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## Preferred Manufacturer List - Architectural

Product	Manufacturer A	Manufacturer B	Manufacturer C	Manufacturer D	Remarks
Masonry Repair Anchors	Helifix	Blok-Lok	Simpson Strong Tie		No Substitutions / Or approved equal for helical stainless steel anchor only.
Wedge anchors	Heckman				No Substitutions / Or approved equal for galvanized steel wedge anchor only.
Wall Ties	Dur-O-Wall	Homann & Barnard			No Substitutions / Or approved equal for adjustable, two-piece, stainless steel anchor only.
Flexible Flashing	W. R. Grace	Henry			No Substitutions / Or approved equal for self-adhesive sheet flashing only.
Damp Proofing	Sonoborne	Karnak	W. R. Meadows, Inc.		Or approved equal.
Sealers	ProSoCo				No Substitutions / Or approved equal for solvent-borne siloxane sealer only.
Sheathing	Densglas				Or approved equal.
Water Barrier	Henry				Or approved equal.
Torch Applied Built-Up Roofing	Siplast	Durbigum			No Substitutions / Or approved equal for mod bit roofing only
Cover Board	USG Secureck				No Substitutions / Or approved equal for cement roof board only
Membrane, Liquid	Hydrotech 6125	Carlisle CCW-500R	American Permaquik		No Substitutions / Or approved equal for hot rubberized asphalt only.
Membrane, Sheet	CETCO Voltex DS				No Substitutions / Or approved equal for self bonding bentonite only.
Damp Proofing	W. R. Grace	Meadows	Karnak		Or approved equal.
Sealers	ProSoCo				Or approved equal.
45, 60 & 90 Minute Doors	Algoma Hardwoods	Eggers Industries	Vancouver Door	VTI Industries	No Substitutions
Cylinders	Medeco				No substitutions
Butts	Stanley	McKinney			Or approved equal.
Electric Transfer Hinge	Von Duprin				Or approved equal.
Key Switch	Von Duprin				Or approved equal.
Exit Device	Von Duprin	Corbin			No Substitutions
Locksets & Latches	Corbin	Schlage	Medeco		No Substitutions
Closers	LCN				No Substitutions
Closer 180o	Norton				No Substitutions
Astragal	Pemko				Or approved equal.
Door Stops	Glen Johnson				Or approved equal.
Push/Pull	Builders Brass				Or approved equal.
Kickplates	Builders Brass				Or approved equal.
Thresholds & Weatherstripping	Pemko				Or approved equal.
Door Operators (ADA)	Record Doors				No Substitutions
Auto-Door Sensors (ADA)	B. E. A.				No Substitutions
Door Actuator (ADA)	Largo				Or approved equal.
Door Position Switch (CAAMS)	Sentrol				Or approved equal.
Door Holders	Rixon				Or approved equal.

## Preferred Manufacturer List – Architectural (cont.)

Product	Manufacturer A	Manufacturer B	Manufacturer C	Manufacturer D	Remarks
Floor Leveling Compound	Ardex				Or approved equal.
Fire Extinguisher	Amerex	J. L. Industries	Larsen		No Substitutions
FE Cabinet	J. L. Industries	Larsen			No Substitutions
CAAMS Micro Control Panel	Casi-Rusco				No Substitutions
Input/Output Modules	Casi-Rusco				No Substitutions
Card Reader	Casi-Rusco				No Substitutions
Power Supply	Alarm-Saf				Or approved equal.
CAAMS Contractor/GE/UTC Picture Perfect	RFI Electronics				No Substitutions
Keys	Chicago Lock				No Substitutions
Governor	Hollister - Whitney				No Substitutions
Car Exhaust Fan	Nylube				Or approved equal.
Operating Panel	EPCO				No Substitutions
Telephone Cabinet	Ramtel Corp. (model RR733-942M)				No Substitutions
Intercom	J. Phillips LLC				Or approved equal.
Emergency Car Lighting	Nylube (mod EL-SS)				No Substitutions
Alarm Bell	Nylube (model ELB-6)				No Substitutions
Solid-State Power Supply	Motion Control E.S.				No Substitutions
Harmonic Filter	Myron Zucker Co				Or approved equal.
(Electric Traction Elev) Solid State Power Supply and Logic Control	I-Box Motion Control engineering System 12	CEC/Swift Futura	O. Thompson Ultra 2000		No Substitutions
(Hydraulic Elevators) Solid State Logic Control	Motion Control E.S. PHC 1000	O. Thompson Microflight Series 90 2000-H			No Substitutions
Hall Buttons	EPCO				No Substitutions
Car Direction Lantern & Sound Signals	C. E. Electronics				No Substitutions
Hall Direction Lantern & Sound Signals	C. E. Electronics				No Substitutions
Door Hangers and Tracks	MAC	GAL			Or approved equal.
Door Operators	MAC	GAL			Or approved equal.
Door Edge Protective Device	Janus Elev Products				Or approved equal.
Hoistway Access Switch	EPCO				No Substitutions
Custodial hardware	Bobrick				

**Preferred Manufacturer List - Electrical**

Product	Manufacturer A	Manufacturer B	Manufacturer C	Manufacturer D	Remarks
CMCS system	Allen Bradley PLC-based	Allen Bradley IAS			No substitutions
Generators 175kw and larger	Caterpillar				No substitutions
Generators smaller than 175kw	Caterpillar	Onan	Kohler		Or approved equal.
TV monitor and camera backbox	Steel City #H2-BD-3/4 1 and #2-GC				Or approved equal.
MV connections & terminations	Raychem HVT	3M Quick Term series 5600			Or approved equal.
Splices other than cold shrink	OZ Gedney Series SPKJR	G&W #E74	Adalet 3AS (PLM)		Or approved equal.
MV connections & terminations	3M	Elastimold			Or approved equal.
Approved manufacturers	ASCO-Delta	Russelectric	Cutler Hammer		Or approved equal.
Power circuit breaker	Cutler Hammer Vacuum Breakers (VCP-W) no exceptions				No substitutions
Electrical Vaults	Utility VaultCo	Renton Concrete Products	Fog-tite	Quasizte	Or approved equal.
Primary Switch	S & C				No substitutions
MV Transformers	ABB	Square D	GE	Siemens	Or approved equal.
Local Data Collection Controller	See Standard Specifications				No substitutions
Service Meter	See Standard Specifications				No substitutions
Sub-Meter	See Standard Specifications				No substitutions
SCADA - Multi-Channel Isolated Digital I/O Modbus TCP Module	Advantech e.g. ADAM-6050				No substitutions
Test block	GE type PK-2 #6422120G3; type PK-2 #6422420G4	Marathon 1500	Buss #15149-3		No substitutions
Switchboards	GE	Siemens	Cutler Hammer		Or approved equal.
Network Relays	Electronic Technology Inc (ETI)	Cutler Hammer MPCV	Other manufacturers shall be approved during the design phase		No substitutions
Breakers	GE MicroVersaTrip PM	CH OPTIM 1050	or approved equal		Or approved equal.

**Preferred Manufacturer List – Electrical (cont.)**

Product	Manufacturer A	Manufacturer B	Manufacturer C	Manufacturer D	Remarks
Panelboards	CH	GE	Siemens		Or approved equal.
Cabinet locks	Corbin TEU-1	GE 75			Or approved equal.
Transfer switches - for UW Class E1 & E2 emergency services	Russoelectric				No substitutions
Transfer switches - for UW Class E3 & E4 emergency services & outlying campuses	Russoelectric				No substitutions
Features and Accessories part #	18 specific Russelectric Items				No Substitutions
Switchboards	CH	GE	Siemens		Or approved equal.
					See FSDG Section 15G in "Mechanical" sheet.
Network Lighting Control Systems	Crestron	Douglas	Lutron		No Substitutions
Bells	Simplex cat# 2902-9501 buzzers				No substitutions
Intercom	3M	Pamex	Valcom		Or approved equal.
Nurse call systems	shall match existing and / or approved by UWMC ops & maintenance				No substitutions
Paging	TOA	Dukane			Or approved equal.
Room Control System	AMX				Or approved equal.
Audio mixers / amplifiers	TOA 900 preferred by classroom services				Or approved equal.
Electrical Engineering Firm for Power System Studies	Power Systems Engineering	Siemens Technical Services	Washington Group International, Inc.	Electrotest Inc.	Or approved equal.
Software for short circuit study	SKM Power Tools for Windows				No substitutions
Software for coordination study	SKM Power Tools for Windows				No substitutions
Electrical Testing Contractor	Siemens Technical Services	Sigma 6	Electrotest, Inc.		Or approved equal.

## Preferred Manufacturer List – Mechanical

Product	Manufacturer A	Manufacturer B	Manufacturer C	Remarks
Electric Motor Shaft Grounding Ring	SGS-Shaft Grounding System CR Series			No substitutions
CCW Coils & Heat Exchangers	Delta P Valves			No substitutions
Bypass Relief Valve	Cash Acme	Kunkel		Or approved equal.
Freeze Protection	DOWFROST HD			Or approved equal.
CCW valves	TYCO, Vanessa	Weir, Trientric	QUADAX VALVES Inc.	No substitutions
Steam Valves	TYCO, Vanessa	Weir, Trientric	QUADAX VALVES Inc.	No substitutions
VFDs	Allen Bradeley Powerflex 70	Danfoss VLT 20X	Yaskawa GPD 506	No substitutions
Steam Condensate	See Standard Specifications			No substitutions
CCW BTU	See Standard Specifications			No substitutions
CCW Chilled Water Insertion	See Standard Specifications			No substitutions
Deduct Water - Cooling Tower, Grey Water	See Standard Specifications			No substitutions
Deduct Water - Irrigation	See Preferred Manufacturer List – Exterior Improvements - Irrigation			
Natural Gas - Main Utility, 2" and Larger	See Standard Specifications			
Natural Gas - Main Utility, up to 1.5"	See Standard Specifications			No substitutions
Natural Gas - Submeter	See Standard Specifications			No substitutions
Hydronic Closed Loop Make-up Water meter	Badger Recordall disc series meter with HR-E LCD 4-20 Encoder			Or approved equal.
Water Treatment Controller	Chem-Aqua aquaDART			No substitutions
Thermostatic Mixing Valve	Leonard TM-1520B-LF-DT			No substitutions
DDC control	Siemens Landis Division	Johnson Controls (Bothell)	Alerton by ATS Automation	Sole sourced/No substitution.
Wall sensors mounting hardware	Allen	Bristol		Or approved equal.
Actuated dampers	American Warming and Ventilation	Ruskin	Greenheck	Or approved equal.
Refrigeration Leak Detection - Control Pnl	Honeywell 301EM control panel			No substitutions
Refrigeration Leak Detection - Control Pnl	Honeywell 301EMRP-20 remote pnl			No substitutions

Refrigeration Leak Detection - Sensor	Honeywell 301IRFS gas detector			No substitutions
Gas Monitors - CO and NO2 sensors for Parking Garages	Honeywell E3Point			No substitutions
Drinking Water Fountain	Elkay LZS8WSLP Filtered Enhanced EZH2O Bottle Filling Station			Or Approved equal

## Preferred Manufacturer List – Exterior Improvements – Irrigation

Product	Manufacturer A	Manufacturer B	Manufacturer C	Remarks
Controllers - Central system	Calsense CS3000			Ethernet capability, CS3-EN-10/100 Mbps. Cellular, CS3-GR-KIT, where Ethernet is unavailable. See Design Standards for wall mount enclosures. No Substitutions
Pressure Reducing Valves	Watts	Febco		Or approved equal
Double-check Valve Assemblies	Febco 850	Watts		Or approved equal
Reduced Pressure Backflow Prevention Assemblies	Watts 909			See Design Standards for exterior applications. Or approved equal
Central Control Networked Master Valves	Superior 3300			No Substitutions
Central Control Networked Digital Flow Sensors	Calsense FM			See Design Standards for sizing requirements. No Substitutions
Sub-meters	Krohne			Or approved equal
Zone Valves - Automatic	RainBird PEB			No Substitutions
Ball Valves	Spears TU2000			No Substitutions
Valve Boxes & Extensions	Carson			See Design Standards for sizing requirements. No Substitutions
Sprinklers	RainBird & Hunter			See Design Standandards for application requirements.
Sprinkler Heads - Short Range Rotary	RainBird 1800-sam-p45			with Hunter MP Rotator, 6" stainless steel riser with flow stop. Or approved equal
Sprinkler Heads - Medium Range Rotary	Hunter MP Rotator or Hunter I-20			MP Rotator or I-20 depending on application. 6" stainless steel riser with flow stop. Or approved equal
Sprinkler Heads - Long Range Rotary	Hunter I-40			Or approved equal
Swing Joints - 1/2" & 3/4" inlet Sprinklers	Hunter SJ			With additional Marlex street ells. See Design Standards for sizing. Or approved equal
Swing Joints - 1" inlet Sprinklers	Lasco			With additional Marlex street ells. See Design Standards for sizing. Or approved equal
Swing Joints - Quick Couplers	Dura 1-A4-1-11-18			With DL-010 quick lock. Or approved equal
Quick Coupler Valves	Buckner QB44RC-10			Two-piece, rubber cover. Or approved equal
Quick Coupler Keys	Buckner	RainBird		See Design Standards for sizing. Or approved equal
Control Wire	See Design Standards			
Shielded Cable (for Flow Sensor)	RainMaster EV-CAB-SEN	Houston Wire D1501802		Or approved equal
Splice Kits	3M-DB Series			Or approved equal
Drain Valves	Buckner			See Design Standards for sizing. Or approved equal

## Preferred Manufacturer List – Exterior Improvements – Other

Product	Manufacturer A	Manufacturer B	Manufacturer C	Remarks
Fire hydrant	Kennedy Model K81A	Mueller Super Centurion 250	Waterous Pacer	No substitutions
Exterior below grade pipe penetrations	Link-Seals			Or approved equal.
Stormwater treatment rechargeable, media-filled cartridges	Contech Engineered Solutions			
Exterior below grade pipe penetrations	Link-Seals			Or approved equal.
Exterior below grade pipe penetrations	Link-Seals			Or approved equal.

**Preferred Manufacturer List – EH&S**

Product	Manufacturer A	Manufacturer B	Manufacturer C	Manufacturer D	Remarks
Fire Extinguisher	Amerex	J. L. Industries	Larsen		No Substitutions
FE Cabinet	J. L. Industries	Larsen			No Substitutions
Fire Alarm Control Panel (Seattle, Bothell, and Tacoma Campuses)	Simplex 4100U/4100ES				Sole source/No substitutions.
Cabinet locks	Lock & Corbin Cat. #30 Key				No Substitutions
Dry Pipe Valve, size 2-1/2" through 6"	TYCO DPV-1				No Substitutions
Pre-Action Deluge Valve, size 1-1/2" through 8"	TYCO DV-5				No Substitutions
Cabinet locks	Lock & Corbin Cat. #30 Key				No Substitutions
Class II Type A-2	Baker SterilGARDe series	Labconco Logic Series	Nu-Aire LabGard and CellGard Series	Thermo Scientific 1300 series	No substitutions
Class II Type B-1	Baker models NCB-D Series	Nu-Aire NU-427 Series			No Substitutions
Class II Type B-2	Baker BiochemGARDe series	Nu-Aire NU-430 Series			No substitutions
Conventional Flow	Kewaunee Supreme Air	Labconco Protector models	Mott Sigma Pro		No Substitutions
Low Flow	Kewaunee Supreme Air LV	Labconco Xstream			No Substitutions