

Refer to ELAC & South Gate Educational Center- Campus Standards Matrix

Note: Campus preferences are indicated first followed by additional manufacturers which are being considered by the College and/or the District).

This Campus Standard Matrix is to be used as a guide. In case there is a valid need to deviate from these Standards, a request will need to be submitted in writing and a formal written approval will be required by the Campus Maintenance & Operations (M&O) and/or IT Department.

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

These design Standards are not to be deviated from and for the purpose of Value Engineering unless formally approved by M&O or IT.

	STANDARD	CAMPUS ALTERNATIVES
1	DIV. 07: THERMAL & MOISTURE PROTECTION	
2	ROOFING	
3	GENERAL	Modified Bitumen 30-yr Warranty, 4- ply. Build-up roof multi-ply Garland, Tremco or Johns Manville Corporation,
4	FIREPROOFING	
5	GENERAL	Monokote, KAFCO, PDI
6	DIV. 08: OPENINGS	
7	DOORS & FRAMES	Metal doors and frames required
8	HARDWARE	
9	KEYS	BEST SFIC Cores 1CK7B21-626, BEST 1AK1B21 NiAg Key Blanks
10	CYLINDERS	BEST 1E72, 1E74 (sole-source allowed) NOTE: If Lockdown type hardware, then use Schlage "F" on the inside.
11	LEVER LOCKSETS	SCHLAGE "ND" RHODES, L9000-06-626 finish is satin chrome (ND Cylindrical "L: lock-mortise)
12	CABINET LOCKSETS	OLYMPUS NOTE: Required at all cabinet door & drawers
13	HINGES	HAGER, IVES, MARKAR 300 SERIES, CONTINUOUS SS
14	EXIT DEVICES	VON DUPRIN-98 SERIES, CD, XP @ EXTERIOR AX (ADA Panic Device series)
15	KEY REMOVABLE MULLION POST for double door exit device opening	(NON FIRE) VON DUPRIN KR4954, (FIRE RATED) VON DUPRIN KR9954
16	CLOSER	LCN-4040 EDA or HEDA, XP, Swing to Wall
17	ADA COMPLIANT PEDESTRIAN SWING DOOR OPERATOR	Record 8100 series automatic door opener, surface mount installed application, for doors weighing less than 350 LBS.
18	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 NOTE: Required at all building entries, classroom doors (if more than one door, then one required), all building utility rooms (electrical, mechanical, BDF/IDF, Janitorial closets), staff restrooms, staff/faculty offices.
19	ELECTRIC STRIKES: RIM EXIT DEVICES	HES -9500 FRAME MOUNTED, HES-9600 MULLION MOUNTED

20	ELECTRIC CYLINDRICAL LOCKS	HES 8300 ,field modification, NOTE: NO cutting Fire Door frame shall be PERMITTED
21	ELECTRIC STRIKES : MORTISE LOCKS	HES 1006, field modification, NOTE: NO cutting Fire Door frame shall be PERMITTED
22	KEY SYSTEMS	BEST KABA PEAKS 7-PIN
23	DIV. 09: FINISHES	
24	FLOOR/ WALL FINISHES	
25	CARPET	Tandus 36X36 (District contract in effect)
26	RESILIENT FLOORING	FORBO, Estri, <i>Armstrong, Mannington, Parterre, International</i>
27	CARPET MODULES	Tandus 36X36 (District contract in effect)
28	RESILIENT TILES/SHEET FLOORING	FORBO, Estri, <i>Armstrong, Mannington, Parterre, International</i>
29	HARD SURFACE (GYMNASIUM)	MONDO, <i>Aacer, Noble House, Teraflex,</i>
30	WALL BASE	Roppe, <i>Burke</i>
31	RAISED FLOORING SYSTEMS	Tate, <i>Interface AR, Maxcess, Smith</i>
32	PORCELAIN TILE-CERAMIC	Specific to design standard
33	WALL COVERINGS	Ultra Hide, <i>Vista Paint, Benjamin Moore</i>
34	PAINT	Vista, Dulux, ICI, <i>Dunn Edwards, Frazee, Sherwin Williams</i>
35	COATINGS	Dulux, ICI, <i>Master Coating, Technologies, Scuffmaster</i>
36	CEILING SYSTEMS	
37	ACOUSTICAL TILE	Armstrong, <i>USG, Statfor, Acousticolor 2X4 preferred</i> NOTE: Required 2x4 tiles
38	GRID SYSTEM	Armstrong, <i>USG, Stratford, AcoustiColor 2X4 preferred</i>
39	DIV. 10: SPECIALTIES	
40	SOAP & PAPER TOWEL DISPENSERS	CLEA, <i>BRADLEY, BOBRICK</i>
41	HAND DRYER	BOBRICK, Trim Line-Surface-Mounted ADA dryer B-7120 (22-ga mild steel zinc plated w/ high-gloss white epoxy paint finish), Xlerator (ADA compliant), Saniflow (ADA compliant)
42	BATHROOM PARTITIONS	BOBRICK, Bradley, Trespa, Santana, Flush metal, Accurate NOTE: Required Water & Fire Resistant, Solid Color Reinforced Composite.
43	RESTROOM ACCESSORIES	BOBRICK, Bradley, Xlerator, American
44	LOCKERS	Debourgh, Lyon, Penco, Republic
45	STORAGE/TRANSFER	Tyga-Box System or EQUAL
46	FIRE EXTINGUISHERS/ CABINET W/LOCKS	
47	GENERAL	Larsens, Potter Roeme, JL Industries (KEY # LL24 NOTE: Required Semi or fully recessed cabinets
48	DIV. 11: EQUIPMENT	
49	FOOD SERVICE EQUIPMENT	Hobart, <i>Wolfe, Dwyer</i>
50	KITCHEN, APPLIANCES	KitchenAid, <i>Frigidaire, Samsung, Chambers,</i>

51	DIV. 12: FURNISHINGS	
52	BLEACHERS	
53	INTERIOR, GYMNASIUM, TELESCOPIC, STND.	Irwin Telescopic, Studisteel, Southern Bleacher Company
54	WINDOW COVERING	
55	SOLAR SHADE	Mecho Shade, <i>Levolor, Suntec</i>
56	BLINDS - VERTICAL/ HORIZONTAL	Levelor, <i>Rivera, Hunter-Douglas</i>
57	BIKE RACK	
58	GENERAL	Brandir, Cycloops (frames to be of a lockable design)
59	DIV. 13: SPECIAL CONSTRUCTION	
60	MODULAR STRUCTURES	GE, Capital, Williams Scotsman, Aurora
61	DIV. 14: CONVEYING EQUIPMENT	
62	STANDARD ELEVATORS	Mitsubishi, Thyssen Krupp (Dover), Kone, Schindler
63	ELEVATOR CAMERA	Sony, Panasonic, (analog) NOTE: Required in every elevator cab, including service elevator
64	CONTROLLER	MOTION CONTROLS..... NOTE: Required that controls are universal & no proprietary.
65	ELEVATOR DOORS	GAL DOOR EQUIPMENT
66	ELEVATOR CAB LIGHT FIXTURE	ERIM FIXTURES
67	WHEELCHAIR LIFTS	Mitsubishi, Thyssen Krupp (Dover), Garaventa
68	EXIT STAIR EVACUATION CHAIRS	Garaventa Evacuation chairs, EVACU-TRAC CD7 or better NOTE: Required at every exit stair, every floor.
69	DIV. 21: FIRE SUPPRESSION	
70	HYDRANTS	James Jones or EQUAL
71	DIV. 22: PLUMBING	
72	PIPE	
73	DOMESTIC, /POTABLE	C900 BLUE, COPPER K, #80 PVC
74	UNDERGROUND WATER IRRIGATION PIPING	Schedule 40 and Schedule 80 PVC ½" TO 3"
75	UNDERGROUND SANITARY PIPING	CAST IRON, SDR-35
76	ABOVE GROUND SANITARY PIPING	CAST IRON TYLER PIPE/DWV COPPER
77	PIPE TUBING AND FITTINGS	C-900, MEGA LUG FTGS APPROVED CI CONN FLANGE
78	STEEL PIPE FUEL GAS/NATURAL GAS	BLACK SCH 40 INDOOR ONLY W/ SIMILAR FTGS
79	STEEL PIPE WATER OR AIR	Galvanized Domestic Only NO SUBSTITUTE
80	BRASS PIPE	Red Brass, Schedule 40
81	COPPER TUBING	Type "K" or "TYPE L" GRADES ONLY, NO "M", No Substitutes
82	BRASS SCHEDULE 40 SOLDER JOINT FTG's	Domestic
83	SCREWED FITTINGS	Domestic
84	GAS PIPING UNDERGROUND	POLY PIPE, STEEL TRANSITION, YELLOW TRACER WIRE, BUTT FUSION OR SOCKET
85	BUILDING DRAIN, WASTE & VENT	CAST IRON NO HUB, NO HUB COUPLINGS, CAST IRON, FTGS./DWV COPPER (Domestic ONLY)
86	PIPE AND FITTINGS	Standard D2751-88 Cast Iron, no-hub pipe and fittings (waste) (Domestic ONLY)

87	PLUMBING FIXTURES	
88	TOILET FIXTURES (Low Flow, Viterous China)	American Standard, <i>Zurn, Kohler</i> , 1.28 GPF (Sloan valves-#111-1.280ES0S-YO Royal Optima)
89	SINKS	American Standard, <i>Kohler, Zurn</i> (Vitreous China Lavatories)
90	KITCHEN SINKS	Elkay, <i>Kohler, Zurn, Franke</i> (Stainless Steel) (or as determined acceptable by ELAC)
91	SERIVCE SINKS	Chicago Wall mount (Faucets & Sinks)
92	URINALS (Low Flow)	American Standard, <i>Sloan (vlave) Kohler (china porcelain)</i>
93	URINALS (Waterless)	Falcon, Kohler, Sloan (or as determined acceptable by ELAC) Subject to review by ELAC DO NOT USW
94	FAUCETS	Chicago/Brass Craft-automatic, OR MANUAL ONLY, NO ZURN OR SUBSTITUTE
95	FLUSH VALVES - TOILETS, URINALS	Sloan ONLY, MANUAL OR SENSOR...NO ZURN OR SUB, 1.28 GPF
96	DOMESTIC WATER HEATER	RHEEM, <i>BRADFORD WHITE</i> , Lochinvar
97	CIRCULATING PUMP	<i>GRUNDFOS</i> or <i>Honeywell</i> WITH EQUAL TIMERS IF NECESSARY/NO SUBSTITUTE
98	PLUMBING VALVES AND ACCESSORIES	
99	GENERAL	NIBCO, <i>Kohler, Sloan</i> , DOMESTIC PRODUCT ONLY, LEAD FREE WHERE APPLICABLE/ NO SUBSTITUTE
100	EXPANSION TANKS	AMTROL, <i>Watts</i>
101	BACKFLOW PREVENTERS	<i>Watts, Zurn/WILKINS</i>
102	EXTINGUISHERS/CABINETS	<i>Larsens, Potter Roeme, JL Industries</i> NOTE: Required Semi or fully recessed cabinets
103	CLEAN OUTS	<i>J.R. Smith, Zurn,</i>
104	FLOOR DRAINS	<i>J.R. Smith Model 2005Y (round top),</i>
105	TRAP PRIMERS	Sloan tail piece (use for system having low-flow fixtures) automatic or connect to flush valve
106	ROOF DRAINS	<i>J.R. Smith, Zurn, Josam</i>
107	BALL VALVES	NIBCO (BRASS, FULL PORT)
108	GATE VALVES	NIBCO (UNION BONNET, RAISED STEM)
109	GLOBE VALVES	NIBCO (BRASS)
110	CHECK VALVES	NIBCO (BRASS)
111	VALVES(WATER, BELOW GROUND)	STOCKHAM (CAST IRON FLANGED AWWA WITH OPERATING NUT)
112	BACKWATER VALVES	Zurn, JR Smith
113	DRAIN PUMPS	Well Pump, Peerless
114	PRESSURE REGULATOR	Watts
115	CHECK VALVES for 4" or larger line	Zurn
116	HOSE BIBB BOX	Stainless steel recessed w/ loose key handle, Acorn 8141/8102 NOTE: Required 2-3 exterior lockable hose bibs per elevation.
117	PISTON WATER HAMMER	MIFAB MWA Series
118	BOILER	Lockinvar, Raypack (NO Condensing Boilers)
119	EMERGENCY EYEWASH & SHOWER	
120	EMERGENCY EYEWASH & SHOWERS	<i>Haws, Bradley, Watersaver</i> NOTE: Required at every eye wash station.

121	WATER FOUNTAINS	
122	DRINKING	Haws, <i>Halsey Taylor</i> ,
123	DIV. 23: HEATING, VENTILLATION & AIR CONDITIONING (HVAC)	(MUST HAVE BACNET CONTROL PANEL TO TALK TO CAMPUS NETWORK)
124	A/C UNITS, ROOF MOUNTED	(GAS ELECTRICS/HEAT PUMPS)CARRIER, YORK & TRANE, Daikin (McQuay)
125	A/C UNITS WALL MOUNTED	BARD, HEAT PUMPS, TRANE
126	AIR HANDLERS – CUSTOM	TEMTRON, UNITED METAL PRODUCTS, TRANE, ENERGY LABS, Daikin (McQuay)
127	AIR HANDLERS	CARRIER, YORK, TRANE, Daikin (McQuay)
128	HVAC HYDRONIC CONTROL VALVE	BELIMO TWO WAY
129	HVAC HEATING & COOLING CONTROL VALVE	BELIMO PICCV TWO WAY WITH RESERVING SWITCH
130	HVAC HYDRONIC PIPE FLANGE ADAPTER CONNECTIONS	OMNI,
131	MOTORS	BALDOR, GE, DAYTON
132	PUMPS	PACO, BELL & GOSSETT, ARMSTRONG
133	COOLING TOWERS	BALTIMORE AIR COIL, <i>MARLEY</i> , <i>EVAPCO</i> (STAINLESS STEEL)
134	OTHER FILTERS	AMERICAN, <i>FAN & TRIDERN</i> , 3-M
135	BOILER CONTROLS-HOT WATER	Lockinvar, <i>Raypack</i> , <i>Parker</i>
136	BOILER CONTROLS-STEAM	Parker
137	FAN COILS DX	Carrier, York, Trane,
138	COMPUTER ROOM AC UNITS	APC, LIEBERT, DATA AIRE
139	CHILLED WATER FAN COILS	Carrier, York, Trane, McQuay, Daikin
140	AIR COOLED CHILLER	Carrier, York, Trane, McQuay, Daikin
141	CENTRIFUGAL WATER-COOLED CHILLER	Carrier, York, Trane, McQuay, Daikin
142	SCREW-TYPE AIR COOLED CHILLER	Carrier, York, Trane, McQuay, Daikin
143	SCREW-TYPE WATER COOLED CHILLER	Carrier, York, Trane, McQuay, Daikin
144	SCROLL-TYPE AIR COOLED CHILLER	Carrier, York, Trane, McQuay, Daikin
145	CHILLER-GENERAL	Carrier, York, Trane, McQuay, Daikin
146	ABSORBTION CHILLER	Carrier, York, Trane, McQuay, Daikin
147	OTHER ABSORBTION CHILLER	BROAD, THERMAX
148	VENTILATORS AND EXHAUST FANS	COOK, GREENHECK
149	FIRE SMOKE DAMPER	BELIMO W/ END SWITCH TO COMMUNICATE TO EMS, <i>RUSKIN AND KRUGER</i>
150	VARIABLE FREQUENCY DRIVES	ABB, DANFOSS, TOSHIBA (With BACnet compatibility)
151	HYDRONIC PIPING	CARBON STEEL, SCH 80, INSULATED PVC PERMA PIPE, THERMACOR AND ROVANCO
152	AIR CONIDITIONING THERMOSTAT	TOTAL LINE, 3-HEATING/2-COOL/HEATPUM/DIGTIAL 7 DAY PROGRAMMABLE PIN P 374-2800
153	THERMOSTAT LOCK BOX	HONEYWELL/LARGE OPQUE/PINTG 512B1007
154	DIV. 25: INTEGRATED AUTOMATION	
155	ENERGY MANAGEMENT SYSTEM	Alerton-Climatech (sole-source)

156	DIV. 26: ELECTRICAL	
157	ELECTRICAL FIXTURES	
158	INTERIOR LIGHT FIXTURES(florescent, LED, HID) No incandesce light fixture	Prudential, Lithonia, HE Williams, Lightolier
159	CONNECT WITH EMERGENCY LIGHTS	Alertron to emergency grid
160	EXIT SIGNS	LED, Active Safety™, Pentico, Lithonia, Exitronix
161	ELECTRONIC WIRELESS WALL CLOCKS	PRIMEX ONLY NO SUB
162	ELECTRICAL OUTLETS	NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
163	INTERIOR SUSPENDED LIGHTS	Prudential, Lithonia, Philips
164	LIGHTING/INDOOR-OUTDOOR	
165	VANDAL PROOF LIGHTING FIXTURES	Rude, Stanco, Sequoia, BE, Lucalux, Matalux
166	LANDSCAPING FIXTURES	
167	EXTERIOR LIGHTS-PARKING LOT	LED (Lamp wattage to match existing)
168	LIGHT SENSORS	"Watt Stopper", LUTRON
169	PARKING LOT	Philips, Gardco, Gullwing LED GL 13 & GL 18
170	ATHLETIC FIELD	Musco, <i>Morris, Lithonia</i>
171	ELECTRICAL EQUIPMENT	
172	MAIN SWITCHBOARD	Square D, GE, Cutler Hammer. Selection to match existing
173	MAIN DISTRIBUTION SWITCHBOARDS	Square D, GE, Cutler Hammer. Selection to match existing
174	DRY TYPE TRANSFORMERS	Square D, GE, Cutler Hammer.
175	MAGNETIC MOTOR STARTERS	Square D, GE, Cutler Hammer.
176		Dialog Plus Controller
177	SOFT START MOTOR STARTERS	Square D, GE, Cutler Hammer.
178	PANELBOARDS	Square D, GE, Cutler Hammer.
179	MCC (MOTOR CONTROL CENTERS)	Square D, GE, Cutler Hammer.
180	DRIVES	ABB, <i>Toshiba, Square D</i>
181	ELECTRICAL FINISH FACE PLATES	STAINLESS FINISH PLATES
182	ELECTRIC VEHICLES/ CHARGERS	
183	ELECTRICAL VEHICLES AND CHARGERS	Taylor Dunn, <i>Honda, Club Car Precedent</i>
184	CHARGER Mfr	Taylor Dunn, <i>Honda, Amstron</i>
185	EMERGENCY POWER SYSTEM-GRID MATRIX	
186	CONNECT WITH SUMP PUMPS	Alertron to emergency grid
187	CONNECT WITH CO2 SENSORS	Alertron to emergency grid
188	CONNECT WITH EMS/CMMMS	Alertron to emergency grid
189	EMERGENCY MANAGEMENT SYSTEM	
190	EMERGENCY MANAGEMENT SYSTEM	Alerton-Climatech
191	ENERGY MANAGEMENT SYSTEM	Alerton-Climatech
192	FIRE PROTECTION	
193	ELECTRONICS	Alerton
194	LIGHTING SUPPLIES	
195	LIGHT BULBS, FLOURESCNETS T-8's	Sylvania, GE, Phillips, 4100K, Min 80CRI, (Sylvania Preferred), LED
196	BALLASTS	Sylvania, <i>Phillips, GE</i> (Sylvania Preferred)
197	OTHER	
198	EMERGENCY POWER SYSTEMS	
199	GENERATORS	Onan, Caterpillar, APC, Kohler
200	UPS	APC, MGE, Schneider Electric

201	DIV. 27: COMMUNICATIONS	
202	27 05 00 COMMON RESULTS FOR COMM	
203	Structured Cabling System Warranty	Minimum 25 year warranty
204	27 05 26 GROUNDING & BONDING	
205	Bus Bar	Lyncote XIT, <i>Chatsworth, Hargar</i>
206	27 05 28 PATHWAYS FOR COMM SYSTEMS	
207	EMT Conduits & Couplings & Connectors	Appleton, Crouse-Hinds
208	Conduit Supports	Kindorf, Unistrut, Thomas & Betts
209	Hangers & Cable Ties	Chatsworth Products, Cooper B-Line, Caddy, Mono
210	Metal Outlet Boxes - Double Gang, Extra Deep	Appleton, <i>Raco, Steel City</i>
211	Pull Boxes and Cabinets	Hoffman Enclosures, <i>Wire Guard</i>
212	Cable Tray	Cooper B-Line, <i>Panduit, Leviton</i>
213	27 05 43 UG DUCTS & RACEWAY FOR COMM	
214	Manholes	Utility Vault (Oldcastle), <i>Jensen, Brooks</i>
215	Pull boxes	Utility Vault (Oldcastle), <i>Jensen, Brooks w/ Spring Loaded LID</i>
216	MH/PB Hardware	INWESCO products
217	Conduits (Schedule 40 or Type C)	Carlon, Wiremold, Panduit
218	Detectable Warning Tape	Carlon
219	Pull, Rope 1700 lb tensile strength	Carlon
220	Bonding ribbon (In vaults)	INWESCO Cat 12A55
221	Bonding ribbon clamps (In vaults)	INWESCO Cat 12A56
222	Fargo Clamp	INWESCO Cat 12A57
223	Ground Rod	INWESCO Cat 12A60
224	Ground Inserts (Cast Bronze)	INWESCO Cat 12H69
225	Manhole Lids	Alhambra Foundry, <i>OPW manhole</i>
226	Manhole Ladders	Alhambra Foundry - Model A-3382 w/ A3383 Support bar
227	27 11 00 COMM EQUIP. ROOM FITTINGS	
228	Ladder Racks	Chatsworth Products, <i>Homaco, Square D</i>
229	Equipment Racks	APC NetShelter, <i>SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter SV</i>
230	Wall-Mounted Cabinets	Cooper B-Line DAMAC
231	Horizontal Managers	SIEMON WM - 145-5, <i>Chatsworth, Ortronics and APC</i>
232	Fiber Optic Terminals (FOT's)-Housing	SIEMON RIC-3-72-01, <i>SIEMON RIC 3-48-01, SIEMON RIC 3-36-01, LIGHTSTACK LS-1V-01, LS-4V-01</i>
233	Fiber Terminal Adapters and Connectors	SIEMON RIC-FLC6-01, <i>LIGHTSTACK LS-12-LC-5V-01, LIGHTSTACK LS-12-LC-SM-01</i>
234	Plywood	Arch. Wood Protection, <i>Chemco, National Plywood Industries</i>
235	Fire Retardant Paint	Flamort Co., Inc., <i>FireNoMore International,</i>
236		International Fire Retardants, Inc. or EQUAL
237	Patch panels	SIEMON ZXAS-PNL (F)-V48K, <i>TERA Z6AS-PNL (A)-U48K, ZMAX ZSPNLAV48E</i>
238	Cable Tags & Splice Labels	3M, <i>Panduit, Tech Products</i>
239	Protector Panels	Circa, <i>Emerson, CommScope, Cook</i>

240	27 13 00 COMM BACKBONE CABLING	
241	Fiber Tube Cable (OSP and Riser)	Sumitomo Electric FutureFLEX or equal
242	Fiber Cable - OSP and Riser	Sumitomo Electric FutureFLEX ABF-50U OM4 or equal
243	Copper OSP Cable	General Cable, <i>Superior Essex</i> , CommScope
244	Splice Cases - Outside	Preformed, 3M, <i>PSI</i>
245	Splice Cases - Inside	Reliable, 3M
246	Splice Bay & Relay Labels	3M, 5000 Scotchlite Decal System
247	ABF Tube Clips	Sumitomo Electric FutureFLEX
248	27 15 00 COMM HORIZONTAL CABLING	
249	Station Cabling	SIEMON 9T7R4E1006R1, TERA E109T7P4E1006R1, ZMAX 6AF-UTP-9A6P4A506RIA
250	Jacks	SIEMON Z6ASK01, TERA T7F011, ZMAX Z6ASK03
251	Faceplates	SIEMON, TERA, ZMAX
252	Emergency Phone (Blue light)	Talk-A-Phone ETP-WM & ETP-MT/R bases w/ VOIP 500D NOTE: Required - parking structures: 4-min. per floor, surface parking lots at every 50 ft radius (250 LF max from source)
253	Elevator Phone	Talk-A-Phone VOIP 500D or as current future upgrade
254	CLASSROOM VOIP INTERCOM	Valcom, Algo, Cyberdata, 2N
255	27 40 00 AUDIO VISUAL	
256	CONTROL SYSTEM	UTELOGY, CRESTRON DIGITAL MEDIA,
257	PROJECTOR	PANASONIC, NEC-Minimum 1920 x 1080 resolution, Laser/LED, HDBase T Connectivity 2-power 200m Lens w/ image shift in all directions
258	PROJECTOR SCREEN	DA-LITE, ELITE, Draper
259	LECTERN	SPECTRUM FREEDOM XRS, FORBES-AV, VREM AV, Spectrum Masters lectern
260	DOCUMENT CAMERA	WOLFFVISION, HoverCam, SAMSUNG,
261	MICROPHONE	SHURE
262	NETWORK SWITCH	Cisco Catalyst 3850 IP Based-POE+, upgradable to latest technical advances
263	ANNOTATION DEVICE	SMART TECHNOLOGIES
264	INTERACTIVE DISPLAY	SMART TECHNOLOGIES Smart Technologies, Epson, Panasonic
265	CLASSROOM LIGHTING CONTROL	CRESTON, LUTRON
266	SPEAKERS	JBL, Extron, Crestron
267	PC COMPUTERS	HP ELITE SERIES
268	LECTURE CAPTURE	Ensemble
269	ELECTRONIC QUEUEING SYSTEM	Q-Matic, Q-Less
270	DIV. 28: ELECTRONIC SAFETY & SECURITY	
271	28 10 00 ELECTRONIC ACCESS CONTROL	
272	Card Readers	HID ICLASS SE contactless smart card (R40 type) - no sub. Requires ICLASS Standard Compatibility, 920NTNTEK00000 (Typical model) w/ a "request to exit" device
273	Software	Lenel OnGuard
274	Controllers	Lenel OnGuard. LNL 3300

275	28 20 00 ELECTRONIC SURVEILLANCE	
276	CCTV Cameras	High Definition/MEGA Pixel Axis P-Series + Q-Series w/zipstream
277	ANALOG VIDEO to IP ENCODER	AXIS: Q74 Series
278	System Server	Lenel Enterprise NVR
279	Recording System	NETAPP FAS2240 or newer
280	WIRELESS ACCESS POINTS	
281	Indoor Access Points	Cisco Aironet 3800 Series
282	Outdoor Access Points	Cisco Aironet 3802E Series W/NEMA 4 ENCLOSURE + Ext antennas
283	NETWORK SWITCHES	
284	Data Switches	Cisco Catalyst 3850 IP Based-POE+
285	FIRE ALARM SYSTEM	
286	GENERAL	Edwards (EST 3) with Mass Notification
287	FIRE ALARM PULL STATION	EST CAT 45 KEY
288	SPEAKER/STROLL AMBER ALERT	EDWARDS W/ MASS NOTIFICATION
289	DIV. 32: EXTERIOR IMPROVEMENTS	
290	IRRIGATION SYSTEMS	
291	IRRIGATION CONTROLLER	Toro TMC-424E Series, Irritol TMC 424 Series
292	CONTROLLER REMOTE SITE MANAGEMENT	Toro TriComm Site Management
293	CONTROLLER HAND-HELD REMOTE CONTROL	Toro TMR-1
294	CONTROLLER ENCLOSURE	V.I.T. Strong Box SB-xxSS with QP, CSA, RGVRS Options
295	RAIN SENSOR	Toro TRS
296	CONTROL WIRE - COMMON	Paige P7001D 12 AWG White
297	CONTROL WIRE - HOT	Paige P7001D 14 AWG Colored
298	WATERPROOF WIRE CONNECTOR	Spears DS-500 Dri-Splice
299	GROUNDING ROD	Paige 182007 with Paige 1820037P Connection
300	DIELECTRIC CONNECTION	Approved by Electrical Engineer
301	BOOSTER PUMP	Barrett Irriboost with Variable Speed Drive and SS Enclosure
302	BASKET STRAINER	Yardney SBx-T Series, Purple
303	BASKET STRAINER ENCLOSURE	V.I.T. Strong Box SBBC-xxSS with QP Option
304	PRESSURE REGULATOR	Wilkins 500 Series
305	MASTER VALVE	Toro 220 Brass or Toro P-220S Plastic, or Rainbird P220 Brass series with Pressure regulator
306	FLOW SENSOR	Toro TFS Series
307	FERTILIZER INJECTOR	EZ-FLO EZ Series
308	GATE VALVE (2" and SMALLER)	Nibco T-113 Series
309	GATE VALVE (2 1/2" and LARGER)	Nibco F-619-SON Series
310	BALL VALVE (2" and SMALLER)	Nibco T-585-70 Series
311	AIR RELEASE VALVE	Cla-Val #33-A Series
312	QUICK COUPLING VALVE	Rain Bird #44-NP or TORO #44 NP Series
313	ELECTRIC CONTROL VALVE	Toro 220 Brass, Toro P-220S Plastic, or Rainbird P-220 brass series
314	DRIP ZONE VALVE KIT	Toro TPV Series
315	VALVE BOX	NDS Pro Plus Series (green plastic with purple bolt-down cover)
316	MAINLINE PIPING (6" and LARGER)	Pacific Plastics or equal CL200 PVC Gasketed - Purple
317	MAINLINE PIPING (2" - 4")	Pacific Plastics or equal CL315 Solvent-Weld PVC - Purple

318	MAINLINE PIPING (1 1/2" and SMALLER)	Pacific Plastics or equal SCH 40 Solvent-Weld PVC – Purple or Sch 80 PVC
319	LATERL LINE PIPING	Pacific Plastics or equal SCH 40 Solvent-Weld PVC – Purple, or SCH 80 PVC
320	PIPE / WIRE SLEEVING	Pacific Plastics or equal SCH 40 Solvent-Weld PVC
321	PIPE FITTINGS (MAINLINE)	Spears or equal SCH 80 PVC
322	PIPE FITTINGS (LATERAL LINES)	Spears or equal SCH 40 PVC
323	ARTIFICIAL TURF COOLING SYSTEM HEADS	Toro TS90TP Series
324	LARGE TURF ROTOR HEADS	Toro TR70P Series
325	MEDIUM ROTOR HEADS	Toro T5 Series
326	SMALL ROTOR HEADS	Toro 570Z-PRX-COM-E with Tor Precision Rotating Nozzle
327	FIXED SPRAY HEADS	Toro 570Z-PRX-COM-E with Toro Precision Spray Nozzle
328	FLOOD BUBBLER	Toro 570Z-PRX-COM-E with Toro FB-PC Nozzle
329	TREE ROOT WATERING SYSTEM	Rain Bird RWS Series
330	DRIP LINE SYSTEMS	Toro DL2000 RGP-xxx-xx-E Series
331	DRIP SYSTEM FITTINGS / ACCESSORIES	Toro - Miscellaneous
332	LANDSCAPE DESIGN	
333	LARGE TREES	Ceadrus deodora, Deodar cedar
334		Platanus racemosa, California sycamore
335		Quercus agrifolia, Coast live oak
336	MEDIUM TREES PRIMARILY FOR SHADE	Cinnamomum camphora, Camphor tree
337		Jacaranda mimosifolia, Jacaranda
338		Liriodendron arnoldii, Tulip tree
339		Platanus acerifolia 'Yarwoodii', Yarwood plane tree
340		Podocarpus gracilior, Fern pine
341		Quercus ilex, Holly oak
342		Ulmus parvifolia 'Drake', Drake Chinese elm
343	SMALL TREES FOR FLOWERS & FRAGRANCE	Agonis flexusa, Pepermint tree
344		Arbutus 'Marina', Marina strawberry tree
345		Bauhinia 'Blakeana' Hong Kong orchid tree
346		Callistemon viminalis, Weeping bottle brush
347		Cassia leptophylla, Gold medallion tree
348		Eucalyptus erythricorys, Red cap gum
349		Eucalyptus torquata, Coral gum
350		Lagerstromia indica, Crape myrtle
351		Laurus nobolis, Sweet bay
352		Lyonothamus asplenifolius, Catalina ironwood
353		Magnolia "Little gem', Little gem magnolia
354		Pistacia chinensis, Chinese pistace
355		Tabebuia lpe, Pink trumpet tree
356	PALMS	Brahea armata, Mexican blue palm
357		Chamaerops humilis, Meditteranean fan palm
358		Cycas revoluta, Sago palm
359		Trachycarpus fortunei, Winmill palm
360		Washingtonia filifera, California fan palm
361		Washingtonia robusta, Mexican fan palm

362	SHRUBS INACTIVE AREAS	Achillea sp., Yarrow
363		Arctostaphylos 'Sunset', Sunset manzanita
364		Berberis 'Golden abundance' Oregon grape
365		Carpenteria Calif., Bush anemone
366		Fremontedendron 'California gold', California fremontia
367		Garrya elliptica, Coast silk tassle
368		Heteromeles arbutifolia, Toyon
369		Heuchera sp., Alum root
370		Penstemon 'Margarita BOP', Penstemon
371		Rhamnus calif. 'San Bruno's mound', Coffeeberry
372		Rhus integrifolia, Lemonade berry
373		Ribes sanguineum, Pink flowering currant
374		Ribes viburnifolium, Catalina evergreen currant
375		Romneya coulteri, Matilija poppy
376	SHRUBS IN IRRIGATED AREAS	Agave attenuata, Fox tail agave
377		Anigozanthus sp., Kangaroo paw
378		Baccharis pilularis 'Pigeon point', Coyote bush
379		Callistemon 'Little John' Little John bottlebrush
380		Cistus sp., Rockrose
381		Coelonema pulchrum, Pink breath of heaven
382		Cotoneaster sp., Cotoneaster
383		Elaeagnus pungens, Silverberry
384		Hemerocallis sp., Daylily
385		Juniperus sp., Juniper
386		Lantana sp., Lantana
387		Leptospermum sp., Australian tea tree
388		Ligustrum texanum, Texas privet
389		Myrtus communis, Myrtle
390		Osmanthus fragrans, Sweet olive
391		Phormium tenax, Flax
392		Pittosporum tobira sp., Tobira
393		Raphiolepis indica sp., Indian hawthorne
394		Rosmarinus officinalis, Rosemary
395		Viburnum tinus sp., Laurustinus
396		Westringia fruticosa, Coast rosemary

Preferred Exterior Finishes, Materials & Color Palette

- Plaster
- Brick
- CMU
- Concrete
- Metal panels (zinc)
- Steel
- Glazing
- Anti-Graffiti Coatings (Required-full height of the building)
- Paint & Color Palette (variations of beige)

Interior Finishes, Materials & Color Palette

- Floor & Wall Tile & Grout
- Resilient Flooring & Base
- Carpet Tile (See District Master Agreement)

- Acoustical Ceiling Tile (Required 2 x 4)
- Wall Covering – Fabric Wrapped Panels
- Paint & Color Palette
- Toilet Compartments
- Restroom Accessories
- Drinking Fountains

Fixtures, Furnishings & Equipment

- Modular Casework
- Laboratory Casework
- Instruction Boards (White Boards, Tack Boards, etc.)
- Projectors and Projection Screens
- Flat Panel Monitors
- Modular Furniture
- Loose and Fixed Seating
- Work Surfaces