

LA TRADE TECHNOLOGY COLLEGE CAMPUS STANDARDS MATRIX

(Note: Campus Preferences indicated 1st, followed by additional manufacturers which are being considered by LACCD)

STANDARD		CAMPUS ALTERNATIVES
1	EXISTING CONDITION	
2	TELEPHONE SYSTEM	CISCO VoIP
3	DIV. 05: METALS	
4	LADDER	ALACO, O'KEEFFE'S, ACL, PRECISION
5	DIV. 06: WOOD, PLASTICS AND COMPOSITES	
6	WALL SHEATHING	G-P GYPSUM OR EQUAL
7	PLASTIC LAMINATE	NEVAMAR, FORMICA, WILSONART, OR EQUAL
8	CABINET DRAWER GLIDES	ACCURIDE 3832
9	CABINET HINGES	ROCKFORD PROCESS CONTROL (RPC) #851
10	CABINET LOCKS	BEST 5L SERIES DEADBOLTS AND STRIKES
11	CABINET MAGNETIC CATCHES	EPCO #591
12	CABINET PULLS	TRIMCO 562-4
13	CABINET SHELF STANDARDS	KNAPE & VOGT (KV) 255
14	DIV. 07: THERMAL & MOISTURE PROTECTION	
15	ROOFING - GENERAL	
16	GENERAL	GAF, JOHNS MANVILLE
17	FIREPROOFING	
18	GENERAL	MONOKOTE, CAFCO,
19	BITUMINOUS DAMPPROOFING	WR MEADOWS, HENRY, CARLISLE COATINGS
20	SELF-ADHERING SHEET WATERPROOFING	WR GRACE, WR MEADOWS, CARLISLE COATINGS
21	DIV. 08: OPENINGS	
22	SLIDING METAL FIRE DOOR	SMOKE GUARD OR EQUAL
23	WOOD DOORS - GENERAL	HALEY BROTHERS, INC, MARSHFIELD DOOR SYS, EGGERS INDUSTRIES,
24	ACCESS DOORS	MILCOR, BILCO, KARP
25	WINDOWS	ANDERSEN, PELLA , MARVIN.
26	SLIDING ALUMINUM FRAMED GLASS DOORS	STANLEY
27	OVERHEAD COILING DOORS	COOKSON, OVERHEAD DOOR CO,
28	OVERHEAD COILING GRILLS	OVERHEAD DOORS, COOKSON OR EQUAL
29	ACCORDION FOLDING DOORS	WON-DOOR, HUF COR, WOODFOLD
30	ROOF HATCH	BILCO, MILCOR, KARP
31	STOREFRONTS	ARCADIA OR EQUAL
32	CURTAIN WALL	ARCADIA OR EQUAL
33	HARDWARE	
34	ANTI VANDAL PULL	TRIMCO 1097HA-SP
35	ANTI VANDAL PULL	TRIMCO 1097HA-SP-NC
36	ANTI VANDAL PULL	TRIMCO 1096HA
37	ARMOR COLLAR	KEEDEK K-24
38	ASTRAGAL	BY DOOR MANUFACTURER / PEMKO 355S
39	AUTO DOOR OPERATOR	LCN 4640-CS
40	AUTO DOOR CLOSER	LCN BY RBA,
41	AUTO FLUSH BOLT	TRIMCO 3825L X 3815L
42	AUTO FLUSH BOLTS	TRIMCO 3820 X 3810
43	BOLLARD ACTUATOR	LCN 8310-3853TWB

44	BOLLARD POST	LCN 8310-866
45	BUTT HINGES	STANLEY
46	CONTINUOUS HINGE	STANLEY 651 X SHIM X EPT PREP
47	CONTINUOUS HINGE	STANLEY 651 X SHIM
48	CONTINUOUS HINGES	STANLEY
49	COORDINATORS	TRIMCO 3094 X 3095/3096 AS REQ'D
50	CYLINDERS	BEST
51	DOOR BOTTOM	PEMKO 216PK
52	DOOR BOTTOM	PEMKO 217PK
53	DOOR HOLDER	LCN PAH-60
54	DOOR STOPS	TRIMCO
55	DOOR SWEEP	PEMKO 3452V
56	DUST PROOF STRIKE	TRIMCO 3911
57	DUST PROOF STRIKE	TRIMCO 3910
58	ELECTRIC LOCKSET	BEST 45HW7DEU X 3H X L/OST
59	ELECTRICAL CABINET KEYING	LL803
60	EXIT DEVICE	VON DUPRIN SD-EL98NL-OP X 110NL AX
61	EXIT DEVICE	VON DUPRIN SD98EO AX
62	EXIT DEVICE	VON DUPRIN CD98NL-OP X 110NL AX
63	EXIT DEVICE	VON DUPRIN CD98EO AX
64	EXIT DEVICES	VON DUPRIN CD99 SERIES 996L-03 LEVER AX
65	FIRE ALARM PANEL KEYING	CAT 45
66	HINGE	STANLEY FBB179 - 4-1/2 X 4-1/2
67	I/C CORE CYLINDER	BEST 1C-7
68	I/C MORTISE CYLINDER	BEST 1E74
69	I/C MORTISE CYLINDER	BEST 1E7G4
70	I/C RIM CYLINDER	BEST 1E72
71	KEYING OF CYLINDER	BEST I/C CORE CYLINDER, 7-PIN.
72	KICK PLATE	TRIMCO KO050 - 10 X 2 LDW B4E
73	LATCHSET	BEST 45H0N X 3H
74	LOCKSETS	BEST 45H SERIES 3H
75	MOP PLATE	TRIMCO KM050 - 6 X 1 LDW B4E
76	MULLION SEAL	BEST LOCK 5110
77	OVERHEAD COILING DOOR KEY SWITCH CONTROL	VEE INDUSTRIES, INC. 1 KX SURFACE MOUNT KEY SWITCH
78	OVERHEAD STOPS	GLYNN-JOHNSON
79	POWER SUPPLY	VON DUPRIN PS914 X 900-2RS
80	POWER TRANSER	VON DUPRIN EPT-2
81	PRIVACY	BEST 45H0LT X 3H
82	PUSH/PULLS	TRIMCO
83	REMOVABLE MULLION	VON DUPRIN KR4954 X MT54
84	SILENCERS	TRIMCO 1229A
85	SMOKE SEALS	PEMKO S44 HEAD & JAMBS
86	SURFACE CLOSER	LCN P4041-SCNS
87	SURFACE CLOSER	LCN P4041-EDA
88	SURFACE CLOSER	LCN P4041-H-EDA

89	SURFACE CLOSERS	LCN 4041 SERIES WITH "EDA" ARMS.
90	THRESHOLD	PEMKO
91	WALL ACTUATOR	LCN 8310-853TWP
92	WALL BUMPER	TRIMCO 1270CVPV
93	WEATHERSTRIP	PEMKO 2891S HEAD & JAMBS
94	WIRELESS RECEIVER	LCN 8310-865
95	RESTROOM ENTRY DOORS	
96	HOLLOW METAL DOORS, MINIMUM REQUIREMENTS	SDI-100 GRADE II MODEL 3, 1 3/4 INCHES THICK.
97	HOLLOW METAL FRAMES, MINIMUM REQUIREMENTS	16 GAUGE THICK MATERIAL, TO SUIT DOOR.
98	MARBLE THRESHOLDS AT TOILET ROOM ENTRANCES	GROUP "A" MARBLE AS CLASSIFIED BY THE MARBLE INSTITUTE OF AMERICA
99	METAL DOOR LOUVERS (AT RATED OPENINGS)	ANEMOSTAT FLDL-UL-SG2 LOUVER
100	METAL DOOR LOUVERS (AT NON-RATED OPENINGS)	ANEMOSTAT PLSL LOUVER
101	WINDOW TREATMENTS	
102	WINDOW COVERING	LEVELOR RIVERA, HUNTER DOUGLAS
103	DECORATIVE FILMS	3M, LLUMAR/VISTA, METROPOLITAN WEST
104	DIV. 09: FINISHES	
105	CARPET	TANDUS
106	CARPET MODULES	TANDUS
107	EPOXY FLOORING-(EXTERIOR)	NEOGARD
108	HIGH PERFORMANCE COATINGS	DUNN EDWARDS, SHERWIN WILLIAMS
109	FLOOR MATS/WALK-OFF MATS	TANDUS
110	HARD SURFACE (GYMNASIUM)	MONDO, AACER, NOBLE HOUSE, TERAFLX
111	PAINT	DUNN EDWARDS, OR EQUAL
112	GRAFFITI RESISTANT COATINGS	PERMASHIELD PREMIUM, GENESIS COATING
113	GRAFFITI RESISTANT FILM	3M, JOHNSON WINDOW FILMS
114	RAISED FLOORING SYSTEMS	TATE, ACCESS FLOOR CO,
115	RESILIENT TILES/SHEET FLOORING	JOHNSONITE, ARMSTRONG, MANNINGTON OR EQUAL
116	SEAMLESS FLOORING	JOHNSONITE, ARMSTRONG, MANNINGTON OR EQUAL
117	VCT	JOHNSONITE, ARMSTRONG, MANNINGTON OR EQUAL
118	RESINOUS FLOORING-EPOXY	STONHARD, CROSSFIELD PRODUCTS, TNEMEC
119	FIBERGLASS REINFORCED PLASTIC PANELS	MARLITE, KEMLITE/CRANE, GLASTEEL
120	WALL BASE	JOHNSONITE, ARMSTRONG, MANNINGTON OR EQUAL
121	WALL COVERINGS	DESIGNER WALLCOVERINGS/SAND, LLC
122	PORCELAIN TILE-CERAMIC	
123	GENERAL	DALE TILES
124	MOTAR/GROUT	LATICRETE
125	TERRAZZO/MARBLE TILES	FRITZTILE OR EQUAL
126	RESTROOM FINISHES	
127	CEMENTITIOUS GROUT (FLOOR TILE)	LATICRETE® PERMACOLOR™, OR APPROVED EQUAL.

128	EPOXY GROUT (WALL TILE)	LATICRETE® SPECTRALLOCK® PRO PREMIUM GROUT, OR APPROVED EQUAL.
129	FLOOR TILE	DALTILE, OR APPROVED EQUAL.
130	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)
131	WALL TILE	DALTILE, OR APPROVED EQUAL.
132	WATERPROOF MEMBRANE	LATICRETE® HYDRO BARRIER™, OR APPROVED EQUAL.
133	CEILING SYSTEMS	
134	ACUSTICAL TILE	ARMSTRONG, USG
135	ACOUSTICAL SUSPENSION SYSTEM	ARMSTRONG, USG OR CHICARGO METALLIC CO,
136	INTERIOR SUSPENDED LIGHTS	PRUDENTIAL, LITHONIA
137	DIV. 10: SPECIALTIES	
138	LOCKERS - GENERAL	LYON METAL PRODUCTS, REPUBLIC, PENCO
139	MARKER BOARD	ABC SCHOOL SUPPLIES, EGAN VISUAL, ADP LEMCO
140	TACKBOARDS	ABC SCHOOL SUPPLIES, ADP LEMCO
141	OPERABLE PARTITIONS	WON DOOR, HUF COR AIRWALL,
142	WALL AND CORNER GUARDS	CONSTRUCTION SPECIALTIES, INC., BALCO, PAWLING,
143	RESTROOM SPECIALTIES	
144	BATHROOM PARTITIONS	BOBRICK SIERRASERIES® WATER-AND FIRE-RESISTANT SOLID COLOR REINFORCED COMPOSITE TOILET PARTITIONS AND URINAL SCREENS, OR CAMPUS APPROVED EQUAL.
145	DIAPER-CHANGING STATION:	KOALA KARE PRODUCTS MODEL KB-110-SSWM HORIZONTAL WALL MOUNTED STAINLESS STEEL FINISH BABY CHANGING STATION, OR APPROVED EQUAL.
146	FOLDING SHOWER SEATS	BOBRICK MODEL B-5181 REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT, OR APPROVED EQUAL.
147	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.)
148	HAND DRYERS	BRADLEY MODEL 2897-28 RECESSED HAND DRYER, MAXIMUM 4" PROJECTION FROM WALL, OR APPROVED EQUAL.
149	KEYING FOR TOILET ACCESSORIES	BOBRICK KEY #2055
150	LAVATORY SINK (COUNTERTOP):	AMERICAN STANDARD MODEL 0476.028 AQUALYN™ VITREOUS CHINA COUNTERTOP SINK, OR APPROVED EQUAL.

151	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.
152	MIRRORS (FRAMED)	BOBRICK B-290 SERIES, 18" X 36", OR APPROVED EQUAL.
153	PAPER TOWEL DISPENSERS (AT STAFF/FACULTY RESTROOMS ONLY)	BOBRICK MODEL B-2860 SURFACE MOUNTED TOLL TOWEL DISPENSER, OR APPROVED EQUAL.
154	SANITARY NAPKIN	BOBRICK MODEL B-3706C STAINLESS STEEL SEMI-RECESSED NAPKIN/TAMPON DISPENSER, OR APPROVED EQUAL.
155	SANITARY NAPKIN DISPOSALS	RECESSED SANITARY NAPKIN DISPOSAL: BOBRICK MODEL B-353, OR APPROVED EQUAL / PARTITION-MOUNTED SANITARY NAPKIN DISPOSAL: BOBRICK MODEL B-354, OR APPROVED EQUAL.
156	SHOWER CURTAIN HOOKS	BOBRICK MODEL 204-1 STAINLESS STEEL SHOWER CURTAIN HOOK, OR APPROVED EQUAL.
157	SHOWER CURTAIN RODS	BOBRICK MODEL B-6107 HEAVY-DUTY SHOWER CURTAIN ROD, OR APPROVED EQUAL.
158	SHOWER CURTAINS	BOBRICK MODEL 204-3 VINYL SHOWER CURTAIN, OR APPROVED EQUAL.
159	SHOWER SOAP DISH	BOBRICK MODEL B-4390 RECESSED HEAVY-DUTY SOAP DISH WITH BAR, OR APPROVED EQUAL.
160	SOAP DISPENSERS	TECHNICAL CONCEPTS LLC "TC ENRICHED FOAM SOAP SYSTEM" 800ML FOAM SOAP DISPENSER STAINLESS STEEL WITH KEYED LOCK, MODEL TC750382, OR APPROVED EQUAL.
161	TOILET SEAT COVER DISPENSERS	NEATSEAT® TOILET SEAT COVER DISPENSER, STAINLESS STEEL, MODEL #FH33SS NEATSEAT; OR APPROVED EQUAL.
162	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.
163	TOILET TISSUE DISPENSERS	BOBRICK MODEL B-2892 SURFACE-MOUNTED TWIN JUMBO- ROLL TOILET TISSUE DISPENSER, FOR NONE ADA
164	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.
165	UTILITY SHELF	BOBRICK MODEL B-298 STAINLESS STEEL SHELF, 24" MINIMUM LENGTH X 8" DEPTH, OR APPROVED EQUAL.

166	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.
167	WASTE RECEPTACLES (AT STAFF/FACULTY RESTROOMS ONLY)	BOBRICK MODE B-3644 RECESSED WASTE RECEPTACLE, OR APPROVED EQUAL.
168	MISC. SPECIALTIES	
169	EMERGENCY RESPONDER LOCK BOX	KNOX BOX 3200 SERIES
170	EVACUATION CHAIR	GARAVENTA LIFT, STRYKER EMS OR EQUAL
171	REMOVABLE STEEL BOLLARD	CALPIPE SECURITY BOLLARDS
172	FLEXIBLE BOLLARDS	RELIANCE FOUNDRY, BC CANADA
173	FIRE PROTECTION	
174	FIRE ALARM SYSTEM	EST3 BY GE
175	EXTINGUISHERS/CABINETS	POTTER-ROEMER, J.L. INDUSTRIES,
176	FIREPROOFING	MONOKOTE, CAFCO,
177	DIV. 11: EQUIPMENTS	
178	PARKING CONTROL	
179	LOADING DOCK LEVELERS	MECHANICAL TYPE ONLY
180	CULINARY SPECIALTIES	
181	FOOD SERVICE EQUIPMENT	HOBART
182	KITCHEN APPLIANCES	GE, WHIRLPOOL,
183	PROJECTION SCREENS	DALITE
184	PROJECTOR MOUNTS	BMS (KEY #5); CHIEF MANUFACTURING OR EQUAL
185	LAB FUME HOOD	KEWAUNEE SCIENTIFIC
186	DIV. 12: FURNISHINGS	
187	WINDOW SHADES	MECHO-SHADE CORP OR EQUAL
188	METAL LAB CASEWORK	KEWAUNEE SCIENTIFIC, HANSON, HAMILTON
189	LAMINATED CASEWORK	KEWAUNEE SCIENTIFIC, HANSON, HAMILTON
190	WOOD LAB CASEWORK	KEWAUNEE SCIENTIFIC, HANSON, HAMILTON
191	DIV. 13: SPECIAL CONSTRUCTION	
192	MODULAR STRUCTURES	SUBMIT FOR CFD APPROVAL
193	DIV. 14: CONVEYING EQUIPMENT	
194	HYDRAULIC ELEVATORS-PASSENGER	OTIS, MITSUBISHI
195	HYDRAULIC ELEVATORS-FREIGHT	OTIS, MITSUBISHI
196	WHEEL CHAIR LIFT	GARVENTA LIFT,
197	DIV. 21: FIRE SUPPRESSION	
198	VALVES	RELIABLE, TYCO, NIBCO
199	FIRE PROTECTION EQUIPMENTS	RELIABLE, TYCO, VIKING
200	FIRE DEPARTMENT CONNECTIONS	POTTER-ROEMER, CROKER, ELKHART
201	POST INDICATOR VALVES	CLOW, MUELLER
202	FLOW AND TEMPER SWITCHES	NOTIFIER, POTTER ELECTRIC
203	FIRE HYDRANTS	CLOW VALVE, RICH VALVE,
204	DIV 22: PLUMBING	
205	BACKFLOW PREVENTER VALVES	WILKIN, FEBCO
206	BACKWATER VALVES	ZURN, JR. SMITH
207	CHECK VALVES	MILWAUKEE, ZURN, COMBRACO OR EQUAL

208	CLEAN OUTS	NIBCO, ZURN
209	DRAIN PUMPS	SWABY, WILPUMPM PACO, PEERLESS
210	DRAINAGE SYSTEMS	ZURN, J. R. SMITH MFR CO
211	DRINKING FOUNTAINS	HAWS,
212	ELECTRIC SELF-REGULATING T&M CABLE	RAYCHEM CORP. THERMON COMMERCIAL PROD. DIVISION
213	GROOVED MI FITTINGS & COUPLINGS	VICTAULIC CO, GRUVLOK CO.
214	NO HUP COUPLINGS	ANANCO, TYLER, M.G. COUPLING
215	NOISELESS CHECK VALVES	WILLIAMS GAUGE CO., MILWAUKEE VALVE
216	SHUT-OFF VALVES	ACCORN OR EQUAL
217	TRENCH -FUNNEL DRAINS	STOCKHAM VALVES & FITTINGS CO., NIBCO
218	VALVES AND ACCESSORIES	NIBCO, ZURN
219	RESTROOM PLUMBING/FIXTURES	
220	ANGLE STOP FITTING WITH LOOSE KEY	CHICAGO FAUCETS MODEL 1013-ABCP, OR EQUAL.
221	AUTOMATIC FLUSH VALVES, HARD-WIRED	SLOAN #111-1.28-ES-S-YO ROYAL OPTIMA ELECTRONIC "NO TOUCH" FLUSH VALVE UNIT, SLOAN #EL-154 TRANSFORMER, OR APPROVED EQUAL.
222	COPPER WATER TUBING	A. WATER, BELOW GRADE: TYPE K (HEAVY WALL). B. WATER, ABOVE GRADE: TYPE L (MEDIUM WALL). C. CONDENSATE: TYPE M (LIGHT WALL).
223	SERVICE SINK FAUCETS	CHICAGO WALL MOUNT
224	FAUCETS	CHICAGO, AMERICAN STANDARD, KOHLER
225	FLOOR DRAINS WITH ADJUSTABLE STRAINER HEADS	JR. SMITH MFG. CO. MODEL 2005Y (ROUND TOP), OR APPROVED EQUAL.
226	HOSE BIBB BOXES	STAINLESS STEEL RECESSED HOSE BOX. HOSE BIBB SHALL BE OPERABLE WITH LOOSE KEY HANDLE.
227	LAVATORY FAUCET AND DRAIN (RESTROOM LAVATORIES SHALL BE SUPPLIED WITH HOT AND COLD WATER)	A. HOT AND COLD WATER SINK FAUCET: CHICAGO FAUCETS MODEL 802-VABCP, OR APPROVED EQUAL. B. SINGLE SUPPLY METERING SINK FAUCET: CHICAGO FAUCETS MODEL 3400-ABCP, OR APPROVED EQUAL. C. HOT AND COLD WATER MIXING METERING SINK FAUCET: CHICAGO FAUCETS MODEL 857-665PSHABCP, OR APPROVED EQUAL. 1. CONCEALED MECHANICAL MIXING VALVE: CHICAGO FAUCETS MODEL 242.165.AB.1, OR APPROVED EQUAL. D. DRAIN GRID STRAINER WASTE: CHICAGO FAUCETS MODEL 327-XCP, OR APPROVED EQUAL.
228	PISTON OPERATED WATER HAMMER ARRESTOR	MIFAB® MWH SERIES, OR APPROVED EQUAL.
229	RESTROOM ACCESSORIES	BOBRICK, BRADLEY

230	SHOWER FAUCETS AND HEADS	A. ACCESSIBLE SHOWERS: SYMMONS TEMPTROL II™ (2000 SERIES) SHOWER SYSTEM WITH HAND SPRAY, MODEL 25-500-B30-V, OR APPROVED EQUAL. B. NON-ACCESSIBLE SHOWERS: SYMMONS 2000™ SERIES SHOWER SYSTEM (INCLUDES CLEAR- FLO SHOWER HEAD WITH ARM AND FLANGE), MODEL 25-1, OR APPROVED EQUAL. C. PROVIDE A SHUT-OFF VALVE IN A STAINLESS STEEL RECESSED WALL VALVE BOX WITH 1/8" ALLEN HEAD CAM LATCH, FOR EACH MANIFOLD SUPPLYING SHOWERS. MILCOR VERSATILE VALVE BOX IN SIZE AS DETERMINED BY ARCHITECT, OR APPROVED EQUAL.
231	SINKS	VITREOUS CHINA LAVATORIES, KOHLER, AMERICAN STANDARD, FALCON
232	TOILET FIXTURES	AMERICAN STANDARD, KOHLER, SOLAN
233	TRAP PRIMER	SOLAN ROYAL FLUSHOMETER, REGAL
234	VALVES - TOILETS, URINALS	SLOAN
235	WASTE AND VENT PIPE AND FITTINGS	A. CERTIFIED TO CONFORM TO ASTM A888. B. CERTIFIED TO CONFORM TO CISPI 301.
236	WASTE AND VENT ABOVE GRADE COUPLINGS	CONFORM TO ASTM C564
237	WATER CLOSET: FLOOR-MOUNTED (ACCESSIBLE)	USE ONLY WHERE THE INSTALLATION OF A WALL-HUNG WATER CLOSET IS IMPOSSIBLE. AMERICAN STANDARD MADERA MODEL 3043.001, OR KOHLER HIGHLINE MODEL K- 4405, OR APPROVED EQUAL
238	WATER CLOSET: FLOOR-MOUNTED (NON-ACCESSIBLE)	USE ONLY WHERE THE INSTALLATION OF A WALL-HUNG WATER CLOSET IS IMPOSSIBLE. AMERICAN STANDARD MADERA MODEL 3451.001, OR KOHLER WELLWORTH MODEL K-4406, OR APPROVED EQUAL.
239	WATER CLOSET: WALL HUNG (PREFERRED)	AMERICAN STANDARD AFWALL ELONGATED BOWL MODEL 3351.001, OR KOHLER KINGSTON MODEL K-4325, OR APPROVED EQUAL.
240	WATERLESS URINALS	DO NOT USE
241	WATER HEATERS/BOILERS	
242	ELECTRIC WATER HEATER	A.O. SMITH MODEL DEL-50, OR APPROVED EQUAL.
243	GAS WATER HEATER	A.O.SMITH, RHEEM, AMERICAN, STATE, LOCHINVAR
244	BOILER	LOCKINVAR, RAYPACK
245	PIPE	
246	DOMESTIC, IRRIGATION, FIRE	CPVC CHLORINATED POLY VINYL CHLORIDE PIPE, COPPER
247	UNDERGROUND WATER PIPING	SCHEDULE 40 AND SCHEDULE 80
248	PIPE TUBING AND FITTINGS	
249	BRASS PIPE	RED BRASS, SCHEDULE 40, LEAD FREE
250	BRASS SCHEDULE 40 SOLDER JOINT FTG'S	DOMESTIC

251	BUILDING DRAIN, WASTE & VENT	PVC MATERIAL, STANDARD ASTM,D2661-87 FOR 3 STORIES OR LESS, CAST IRON
252	COPPER TUBING	TYPE "K"
253	GAS PIPING	PE- NATURAL GAS YARD PIPING, LEED FREE, WRAPPED GREEN PIPE
254	PIPE AND FITTINGS	STANDARD D2751-88 CAST IRON, NO-HUB PIPE AND FITTINGS (WASTE)
255	STEEL PIPE	GALVANIZED OR BLACK SCHEDULE 40 DOMESTIC
256	EMERGENCY EYEWASH & SHOWER	HAWS, BRADLEY
257	DIV. 23: HEATING, VENTILATION & AIR CONDITIONING (HVAC)	
258	A/C UNITS WALL MOUNTED	BARD, CARRIER,
259	A/C UNITS, ROOF MOUNTED	TRANE, CARRIER, YORK
260	AIR HANDLERS	YORK, TRANE,
261	COOLING TOWERS	BALTIMORE AIR COOL (STAINLESS STEEL)
262	MOTOR CONTROLS	ALLEN-BRADLEY, SQUARE D, GENERAL ELECTRIC
263	MOTORS	BALDOR VARIABLE SPEED, BALTIMORE, BAC, S.S GE
264	OTHER FILTERS	AMERICAN, FLORENCE, FAN & TRIDERN
265	PUMPS	TACO, BELL & GOSSETT, ARMSTRONG,
266	ENERGY MANAGEMENT SYS	SIEMENS BUILDING TECH SYS 900 APOGEE
267	HVAC GRAVITY ROOF VENT	COOK, GREENHECK
268	GAS FIRED PACKAGE CONDENSING BOILERS	RAYPACK, LOCKINVAR
269	INFRARED GAS RADIANT HEATERS	SUNPAK, SUPERIOR RADIANT PRODUCTS
270	ROOF EXHAUST FAN	COOK, GREENHECK
271	MECHANICAL SYSTEMS	
272	AIR COOLED CHILLER	CARRIER, YORK, TRANE, MCQUAY
273	AIR HANDLER UNITS	ENERGY LAB INC.
274	WATER TREATMEN	CLEARWATER SYS CO
275	BOILER-HOT WATER	LOCKINVAR, RAYPACK, PARKER
276	BOILER CONTROLS-STEAM	PARKER
277	CENTRIFUGAL AIR COOLED CHILLER	CARRIER, YORK, TRANE, MCQUAY
278	CHILLER ABSORBTION CHILLER	CARRIER, YORK, TRANE, MCQUAY
279	CHILLER-GENERAL	CARRIER, YORK, TRANE, MCQUAY
280	OTHER ABSORBTION CHILLER	CARRIER, YORK, TRANE, MCQUAY
281	SCREW-TYPE AIR COOLED CHILLER	CARRIER, YORK, TRANE, MCQUAY
282	SCREW-TYPE WATER COOLED CHILLER	CARRIER, YORK, TRANE, MCQUAY
283	WATER-COOLED	CARRIER, YORK, TRANE, MCQUAY
284	WATER-COOLED CHILLER	CARRIER, YORK, TRANE, MCQUAY
285	WATER SOURCE HEAT PUMP UNITS	MCGUAY
286	FANS-ROOF, WALL & CEILING MOUNTED	
287	GENERAL	DAYTON, COOK OR APPROVED EQUAL
288	DIV. 26: ELECTRICAL	
289	RESTROOM ELECTRICAL	

290	KEYED LIGHT SWITCHES	HUBBELL HBL EXTRA HEAVY DUTY INDUSTRIAL LOCKING SERIES, BACK AND SIDE WIRED 15A, 120-277V AC; OR LEVITON EXTRA HEAVY DUTY SPECIFICATION GRADE KEY LOCKING SWITCHES.
291	LIGHT FIXTURES	A. VANDAL-RESISTANT CONSTRUCTION PREFERRED B. LISTED FOR DAMP OR WET LOCATIONS. C. LED
292	LIGHTING/INDOOR-OUTDOOR	
293	ATHLETIC FIELD	MUSCO
294	PARKING LOT	LED BY GE, LITHONA, ASL
295	VANDAL PROOF LIGHTING FIXTURES	LED BY EATON, LAMAR, LUMINAIRE
296	LIGHTING SUPPLIES	
297	BALLASTS	GE, SYLVANIA, PHILLIPS
298	LIGHT BULBS, FLOURESCNETS T-8'S	GE, SYLVANIA, PHILLIPS
299	NEW CONSTRUCTION	LED BY GE, LITHONIA, ASL
300	ELECTRICAL EQUIPMENT	
301	VARIABLE FREQUENCY DRIVES	ABB, DANFOSS
302	DRY TYPE TRANSFORMERS	WESTINGHOUSE, SQUARE D
303	GENERAL LIGHT SWITCHES	LEVITON, HUBBELL
304	GENERAL RECEPTACLES	LEVITON, HUBBELL
305	GENERAL SAFETY SWITCHES	GE, SQUARE D
306	HIGH & MEDIUM VOLTAGE TRANSFORMERS	STANDARD GENERAL DRY-TYPE-SQUARE D
307	LIGHTING CONTROL PANELS	LCD, GR 1400 SERIES, BLUETRON
308	LOW VOLTAGE & TELECOM CONDUCTORS	APPROVED NEC COPPER CONDUCTORS ONLY- THHN/THWN
309	LOW VOLTAGE TRANSFORMERS	SQUARE D
310	MAGNETIC MOTOR STARTERS	SQUARE D
311	MAIN DISTRIBUTION CONDUCTORS	XLP OR EPR (COOPER CONDUCTORS ONLY)
312	MAIN DISTRIBUTION SWITCHBOARDS	SQUARE D
313	MAIN SWITCHBOARD	G.E. SQUARE D, SELECTION TO MATCH EXISTING
314	MCC (MOTOR CONTROL CENTERS)	SQUARE D
315	PANELBOARDS	SQUARE D, GE, CUTLER-HAMMER, SIEMENS
316	SECONDARY DISTRIBUTION CONDUCTOR	APPROVED NEC COPPER CONDUCTORS ONLY- THHN/THWN
317	SOFT START MOTOR STARTERS	GE, SQUARE D, SIEMENS.
318	SUBSTATIONS	STANDARD GENERAL DRY-TYPE-SQUARE D
319	TERMINAL AIR UNITS VAV'S	TITUS, KRUEGER OR CAMPUS APPROVED EQUIVALENT
320	ELECTRICAL FIXTURES	
321	INTERIOR ELECTRICAL LIGHT FIXTURES	LED BY GE, LITHONIA, HUBBELL
322	LIGHT SWITCHES & SENSORS	"WATT STOPPER", LEVITON
323	EXIT SIGNS	LED, ACTIVE SAFETY™, SPECTRON, OR EQUAL
324	EXTERIOR LIGHTS	BEGA LIGHTING
325	TIME CLOCKS - TIME SWITCHES	LC&D, BLUETRON

326	STORAGE/TRANSFER	HP, DELL, SIEMEN'S, CISCO...SEE I.T. STANDARDS
327	TELEPHONE SYSTEM	CISCO VOIP SYSTEMS, SEE I.T. STANDARDS
328	ELECTRICAL VEHICLES AND CHARGERS	
329	CHARGER MFR	GE, ABB, BOSCH
330	VEHICLE MFR	TAYLOR DUNN, HONDA
331	EMERGENCY POWER SYSTEMS	
332	ENERGY MANAGEMENT	SEIMENS
333	GENERATORS	CATERPILLAR
334	UPS	LIEBERT, APC
335	CLOCK SYSTEMS	AMERICAN TIME (EXISTING)
336	DIV. 27: COMMUNICATIONS	*Licensing: ALL Div. 27 and Div. 28 (IT devices) requiring licenses MUST INCLUDE ALL REQUIRED LICENSES BY CONTRACTOR CFCI. CONTRACTOR SHALL NOT ASSUME LICENSES ARE PROVIDED BY THE COLLEGE.
337	27 05 00 - COMMON WORK RESULTS FOR	COMMUNICATIONS
338	CABLE RUNWAY & LADDER RACK	CHATSWORTH PRODUCTS, PANDUIT, EATON
339	FIRESTOPPING	STI EZ PATH, HILTI SPEED SLEEVE
340	27 10 00 - STRUCTURED CABLING	
341	FLOORMOUNT RACKS	CHATSWORTH PRODUCTS, EATON, APC
342	WALLMOUNT RACKS & CABINETS	CHATSWORTH PRODUCTS, APC, COOPER B-LINE, MIDDLEATLANTIC, HOFFMAN
343	CABLE MANAGERS	SAME AS RACK
344	BDF/IDF UNINTERRUPTIBLE POWER SUPPLIES	APC SMART-UPS 5KVA, EATON 9PX 5KVA (INPUT: L6-30; OUTPUTS: L6-30R/L6-20R), Use 208V cords for auto-sensing equipment (e.g. Cisco 9300 switches). Use stepdown transformer only if L5-20R and/or 5-20R UPS required by power supplies.
345	MDF UNITERRUPTIBLE POWER SUPPLIES	APC GALAXY VS, Symmetra, EATON 93PM (HARDWIRED 480V)
346	POWER DISTRIBUTION UNITS	APC AP8641 AND AP9335TH and NBRK0250, EATON EMA107-10 AND EMP001 (WITH L6-30P INPUT PLUG, C13 and C19 sockets).
347	COPPER BACKBONE CABLING (25-PAIR)	GENERAL CABLE, ESSEX
348	FIBER BACKBONE CABLING SYSTEM	SUMITOMO FUTUREFLEX ABF ELECTRIC LIGHTWAVE, CORNING (LEGACY)
349	FIBER TERMINATION UNITS	SUMITOMO FUTUREFLEX ABF ELECTRIC LIGHTWAVE
350	COPPER HORIZONTAL CABLING	SIEMON Z-MAX 6A GROUNDED F/UTP, PANDUIT 6A GROUNDED F/UTP
351	DATA OUTLETS AND PATCH PANELS	SIEMON ZMAX, PANDUIT MINI-COM
352	FACEPLATES	SIEMON/PANDUIT (COORDINATE WITH WALL COLOR)
353	PATCH CABLES	SIEMON, PANDUIT (CAT6A F/UTP 28 AWG THIN)

354	SPLICE CASES	SUMITOMO FUTUREFLEX ABF TUBE SPLICE DEVICES, CORNING, 3M
355	BDF/IDF FIBER PATCH PANEL ENCLOSURES	CORNING CCH-04U, Sumitomo FT04L12
356	MDF FIBER PATCH PANEL ENCLOSURES (USE HIGH DENSITY)	CORNING EDGE-04U, Sumitomo FT04H48
357	BDF/IDF FIBER TERMINATION PLATE	Singlemode: Corning CCH-CS24-AE-P00RE, Sumitomo FTLC-FSP24TBFOS2 Multimode: Corning CCH-CS24-AD-P00QE, Sumitomo FTLC-FSP24TBFOM4
358	MDF FIBER TERMINATION PLATE	Singlemode: Corning ECM-RM12-04-89G, Sumitomo FTLC-MP12COS2-HD Multimode: Corning ECM-TM12-05-93Q, Sumitomo FTLC-MP12COM4-HD
359	LABELING	PANDUIT TURN-TELL AND PANDUIT COLOR BAND
360	27 20 00 - DATA COMMUNICATIONS	
361	BDF/IDF COPPER EDGE SWITCH	CISCO C9300-48UN, UXM (minimum 1 UXM per BDF/IDF)
362	INTERIOR WIRELESS ACCESS POINT	ARUBA 550 SERIES
363	OUTDOOR WIRELESS ACCESS POINT	ARUBA 570 OR 518 SERIES
364	27 30 00 - VOICE COMMUNICATIONS	
365	VOIP CALL MANAGER SYSTEM	CISCO UNIFIED COMMUNICATIONS MANAGER
366	VOIP WALL/DESK PHONE	CISCO 8841, 8851
367	PAGING/MASS NOTIFICATION HARDWARE	CISCO VOIP PHONE, ATLAS IP-SDMF
368	PAGING/MASS NOTIFICATION SYSTEM	SINGLEWIRE INFORMACAST
369	27 40 00 - AUDIO-VIDEO COMMUNICATIONS	
370	AUDIO VISUAL CONTROL SYSTEM	EXTRON
371	AUDIO VISUAL SWITCHER	EXTRON
372	PROJECTOR	EPSON, PANASONIC, NEC
373	PROJECTION SCREEN	DA-LITE
374	INTERACTIVE DISPLAY	VIEWSONIC, MICROSOFT, EPSON, SMART TECHNOLOGIES, PLANAR ULTRARES
375	LARGE FORMAT DIGITAL DISPLAYS	PLANAR, NEC, PANASONIC, SONY
376	LECTERN	SPECTRUM FREEDOM XRS, DWI ENTERPRISES
377	DOCUMENT CAMERA	EPSON, ALMO (models with both HDMI and USB output)
378	ASSISTIVE LISTENING DEVICE	LISTEN TECHNOLOGIES
379	MICROPHONE	SHURE
380	ANNOTATION DEVICE	SMART TECHNOLOGIES
381	CLASSROOM LIGHTING CONTROL	CRESTON, LUTRON
382	SPEAKERS	JBL (primary), EXTRON (ceiling tile replacement)
383	PC COMPUTERS	HP ELITE SERIES
384	LECTURE CAPTURE	PANOPTP, ENSEMBLE
385	DIV. 28: ELECTRONIC SAFETY & SECURITY	
386	28 10 00 ELECTRONIC ACCESS CONTROL	

387	CARD READERS	HID GLOBAL SIGNO READER STANDARD PROFILE WITH TERMINAL STRIP (USE RS-485 CABLE FOR OSDP COMMUNICATION)
388	CREDENTIALS	HID Global 5006PGGAN with LACCD Corporate 1000 Format: H800003
389	ACCESS CONTROL WIRING	BELDEN 658GMS BANANA CABLE AND CAT6A F/UTP (2 DATA DROPS REQUIRED PER CARD READER OR DOOR CONTACT LOCATION)
390	ACCESS CONTROL PANEL	LENEL LNL-X4420
391	POWER SUPPLY AND ENCLOSURES	LIFESAFETY POWER FPO150/250-3D8P2M8NL4E8M2/P16 WITH BDM OR FPO250/250/250-8M8PNLXE12M/P24 WITH BDM
392	DOOR POSITION SWITCH	SCHLAGE 7764
393	REQUEST TO EXIT SENSOR	BUILT INTO LOCKSET (MOTION DETECTION REX ARE NOT ACCEPTABLE)
394	ELECTRONIC LOCKDOWN BUTTON	STI SS2026LD-EN with 6/18 cable to Access Control Panel
395	PHYSICAL ACCESS CONTROL SYSTEM	LENEL ONGUARD ENTERPRISE
396	28 20 00 ELECTRONIC SURVEILLANCE	
397	IP SECURITY CAMERA 90 DEGREE	AXIS COMMUNICATION P3248-LVE
398	IP SECURITY CAMERA 180 DEGREE	AXIS COMMUNICATION Q3819-PVE
399	IP SECURITY CAMERA 360 DEGREE	AXIS COMMUNICATION Q6100-E, Q6010-E, P3719-PL
400	IP SECURITY CAMERA PAN/TILT/ZOOM	AXIS COMMUNICATIONS Q6078-DE, Q6128-E, Q6135-LE
401	IP SECURITY CAMERA ELEVATOR	AXIS COMMUNICATION P9106-V
402	IP SECURITY CAMERA LICENSE PLATE READER	AXIS COMMUNICATIONS Q1700-LE
403	EXTERIOR CAMERA MOUNTS	WALL: AXIS T91D61 POLE: AXIS T91B67 CEILING: AXIS T91B50 PARAPET: AXIS T91D62 CORNER: AXIS T91A64
404	VIDEO MANAGEMENT SERVER	BCD VIDEO BCD212XH-MGMT-SRV-LACCD
405	VIDEO RECORDING SERVER	BCD VIDEO BCD215XH-EVS-LACCD-180T
406	VIDEO MOBILE STREAMING SERVER	BCD VIDEO BCD212XH-MOBILE-LACCD
407	VIDEO WORKSTATION	BCD Video BCD-H-I9-TWS-LACCD
408	VIDEO MANAGEMENT SYSTEM SOFTWARE	MILESTONE XPROTECT CORPORATE
409	28 30 00 - ELECTRONIC DETECTION AND ALARM	
410	ALARM MONITORING SYSTEM	LENEL ONGUARD ENTERPRISE
411	PANIC BUTTONS	CISCO VOIP PHONE, BOSCH ISC-PB1-100
412	MOTION DETECTOR	CEILING: BOSCH DS9370 WALL: BOSCH ISC-PDL1-WAC30G
413	GLASSBREAK DETECTOR	BOSCH DS1103I
414	ALARM CONTROL PANEL	BOSCH B9512G
415	ALARM KEYPAD	BOSCH B942 TOUCHSCREEN
416	TOWER EMERGENCY PHONE	TALK-A-PHONE WEBS-MT/R-OP4-OP2 WITH VOIP-500E
417	WALLMOUNT EMERGENCY PHONE	TALK-A-PHONE ETP-WMS WITH VOIP-500E
418	FIRE ALARM SYSTEM	
419	GENERAL	EDWARDS (EST 3)
420	FIRE ALARM PULL STATION	EST CAT 45 KEY
421	SPEAKER/STROLL AMBER ALERT	EDWARDS
422	DATA CENTER AIR CONDITIONING	DATA AIRE
423	SIGNAGE/IDENTIFICATION DEVICES	

424	Interior Building Signs	See the latest wayfinding and signage standards
425	Exterior and Architectural Signs	See the latest wayfinding and signage standards
426	Pedestrian and Map Signs/Display	See the latest wayfinding and signage standards
427	Roadway, Vehicular and Parking Signage	See the latest wayfinding and signage standards
428	Room Signs	See the latest wayfinding and signage standards
429	DIV. 32: EXTERIOR IMPROVEMENTS	
430	IRRIGATION SYSTEMS	
431	IRRIGATION CONTROL SYS	RAINBIRD
432	IRRIGATION	HUNTER 540-4" POP-UP SPRINKLER HEADS
433	IRRIGATION	HUNTER I-40 HEADS
434	IRRIGATION	HUNTER I-20 HEADS
435	IRRIGATION	RAINBIRD ELECTRIC REMOTE CONTROL VALVES
436	IRRIGATION	SCHEDULE 80 PVC PIPE
437	IRRIGATION	SCHEDULE 80 SOCKED WELD FITTINGS
438	IRRIGATION SYSTEMS	RAINBIRD
439	ANTI GRAFFITI FILMS	3M
440	PAVEMENT MARKINGS	DUNN-EDWARDS
441	DIV. 33 UTILITIES	
442	STORM DRAIN UTILITY SYS	
443	CATCH BASINS	CHRISTY CONCETE PRODUCTS
444	TRENCH DRAINS	NDS