixture	LED
287	CONNECT WITH EMERGENCY LIGHTS	ALERTRON TO EMERGENCY GRID
288	EXIT SIGNS	LED
289	ELECTRONIC WALL CLOCKS	PRIMEX WIRELESS



	STANDARD		CAMPUS ALTERNATIVES
290	INTERIOR SUSPENDED LIGHTS		LITHONIA, LED
291	<b>LIGHTING/INDOOR-OUTDOOR</b>		
292	VANDAL PROOF LIGHTING FIXTURES		LED Tpye, 10 years warranty on LED and Driver
293	<b>LANDSCAPING FIXTURES</b>		
294	EXTERIOR LIGHTS-PARKING LOT		LED Tpye, 10 years warranty on LED and Driver
295	LIGHT SENSORS		LUTRON
296	PARKING LOT		LED Tpye, 10 years warranty on LED and Driver
297	ATHLETIC FIELD		LITHONIA
298	<b>ELECTRICAL EQUIPMENT</b>		
299	MAIN SWITCHBOARD		SQUARE D
300	MAIN DISTRIBUTION SWITCHBOARDS		SQUARE D
301	DRY TYPE TRANSFORMERS		SQUARE D
302	MAGNETIC MOTOR STARTERS		SQUARE D
303	SOFT START MOTOR STARTERS		SQUARE D
304	PANELBOARDS		SQUARE D
305	MCC (MOTOR CONTROL CENTERS)		SQUARE D
306	DRIVES		ABB
307	ELECTRICAL FINISH FACE PLATES		STAINLESS
308	<b>ELECTRIC VEHICLES/ CHARGERS</b>		
309	ELECTRICAL VEHICLES AND CHARGERS		TAYLOR DUNN
310	CHARGER Mfr		LESTER
311	<b>EMERGENCY POWER SYSTEM-GRID MATRIX</b>		
312	CONNECT WITH SUMP PUMPS		ALERTRON TO EMERGENCY GRID
313	CONNECT WITH CO2 SENSORS		ALERTRON TO EMERGENCY GRID
314	CONNECT WITH EMS/CMMMS		ALERTRON TO EMERGENCY GRID
315	<b>EMERGENCY MANAGEMENT SYSTEM</b>		
316	EMERGENCY MANAGEMENT SYSTEM		ALERTON-CLIMATECH
317	ENERGY MANAGEMENT SYSTEM		ALERTON-CLIMATECH
318	<b>FIRE PROTECTION</b>		
319	ELECTRONICS		NOTIFIER
320	<b>LIGHTING SUPPLIES</b>		
321	LIGHT BULBS, FLOURESCNETS T-8's		PHILLIPS 4100K MIN 80CRI
322	BALLASTS		PHILLIPS
323	OTHER		LED
324	<b>EMERGENCY POWER SYSTEMS</b>		
325	GENERATORS		CATERPILLAR
326	UPS		APC
327	INVERTORS		MYERS POWER
328	<b>DIV. 27: COMMUNICATIONS</b>		
329	Data Center Server Enclosures		CHARTWORTH
330	IDF Data Enclosures		APC
331	Network Cabling Systems		GENERAL CABLE CAT 6 & 6A
332	<b>27 05 00 COMMON RESULTS FOR COMM</b>		

STANDARD		CAMPUS ALTERNATIVES
333	Structured Cabling System Warranty	MINIMUM 25 YEAR WARRANTY
334	<b>27 05 26 GROUNDING &amp; BONDING</b>	
335	Bus Bar	COPPER B LINE
336	<b>27 05 28 PATHWAYS FOR COMM SYSTEMS</b>	
337	EMT Conduits & Couplings & Connectors	APPLETON
338	Conduit Supports	UNISTRUT
339	Hangers & Cable Ties	COOPER B-LINE
340	Metal Outlet Boxes - Double Gang, Extra Deep	STEEL CITY
341	Pull Boxes and Cabinets	HOFFMAN ENCLOSURES
342	Cable Tray	CHATSWORTH PRODUCTS
343	Air Blown Fiber System (ABF)	Sumitomo Electric FutureFLEX
344	IDF Data Enclosures	MIDDLE ATLANTIC
345		CHATSWORTH PRODUCTS
346	<b>27 05 43 UG DUCTS &amp; RACEWAY FOR COMM</b>	
347	Manholes	UTILITY VAULT (OLDCASTLE)
348	Pull boxes	UTILITY VAULT (OLDCASTLE)
349	MH/PB Hardware	INWESCO PRODUCTS
350	Conduits (Schedule 40 or Type C)	CARLON
351	Detectable Warning Tape	CARLON
352	Pull, Rope 1700 lb tensile strength	CARLON
353	Bonding ribbon (In vaults)	INWESCO CAT 12A55
354	Bonding ribbon clamps (In vaults)	INWESCO CAT 12A56
355	Fargo Clamp	INWESCO CAT 12A57
356	Ground Rod	INWESCO CAT 12A60
357	Ground Inserts (Cast Bronze)	INWESCO CAT 12H69
358	Manhole Lids	ALHAMBRA FOUNDRY
359	Manhole Ladders	ALHAMBRA FOUNDRY - MODEL A-3382 W/ A3383 SUPPORT BAR
360	<b>27 11 00 COMM EQUIP. ROOM FITTINGS</b>	
361	Ladder Racks	CHATSWORTH PRODUCTS
362	Equipment Racks	PANDUIT
363	Wall-Mounted Cabinets	COOPER B-LINE DAMAC
364	Horizontal Managers	SIEMON WM - 145-5
365	Fiber Optic Terminals (FOT's)-Housing	SIEMON RIC-3-72-01
366	Fiber Terminal Adapters and Connectors	SIEMON RIC-FLC6-01
367	Plywood	ARCH. WOOD PROTECTION
368		NATIONAL PLYWOOD INDUSTRIES, 1" MINIMUM
369	Patch panels	SIEMON ZXAS-PNL (F)-V48K
370	Cable Tags & Splice Labels	3M
371	Protector Panels	CIRCA
372	IP Paging	Singlewire Informacast
373	<b>27 13 00 COMM BACKBONE CABLING</b>	
374	Fiber Tube Cable (OSP and Riser)	SUMITOMO ELECTRIC FUTUREFLEX OR EQUAL

STANDARD		CAMPUS ALTERNATIVES
375	Fiber Cable - OSP and Riser	SUMITOMO ELECTRIC FUTUREFLEX ABF-50U OM4 OR EQUAL
376	Copper OSP Cable	GENERAL CABLE
377	Splice Cases - Outside	3M
378	Splice Cases - Inside	3M
379	Splice Bay & Relay Labels	3M
380	ABF Tube Clips	SUMITOMO ELECTRIC FUTUREFLEX
381	<b>27 15 00 COMM HORIZONTAL CABLING</b>	
382	Station Cabling	SIEMON 9T7R4E1006R1
383	Jacks	ORTRONICS
384	Faceplates	ORTRONICS
385	Emergency Phone	TALK-A-PHONE ANALOG BLUE PHONE
386	Elevator Phone	TALK-A-PHONE ANALOG
387	<b>27 40 00 AUDIO VISUAL</b>	
388	CONTROL SYSTEM	UTELOGY
389	PROJECTOR	PANASONIC
390	PROJECT SCREEN	DA-LITE
391	LECTERN	SPECTRUM FREEDOM XRS
392		FORBES-AV
393	DOCUMENT CAMERA	WOLFVISION
394	ASSISTIVE LISTENING DEVICE	LISTEN TECHNOLOGIES
395	MICROPHONE	SHURE
396	NETWORK SWITCH	CISCO CATALYST 3850 IP BASED-POE+
397		UPGRADABLE TO LATEST TECHNICAL ADVANCES
398	ANNOTATION DEVICE	SMART TECHNOLOGIES
399	INTERACTIVE DISPLAY	SMART TECHNOLOGIES
400	CLASSROOM LIGHTING CONTROL	LUTRON
401	SPEAKERS	JBL
402	PC COMPUTERS	HP ELITE SERIES
403	LECTURE CAPTURE	ENSEMBLE
404	NETWORK DATA SWITCHES	CISCO (W/POE)
405	UPS	APC
406	<b>DIV. 28: ELECTRONIC SAFETY &amp; SECURITY</b>	
407	<b>28 10 00 ELECTRONIC ACCESS CONTROL</b>	
408	Card Readers	HID ICLASS SE contactless smart card (R40 type) - no sub. Requires ICLASS Standard Compatibility, 920NTNTEK00000 (Typical model)
409	Software	Lenel OnGuard
410	Controllers	Lenel OnGuard. LNL 3300
411	Data Center Air Conditioning	DATA AIRE
412	Classroom AV	UTELOGY
413	Data Center Power Protection	LIEBERT
414	Alarm Initiating Devices	GE/SENTROL
415	Video Management Software	ONSSI OCCULARIES ES

STANDARD		CAMPUS ALTERNATIVES
416	<b>28 20 00 ELECTRONIC SURVEILLANCE</b>	
417	<b>CCTV Cameras</b>	Review this section to District Standards
418	<b>High Definition / MEGA Pixel</b>	ARECONT VISION MEGAVIDEO SERIES
419	<b>Digital VIDEO to IP ENCODER</b>	AXIS: Q741
420	<b>System Server</b>	Lenel Enterprise NVR
421	<b>Recording System</b>	NETAPP FAS2240 or newer
422	<b>TV Panels</b>	Samsung
423	<b>CCTV</b>	PANASONIC- DIGITAL IP
424	<b>Access System</b>	LENEL ENTERPRISE
425	<b>Motion Detector</b>	BOSCH MODEL D5936
426	<b>SIS Head-End</b>	ZENITEL/STENTONFON
427	<b>Wall Mounted Field Devices</b>	TALK A PHONE ETP-WM
428	<b>Freestanding Field Devices</b>	TALK A PHONE ETP-MT/R OP 4 OR 5
429	<b>Room Signs</b>	Per Kendall Sign Inc. design dated 10-1-14.
430	<b>WIRELESS ACCESS POINTS</b>	
431	<b>Indoor Access Points</b>	Cisco Series- latest technologies
432	<b>Outdoor Access Points</b>	Cisco Series- latest technologies W/NEMA 4 ENCLOSURE
433	<b>NETWORK SWITCHES</b>	
434	<b>Data Switches</b>	Cisco Catalyst IP Based-POE+
435	<b>FIRE ALARM SYSTEM</b>	
436	<b>GENERAL</b>	NOTIFIER
437	<b>FIRE ALARM PULL STATION</b>	NOTIFIER
438	<b>SPEAKER/STROLL AMBER ALERT</b>	NOTIFIER
439		EDWARDS W/ MASS NOTIFICATION
440	<b>DIV. 32: EXTERIOR IMPROVEMENTS</b>	
441	<b>ANTI GRAFFITI PRODUCTS</b>	3M FILMS
442	<b>IRRIGATION SYSTEMS</b>	
443	<b>IRRIGATION CONTROLLER</b>	RAINBIRD
444	<b>IRRIGATION - Sprinkler Heads</b>	RAINBIRD 1800 6" OR 8"
445	<b>IRRIGATION - Heads</b>	RAINBIRD FALCON WITH STAINLESS STEEL BODY
446	<b>IRRIGATION - Heads</b>	RAINBIRD 5000
447	<b>IRRIGATION - Control Valves</b>	SUPERIOR 950 DSPS BRASS
448	<b>IRRIGATION - Pipes</b>	SCHEDULE 80 PVC PIPE - HIGH PRESSURE
449		SCHEDULE 40 PVC
450	<b>IRRIGATION - Fittings</b>	SCHEDULE 80 SOCKET WELD FITTINGS
451		NO COUPLINGS OR BELL END CONNECTIONS
452	<b>IRRIGATION SYSTEMS</b>	RAINBIRD
453	<b>OUTDOOR FURNITURES</b>	Subject to LAMC approval
454	<b>PAVEMENT MARKINGS</b>	DUNN-EDWARDS
455	<b>CONTROLLER REMOTE SITE MANAGEMENT</b>	RAINBIRD
456	<b>CONTROLLER HAND-HELD REMOTE CONTROL</b>	TRC COMMANDER
457	<b>CONTROLLER ENCLOSURE</b>	V.I.T. Strong Box SB-xxSS with QP
458	<b>RAIN SENSOR</b>	RAINBIRD

	STANDARD	CAMPUS ALTERNATIVES
459	CONTROL WIRE - COMMON	Paige P7001D 12 AWG White
460	CONTROL WIRE - HOT	Paige P7001D 14 AWG Colored
461	WATERPROOF WIRE CONNECTOR	Spears DS-500 Dri-Splice
462	GROUNDING ROD	Paige 182007 with Paige 1820037P Connection
463	DIELECTRIC CONNECTION	Approved by Electrical Engineer
464	BOOSTER PUMP	RAINBIRD ONLY
465	BASKET STRAINER	Yardney SBx-T Series
466	BASKET STRAINER ENCLOSURE	V.I.T. Strong Box SBBC-xxSS with QP Option
467	PRESSURE REGULATOR	WATTS LF2235 LARGE
468		WATTS LFU5B23 FOR SMALL
469	MASTER VALVE	Rainbird P22o Brass series with Pressure regulator
470	FLOW SENSOR	RAINBIRD
471	GATE VALVE (2" and SMALLER)	Nibco T-113 Series
472	GATE VALVE (2 1/2" and LARGER)	Nibco F-619-SON Series
473	BALL VALVE (2" and SMALLER)	Nibco T-585-70 Series
474	AIR RELEASE VALVE	Cla-Val #33-A Series
475	QUICK COUPLING VALVE	Rain Bird #44-NP 3/4"
476	ELECTRIC CONTROL VALVE	SUPERIOR 950 DSPS
477	DRIP ZONE VALVE KIT	Toro TPV Series, NATAFIM
478	VALVE BOX	NDS Pro Plus Series (green plastic with purple bolt-down cover)
479	MAINLINE PIPING (6" and LARGER)	C9000
480	MAINLINE PIPING (2" - 4")	Pacific Plastics or equal CL315 Solvent-Weld PVC - Purple
481		NO BELL END CONNECTION - USE SCH 80 COUPLINGS
482	MAINLINE PIPING (1 1/2" and SMALLER)	Pacific Plastics or equal SCH 40 Solvent-Weld PVC – Purple or Sch 80 PVC
483	LATERL LINE PIPING	Pacific Plastics or equal SCH 40 Solvent-Weld PVC – Purple, or SCH 80 PVC
484		USE 711 SOLVENT CEMENT WITH PURPLE PRIMER
485	PIPE / WIRE SLEEVING	Pacific Plastics or equal SCH 40 Solvent-Weld PVC
486	PIPE FITTINGS (MAINLINE)	Spears or equal SCH 80 PVC
487	PIPE FITTINGS (LATERAL LINES)	Spears or equal SCH 40 PVC
488		USE SCH 80 MALE ADAPTER
489	ARTIFICIAL TURF COOLING SYSTEM HEADS	Toro TS90TP Series
490	LARGE TURF ROTOR HEADS	RAINBIRD FALCON W/ STAINLESS STEEL BODY
491	MEDIUM ROTOR HEADS	RAINBIRD 5000
492	SMALL ROTOR HEADS	RAINBIRD
493	FIXED SPRAY HEADS	RAINBIRD 1800
494	FLOOD BUBBLER	RAINBIRD
495	TREE ROOT WATERING SYSTEM	RAINBIRD RWS SERIES
496	DRIP LINE SYSTEMS	RAINBIRD
497	DRIP SYSTEM FITTINGS / ACCESSORIES	RAINBIRD
498	BIRD DETERRANTS	Subject to LAMC approval
499	GROUND PREPARATION FOR LANDSCAPING	NO CONCRETE OR ASPHALT AND NO AGGREGATE OVER 1/4" , NEW TOP SOIL REQUIRED TOP 6"

STANDARD		CAMPUS ALTERNATIVES
500	<b>LANDSCAPE DESIGN</b>	
501	<b>LARGE TREES</b>	Ceadrus deodora [Deodar cedar]
502	<b>MEDIUM TREES PRIMARILY FOR SHADE</b>	Jacaranda mimosifolia [Jacaranda ]
503		Liriodendron arnoldii [Tulip tree]
504	<b>SMALL TREES FOR FLOWERS &amp; FRAGRANCE</b>	Arbutus 'Marina' [Marina Strawberry tree]
505		Cassia leptophylla [Gold medallion tree]
506		Lagerstromia indica [Crape Myrtle]
507		Tabebuia lpe [ Pink trumpet tree]
508	<b>PALMS</b>	Cycas revoluta [Sago palm]
509	<b>SHRUBS INACTIVE AREAS</b>	Heteromeles arbutifolia [Toyon]
510		Rhamnus calif. 'San Bruno's mound' [Coffeeberry]
511	<b>SHRUBS IN IRRIGATED AREAS</b>	Agave attenuata, [Fox tail agave]
512		Callistemon 'Little John' Little John bottlebrush
513		Cistus sp. [Rockrose]
514		Coelonema pulchrum, [Pink breath of heaven]
515		Ligustrum texanum [Texas privet]
516		Myrtus communis [Myrtle]
517		Osmanthus fragrans [Sweet olive]
518		Pittosporum tobira sp. [Tobira]
519		Raphiolepis indica sp. [Indian hawthorne]