

SANTA BARBARA CITY COLLEGE DECLARED DISTRICT STANDARDS

The following lists of items are the Declared District Standards and have been reviewed by the Board of Trustees and are declared as District Standard Materials. Items declared as District Standards shall be used without exception and no substitutions shall be allowed.

SECTION 075000 MEMBRANE ROOFING

Manufacturer:	Tremco		
New Roofs:	Warranty:	Ten year Quality Assurance Plus "Full System" type with options to extend 15 or 20 year warranty.	
	Rating:	UL Class "A" for entire system.	
	Testing:	FM 4470 for wind uplift to 74 mph min, fire and hail.	
	Inspections:	Manufacturer inspections and preventative maintenance as follows: Year 2 and 5 for 10-year QA Plus Warranty. Year 2, 5 and 10 for 15-year QA Plus Warranty. Year 2, 5, 10 and 15 for 20-year QA Plus Warranty.	
Restored Roofs:	Prior Testing:	Infrared and/or electrical capacitance scanning pinpointing any damaged or wet insulation areas. Membrane core testing limited to tensile strength, bitumen softening point, amount of interply and flood coat of bitumen, and asbestos testing.	
	Warranty:	Ten Year Quality Assurance Plus with same coverage as new roof systems.	
Mfr Requirements:	Inspections performed by full-time, trained employees of manufacturer Field inspections during roofing with daily reports issued to SBCC Final acceptance inspection report issued to SBCC Have mfr representative available at all times during roofing operation Provide technical and architectural assistance during warranty term Provide names & addresses of manufacturer certified roofing contractors		
Contact:	Jim Gilday	800-524-2067	jgilday@tremcoinc.com

SECTION 081113 HOLLOW METAL DOORS & FRAMES

Doors, General	1" cell kraft honeycomb core Full height, epoxy-filled mechanical interlock edges 14 gage inverted top and bottom channels 1-3/4" door thickness Usage Frequency: Extra Heavy Duty Interior Doors: Cold rolled steel Exterior Doors: Hot-dip galvanized steel (A60) or galvanized steel (G90)		
Doors (Flush):	Exterior Doors:	16 gauge	
	Interior Doors:	18 gauge	
Doors (Stile & Rail):	Minimum 5" wide vertical stiles and top rails with no visible seams Minimum 10" high bottom rail Exterior and Interior Doors: 16 gauge		

SECTION 081113 HOLLOW METAL DOORS & FRAMES - continued

Door Frames: Exterior: 14 gauge (hot-dip galvanized or galvanized)
Interior: 16 gauge

SECTION 084113 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

Entrance Doors: Minimum 5-1/2" wide vertical stiles and top rails
Minimum 10" high bottom rail

Aluminum Finishes: High-Performance Organic Finish
3-Coat Fluoropolymer Finish Complying with AAMA 2605
70% PVDF Resin by Weight in Color Coat and Clear Topcoat

SECTION 085000 WINDOWS

Windows: District Standard is for aluminum windows. Other materials (fiberglass, wood, vinyl or steel) are not allowed.

Aluminum Finishes: High-Performance Organic Finish
3-Coat Fluoropolymer Finish Complying with AAMA 2605
70% PVDF Resin by Weight in Color Coat and Clear Topcoat

SECTION 087100 DOOR HARDWARE

General Notes: Deviations must be approved by Director of Facilities & Campus Development
Electric strikes shall include all assoc elec & conduits for functioning system
Deviations in exterior door pulls must be approved by the Director of Security
Deviations from electrified components must be approved by IT Department.
Keying as directed by Director of Admin Services & Director of Security

Work Includes: Mechanical door hardware for swinging and sliding doors.
Cylinders for door hardware specified elsewhere.
Electrified door hardware.

Related Sections: Section 087113 "Automatic Door Operators"
Section 281300 "Access Control" for access control devices installed at door openings and provided as part of a security system

Hinges: Interior: Ives 3CB1 4.5x4.5 652 Dull Chrome
Exterior: Ives 3CB1 4.5x4.5 630 Stainless Steel NRP
Continuous: Ives 224HD AL at hollow metal & wood doors
Ives 112HD AL at aluminum doors
Continuous hinge height 1" less than door height

Locksets: Office Lock: Schlage ND50 JD Rhodes 626
Entry Lock: Schlage ND53 JD Rhodes 626
Storeroom Lock: Schlage ND80 JD Rhodes 626
Classroom Lock: Schlage ND70 JD Rhodes 626
Privacy Lock: Schlage ND40S Rhodes 626
Passage Set: Schlage ND10S Rhodes 626

Cylinders: Primus High Security: Schlage 20-740 9G

Keypad Locks: Cylindrical: Schlage Electronics CO100 CY KP RHO 626
(Stand-Alone) Mortise: Schlage Electronics CO100 MS KP RHO 626
Rim Panic: Schlage Electronics CO100 993R KP RHO 626

SECTION 087100 DOOR HARDWARE – continued

Remote Button:	Schlage Electronics PB660	
Electric Strikes:	Von Duprin 6211 FSE 24VAC	
Panic Devices:	Exit Only:	Von Duprin 99 EO
	With Lever Trim:	Von Duprin 99L x 996 06 626
	Surface Vertical Rod:	Von Duprin 9927 EO
	Concealed Vert Rod:	Von Duprin 9947 EO
	Electrified Panics:	Add "EL" suffix to part numbers listed above
Door Cord:	Schlage Electronics 788-12	
Power Transfer:	Von Duprin EPT-10 26D	
Locking Devices:	Rim Cylinder:	Schlage 20-057 626 (for panic device)
	Mortise Cylinder:	Schlage 30-137 626
	Deadbolt w/ Thumb:	Schlage B660JD 626
	Padlocks:	Schlage
Door Pulls:	Vandal-Resist Pulls:	Ives VR910 NL 330 (pull with cylinder) Ives VR910 DT 630 (dummy pull)
	Standard Pulls:	Ives 8303-0 4x16 630
	Offset Pulls:	Ives 8190-0-N 630
Lock Guard:	Ives LG-1 630	
Door Plates:	Push Plates:	Ives 8200 4x16 630
	Kickplates:	Ives 8400 Series 630, 10" high x 2" less than door width (1" less than door width at non-mullioned pairs)
Door Closers:	Interior Inswing:	LCN 4040XP REG 689
	Interior Outswing:	LCN 4040XP RW/PA 689
	Exterior Outswing:	LCN 4040XP EDA 689
	Hold-Open Option:	Add "H" to part numbers listed above
High Security Magnetic Lock:	Single Door:	Schlage Electronics M490
	Pair Doors:	Schlage Electronics M492
Hardware Mullions:	Steel:	Von Duprin 4954 x door height
	Aluminum:	Von Duprin KR1654 x door height
	Storage Kit:	Von Duprin MT54
	Stabilizer:	Von Duprin 154
Weatherstripping:	Adjustable Type:	Pemko 379 DSK head/jambs at exterior doors Pemko 379 DS head/jambs
	Threshold:	Pemko 290 DPK threshold stop
Door Stops:	Interior (Wall):	Ives WS407CCV-630 (reinforce walls as required)
	Exterior (Floor):	Ives FS18L-BLK
	Overhead Stops:	Glynn-Johnson 90 series and 100 series (Use only when floor or wall stops not advisable)
Floor Closers:	New Doors:	Not allowed
	Retrofit Applications:	Replace with continuous hinge and closer
Contact:	Marc Schwartz	909-610-2539 x2558 marc.schwartz@allegion.com
	Allegion, PLC	626-390-0605 cell

SECTION 087113 AUTOMATIC DOOR OPERATORS

General Notes:	Deviations must be approved by Director of Facilities & Campus Development Automatic door operators shall include all associated electrical & conduits for a functioning system		
Related Sections:	Section 087100 "Door Hardware" Section 281300 "Access Control" for access control devices installed at door openings and provided as part of a security system		
Auto Operators:	Push Side Mount:	LCN 9542 REG	
	Pull Side Mount:	LCN 9531STD	
Actuator:	Wikk Industries 136-3SW TRAN 300M wireless		
Receiver:	Wikk Industries 1-Channel Receiver		
Keyswitch:	Schlage 653-04-L2		
Power Supply:	Single Door:	Schlage Electronics PS902	
	Single w/ Panic:	Schlage PS914	
	Pair w/ Panic:	Schlage PS914-2RS	
	2-Pair w/ Panic:	Schlage PS914-4ARL	
	Battery Backup:	Schlage Electronics 900 BBK	
ADA Push Button:	Battery or hardwire		
Contact:	Marc Schwartz	909-610-2539 x2558	marc.schwartz@allegion.com
	Allegion, PLC	626-390-0605 cell	

SECTION 095113 ACOUSTICAL PANEL CEILINGS

General:	Fire Resistance:	Class A	
	Light Reflectance:	Not less than 0.82	
	Warranty (30 year):	Resistant to visible sag, mold/mildew & bacterial growth	
Standard Panels: (NRC ≥ 0.55)	Square Edge: (Standard)	USG Radar ClimaPlus Panels #2410 Armstrong Fine Fissured Panels #1729	
	Scored Panels (Special Areas)	USG Radar ClimaPlus Illusion Two/24 Panels #78780 Armstrong Fine Fissured Panels #1729	
Sound Control: (NRC ≥ 0.70)	Square Edge: (Standard)	USG Radar ClimaPlus Panels #2410 Armstrong Fine Fissured Panels #1729	
	Scored Panels: (Special Areas)	USG Millenia ClimaPlus Illusion Two/24 Panels #78780 Armstrong Cirrus Second Look II Panels #513 (NRC=0.65)	
Suspension System:	USG Donn DX/DXL24 15/16" Exposed Grid Suspension System Armstrong Prelude XL 15/16" Exposed Grid Suspension System		

SECTION 095123 ACOUSTICAL TILE CEILINGS

General:	Fire Resistance:	Class A	
	Light Reflectance:	Not less than 0.82	
Ceiling Tiles: (NRC ≥ 0.45)	USG Radar ClimaPlus Tiles #2570 or Armstrong Fine Fissured Tiles #741 12" x 12" x 1/2" or 5/8" with tongue & groove edges for surface application		

SECTION 096516 RESILIENT SHEET FLOORING

Linoleum Flooring: Forbo Flooring, Inc. (or approved equal)
Marmoleum® Sheet Flooring.

SECTION 096519 RESILIENT TILE FLOORING

Rubberized material is preferred over linoleum but may not be feasible due to project budget

Rubber Flooring: Nora Rubber Flooring; Freudenberg Building Systems, Inc. (or equal).
Noraplan® 24" x 24" Rubber Tile Flooring

SECTION 096813 TILE CARPETING (CLIMATE NEUTRAL MODULAR CARPET TILE)

Manufacturer: Interface FLOR

Product Style: Cubic 1380102500
Color: TBD

Mfr Requirements: At least 15 years of production experience with similar modular carpet
Registration to the ISO 9001/9002 Quality Management System.
Demonstrate environmental responsibility through programs of source
reduction, recycling, reuse and conservation and registration as a submittal
to the ISO 14001 Environmental Management System

Carpet Tiles: Tufted textured loop
Orthogonally ambiguous non repeating pattern for random installation
Gauge to be 1/12th
Soil and stain protection to be Protekt²®
Yarn system to be Type 6.6 or 6 from Aquafil, Universal, Solutia or Invista
Fiber modification ratio equal to or less than 2.5
100% Solution Dyed with post-consumer recycled fiber
30% minimum post-consumer content
50% minimum total recycled content
24 oz/sq yd maximum tufted yarn weight
6000 pile density
50 cm x 50 cm size
Standard backing to be GlasBac® RE Tile
Mill extruded nylon not acceptable

Tile Performance: Modular carpet tile shall meet the following performance standards:

Pill Test	Passes
Radiant Panel Test	≥ 0.45 watts/cm ² , Class 1
Smoke Density:	≤ 450 flaming mode
Dimensional Stability:	≤ 0.1% change
Static Generation at 70°F:	≤ 2.5 kV at 20% R.H
Lightfastness:	4.0 after 60 hours
Crocking:	4.0 wet, dry
Cold Water Bleed:	4
Gas Fade:	4
Ozone Fade:	4
Antimicrobial	>95.0% reduction
Fungicidal:	No growth
Soil/Stain Protection:	>8.0 on Red 40 Stain Scale
California 01350:	Passes

SECTION 096813 TILE CARPETING – continued

Installation: Tactile installation method preferred with no adhesive to be applied to sub-floor for installation

Green Requirements: Green Label Plus Certified #GLP0820 Sustainable Carpet
Assessment Standard: (NSF-140) Sustainable Choice Platinum
All existing carpet and existing carpet waste be reused or recycled in an “environmentally friendly” manner.

Warranty For: Surface fiber wear shall not be more than 10% by weight (no chair pads)
(15 Years Minimum) Static generation at less than 3.0 kV at 70° F, and 20% R.H
No delamination, edge ravel or dimensional instability (i.e., shrinkage, curling and doming) which adversely affect the ability of the tile to lay flat
Mold warranty
Dyelot mergeability warranty
No damage to sub-floor can occur when carpet is removed

Contact: Phil Botwinick 310-451-4191 Phil.Botwinick@interfaceflor.com

SECTION 099100 - PAINTING

Manufacturer: Dunn Edwards

Primer: ULTRA-GRIP Premium UGPR00 Interior / Exterior Multi-Purpose Primer

Interiors: EVEREST EVER50 Interior Semi-Gloss Paint (Standard Finish)

Exteriors: EVERSIELD EVSH10 Exterior Flat (Standard Finish)

Doors/Windows: EVERSIELD EVSH50 Exterior / Interior Semi-Gloss Paint

Contact: Chuck Martin 805-712-0444 chuck.martin@dunedwards.com
805-570-4401

SECTION 101400 SIGNAGE

Interior ADA Signage: 1/32” Rowmark single ply modified acrylic face plate with text pre-cut out of face mounted to 1/8” top-painted acrylic back plate. Text will be drop-fitted into place. Provide raster Grade II Braille at ADA signs. Surface texture to be matte finish. Mount signs to wall with double-sided foam type at perimeter of sign.

Interior Non-ADA: 1/16” non-glare acrylic face plate that is backpainted with sub-surface
Signage: engraved, paint filled text. Face plate to be mounted to 1/8” top-painted acrylic back plate. Surface texture to be matte finish. Mount signs to wall with double-sided foam type at perimeter of sign.

Interior Sign Colors: Base Color: Rowmark ADA Alternative, 3X1-302 China Blue (matte)
Text/Graphics: Rowmark ADA Alternative, 3X1-204 Bright White (matte)

Parking Signage: Minimum 1/8” aluminum sheet with semi-gloss baked enamel or two-component acrylic polyurethane finish, mounted to galvanized steel posts. Provide beaded porcelain enamel finish at reflectorized signs.
Base Color: 557 Imperial Blue
Text/Graphics: 02 White

Logos & Graphics: Information regarding college logos, colors and other official graphics can be obtained at <http://www.sbcc.edu.marketing/>

SECTION 101419 DIMENSIONAL LETTER SIGNAGE

Dimensional Letters: Individual dimensional letters, stud mounted to wall. Painted aluminum cut in Helvetica Medium font type, ¼" thick with ¼" alum offset collars.
 Letter Color: Medium Bronze face and return
 Offset Color: Natural finish

SECTION 102113 TOILET COMPARTMENTS

Manufacturer: Bradley Mills Partitions (or approved equal).
 Toilet Compartments Sentinel Series 400 overhead-braced restroom compartments
 Urinal Screens Model No. 3 floor-anchored urinal screens.
 Material & Finish: 5WL Textured stainless steel finish.
 Hardware: Continuous SS spring-loaded hinges.
 Continuous SS U-brackets at walls and pilasters.
 SS surface-mounted ADA compliant slide latch & keeper.
 Doors ≤32" to have combination coat hook/door bumper.
 Doors >32" to have separate coat hook, door bumper and door pull.

SECTION 102800 TOILET AND BATH ACCESSORIES

Electric Hand Dryer: Dyson Airblade Model AB14
 (@ Public RR only) Polycarbonate-ABS casing in gray finish with anti-microbial additive
 Input Voltage: 110-120V AC, single phase 60 Hz
 Rated Power: 1400W, 12.0A
 Standby Power Consumption: 1W
 Energy Consumption per Dry: 0.00468kwh

Towel Dispenser: Bobrick B-39167 Recessed Convertible Touch-Free Paper Towel
 (@ Individual RR) Dispenser and Waste Receptacle (18 gallon)

Toilet Tissue Dispenser: Kimberly Clark Model JRT 09612
 Jumbo Roll Tissue Dispenser

Seat Cover Dispenser: Georgia-Pacific Model 57710
 Safe-T-Gard ½ Fold Seatcover Dispenser, White

Sanitary Napkin Disposal: Rubbermaid Model 6140
 Sanitary Napkin Receptacle with Rigid Liner, White

Soap Dispenser: Spartan Model 9751 Lite 'n Foamy Dispenser, White

ADA Toilet Tissue Dispenser: Bobrick B-3888 (or approved equal) for fully recessed wall installation.
 Bobrick B-386 (or approved equal) for 2-sided partition installation.

ADA Sanitary Napkin Disposal: Bobrick B-353 (or approved equal) for fully recessed wall installation.
 Bobrick B-354 (or approved equal) for 2-sided partition installation.

Framed Mirror: Bobrick B-165 (or approved equal)
 Frameless mirrors should not be specified.

Clothes Hook: Bobrick B-233 Clothes Hook (or approved equal).
 Locate near lavatories for hanging purses/backpacks.

ADA Lavatory and Sink Guards: IPS Corporation, TrueBro LavShield protective lavatory enclosure.
 IPS Corporation, TrueBro BasinGuard undersink protection.

SECTION 115213 PROJECTION SCREENS

Manual Screens: Draper Luma2 Front Projection Screen (or equal)

SECTION 115216 PROJECTOR MOUNTS

Manufacturer: Business Machine Security (www.LocDown.com)

Drop Ceiling Plate ADJ-DCP 824
Adjustable mounting bracket plate installed above suspended acoustic tile with security cable and hanger wire support system to attach ceiling plate to structure above
Maximum Load: 60 lbs.

Clg Projector Mount: LCD LOC II Universal Mount
Two interlocking steel trays to provide security and stability for LCD/DLP projectors. $\pm 15^\circ$ tilt, pitch, roll adjustments and 360° swivel
Maximum Load: 150 lbs
Color: Projector Grey (standard)

Locking: High-security, pick resistant, five wafer, cylindrical screw type key lock at Drop Ceiling Plate and Projector Mount, keyed alike

SECTION 129300 SITE FURNISHINGS

Benches: DuMor, Inc. 11 Series PL, 6'-0" long bench with "Cedar" recycled plastic slats with Type S-1 mounting (18" deep support posts mounted in concrete)

Bicycle Racks: Peak Racks, Inc. (www.PeakRacks.com)
Campus Racks single or double-sided hot-dipped galvanized bike racks.

SECTION 129323 TRASH AND LITTER RECEPTACLES

Exteriors: Wausau Tile Precast Concrete Waste Container with security cable assembly
Base: Model TF1875 with Weatherstone Sand B-3 finish
Lids: Model TF1476 custom plastic double-sided dome top
Trash: Brown 4 with custom "Landfill" mark-it logo one side
Recycling: Blue 0 with custom "Recycling" mark-it logo one side
Liner: Model 750153 (36 gallon) plastic liner

Corridors & Public Spaces: Forms + Surfaces Model SLTRD-24L
Triad Litter and Recycling Receptacle
Color & Finish: Stainless Steel with Diamond Finish
Lids: Black plastic with trapezoidal lid opening
Graphics: Black background with custom text "Landfill"
Blue background with standard text "Recycling"

SECTION 142400 HYDRAULIC ELEVATORS

Manufacturer: Republic Elevator Company or approved equal

Elevator Type: Single direct acting hydraulic cylinder in well holes
 Rated Speed = 125 feet per minute
 Main Power Supply = 208 Volts, 3 phase, with separate equipment grounding conductor

Operation: Nonproprietary programmable microprocessor-based controller (Motion 2000 by Motion Control Engineering or approved equal) with automatic operation by means of car and hall buttons.

SECTION 232500 HVAC WATER TREATMENT (FOR NEW SYSTEMS ONLY)

Manufacturer: Chem-Aqua is preferred water treatment vendor and should be consulted for all projects that have mechanical water treatment requirements.

System Cleaner: Chem-Aqua 61502 (sufactants, metasilicate, polyphosphate) at 2.5 gal per 1000 gal of system volume, and Chem-Aqua 11000 at 1 gal per 1000 gal of system water. Add FC-101 defoamer as needed. Circulate 12-24 hrs then drain and flush system.

Iron Dispersant: Chem-Aqua CBD-95 at 1 gal per 1000 gal of system volume; circulate for 2 days then drain and flush system thoroughly

System Passivation: Refill system, add Chem-Aqua 11000 at 1 gal per 1000 gal system volume. Circulate for 5-7 days. Drain and flush system.

Recharge System: Use corrosion and scale inhibitor Chem-Aqua 999/777 sodium nitrite.

By-Pass Pot Feeder Chem-Aqua-Aqua Pass Pot feeder w/filter 5 gallon capacity. Isolation valves and drain valve for pot feeder will be needed.

SECTION 224213 COMMERCIAL WATER CLOSETS AND URINALS

Toilet: American Standard - Madera – ADA – Floor mounted – White Model 3465.001 elongated, top spud with 4 bolts

Toilet Seat: Olsonite model 95SSCT open front – no cover

Toilet Flush Valve: Sloan Optima, 1.28 GPF, sensor operated
 Model 111-1.28 ES-S TMO hard wired w/ transformer for new construction
 Model 111-1.28 SMO battery powered for remodels

Urinal: American Standard – Washbrook – ADA – White Model 6590.001, top spud.

Urinal Flush Valve: Sloan Optima, 1.0 GPF, sensor operated
 Model 180-1.0 ES-S TMO hard wired w/ transformer for new construction
 Model 180-1.0 SMO battery powered for remodels

SECTION 224216 COMMERCIAL LAVATORIES AND SINKS

Lavatories:	American Standard – ADA – White Wall-mounted with concealed arms or wall hanger
8" Centers:	Lucerne Model 0356.015 wall-mount lavatory (District Standard) Murro Model 0958.900.020 wall-mount lav w/ shroud/knee contact guard
4" Centers:	Lucerne Model 0355.012 wall-mount lavatory (District Standard) Murro Model 0954.900.020 wall-mount lav w/ shroud/knee contact guard
Single Hole:	Lucerne Model 0356.421 wall-mount lavatory (District Standard) Murro Model 0955.000 wall-mount lavatory less shroud (Optional) (for installation with Dyson Airblade Tap Combo Hand Dryer/Faucet only)
Faucets:	Chicago Faucets
8" Lav Faucet:	Model 404-VE2805-665ABCP, 0.5 gpm, metering, dual supply temperature, 8" centers, less than 0.25% total lead content
4" Lav Faucet:	Model 3500-4E2805ABCP, 0.5 gpm, metering, single supply temperature, 4" centers, less than 0.25% total lead content
Lab Faucet:	Model 930CP dual temperature faucet with GN2BVBJKABCP 6" gooseneck spout with vacuum breaker, single hole, 204PR handles and E7 serrated nozzle outlet (Note: Does not meet ADA requirements)

SECTION 224700 DRINKING FOUNTAINS AND WATER COOLERS

Water Cooler with Bottle Fill Station:	Elkay EZH20 bottle filling station with bi-level filtered LZ cooler Model LZSTL8WSLK. Provide #51300C_3PK 3-pack replacement filters
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SECTION 230000 HEATING, VENTILATING AND AIR CONDITIONING (HVAC)

Chillers:	Trane, York, McQuay
Air Handlers:	Catalog: Trane, York, McQuay Custom: UMP, Temtrol, Haakon
DX Unitary Packaged Rooftop Units:	Trane, York, McQuay
Commercial Split and Packaged Rooftop Units:	Trane, York, McQuay
VRF (Variable Refrigerant Flow) Systems:	Mitsubishi, Trane
Make Up Air Units:	Greenheck, UMP, Modine
Variable Air Volume (VAV) Units:	Trane, York, McQuay
Unit Ventilators:	Trane, York, McQuay
Blower Coil Air Handlers:	Trane, York, McQuay, Magic Aire
Make Up Air Gas Heating Systems:	Reznor, Modine
Boilers:	Lochnivar (standard) Raypak (if required due to size limitations)
Variable Frequency Drives (VFDs):	Johnson for new equipment & replacement drives
Valves and Actuators:	Belimo or Johnson Elodrive waterproof type (for exposed to weather applications)

SECTION 250000 ENERGY MANAGEMENT SYSTEM (EMS)

- Backbone System:** JCI Metasys Field Devices
 JCI Facility Explorer FX 60/90 Building Supervisory Panels
 JCI NAE controllers not allowed
 Johnson DDC DX-9100 Controller for Lighting System at each building that controls outdoor lighting via time schedule in FX server and light sensor connected to controller
- Software:** Niagara AX Platform using FX workbench software connected to existing campus-wide Ethernet network to be installed on owner-provided PC
 Field Devices –WGX9100, CCT Software
 All Software and Devices must be approved by SBCC
- Scope of Work:** Provide and install all necessary conduit, wire, controllers, testing, programming, commissioning and interfacing to supervisory controllers.
 All new equipment to be interfaced with back bone system
 All FX supervisory panels will be programmed using complete commissioned field DDC controller software
 Points for each building's controller will be mapped to that building's FX supervisory panel which will be mapped to campus-wide FX server.
 System to automatically activate backup lighting schedule if network to controller from FX panel fails
 Provide separate data screen and separate graphic screen for each piece of equipment controlled by the DDC, also provide project floor plan graphics with schematics. All to match existing graphics at campus.
- Control Points:** Air Moving Devices and Equipment
 Air Control Devices and Equipment
 Liquid Moving Devices and Equipment
 Liquid Control Devices and Equipment
 Package Single Zone AC w/ Gas Heat (CAV)
 Reheat or HW Heating Coils
 Variable Speed Drives w/ Electronic Bypass
 Electric Radiant Heaters
 EMS not required at Fans < 5 HP, Evaporative Coolers, Air Compressors, Kitchen Equipment or Domestic Hot Water Heaters

SECTION 260000 ELECTRICAL

- Manufacturer:** Square D Products
- Items:** Main High Voltage Switch Gear (4160)
 Main Electrical Distribution Systems (I line, NF, NQ (bolt on) panels)
 Lighting Contactors (277V and 120V coils)
 Transformers (EE type, K-rated where required)

SECTION 265100 LIGHTING

Classroom Lighting: Focal Point Equation 2x4 Fixture or
Ledalite PureFX 2x4 Fixture

Lamps: LED lamps with CRI>80 are encouraged where available and within budget
Fixtures using 4' T8 lamps are preferred where LED is not practical
4' T8 Lamps with SP41 Color are stocked on site & preferred for interiors
High efficacy specialty lamps, such as T5HO, may be used in applications
where LED and T8 are not practical (such as coves or large, high ceiling
spaces where LED can't be made to work)
Low efficacy Incandescent/Halogen/MR16/PAR lamps are discouraged
except where needed for specific applications
Fluorescent dimming is discouraged. LED (if no low end is required) or
incandescent (for extremely low light levels) is preferred - minimize the
amount of dimming through stepped switching where possible
Exterior lighting is being converted to LED, and all new exterior lighting
should be LED

Lighting Controls: Watt Stopper, dual technology motion sensors:
1. Ceiling sensors with wall manual control for large areas
2. Wall mounted, dual switched wall plates for small rooms and offices

Exit Signs: Depending on application, three types are allowed. All signs shall have
green lettering (or background for the tritium based signs)
Specification grade, brushed aluminum face, LED lighting with battery
backup and self-diagnostics (equal to Lithonia LES series)
Specification grade, mirrored glass(acrylic), LED lighting with battery
backup and self-diagnostics (equal to Lithonia LRP series)
Tritium based, self-luminous with green faceplate, 20 year life minimum
(equal to Isolite SLX-60 series)

Exterior Pole Lights: Gardco Pole Lights, Hardtop, MP or Side Mount
8', 10', 15', or 25' Poles with BRA Finish
LED or HPS Lamp, if no LED option, Multi-Tap, Mogal Base
Bega Model 8878P Poles and Fixtures (Single or Twin Fixture)
Bega Model 890C Anchorage

Exterior Decorative: Teka, various styles
Bega, various styles

Exterior Wall Packs: Hubbell, various styles, with LED Lamps (HPS if LED not available)

Step/Walk Lights: Devine

Contacts: Mar Vista Sales
Steve Dominguez 805-642-7714 steve@marvistasales.com
Prudential
Dave Relyea 805-598-3973 drelyea@plpnorth.com

SECTION 270000 DATA AND VOICE COMMUNICATIONS, GENERAL

Data Closets:	Provide minimum of one data closet per floor All computers wired to data closet on same floor Data closets to be on generator circuit for emergency power Data closets to be air conditioned A/C to switch to emergency power during outages
Cable TV:	Cable and satellite TV to tie into head end at Administration Building
Data at Offices:	Provide one duplex data jack at every power outlet in offices
Telephones:	All telephone wiring to be Cat6 cabling run over the data network Provide one 25-pair copper phone line from each building to phone room in Administration Building. Emergency announcements made over phone system (no separate PA) Provide one telephone at each instructor station and office
Contact:	SBCC IT Department Paul Bishop 805-965-0581x2213 pwbishop@sbcc.edu

SECTION 271113 COMMUNICATIONS ENTRANCE PROTECTION

Protector Panels:	Commscope/Systimax (489 type) Circa (189 type) or prior approved equal
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SECTION 271116 COMMUNICATIONS CABINETS, RACKS, FRAMES & ENCLOSURES

Rack-Mounted Fiber Enclosures:	Provide at equipment rack/cabinet locations Commscope (RFE-FXC/RFE-FXD products) Leviton (Lightspace DPS/DPC products) OFS (LST/LSS products)
Wall-Mounted Fiber Enclosure	Provide in basement of Administration Building Leviton (Lightspace CPC-48) or equivalent products by Commscope or OFS
Cabinets:	Dell PowerEdge 4210 (or approved equal)
Racks:	Chatsworth (55053-703) Cooper B-Line (SB-556-084-XUFB) Hoffman (E-DR19FM45U)

SECTION 271119 COMMUNICATIONS TERMINATION BLOCKS AND PATCH PANELS

Manufacturers:	Amp Hubbell Panduit or prior approved equal
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SECTION 271123 COMMUNICATIONS CABLE MANAGEMENT AND LADDER RACKS

Vertical Cable Management:	Chatsworth (30163-703 for 10", 30162-703 for 6") Panduit (PatchRunner™) or prior approved equal
Horizontal Cable Management:	Chatsworth (30330-719) Systemax (HCM2U) or prior approved equal
Patch Panel Wire Management:	19" rack mountable Chatsworth (12176-701) or equal from patch panel manufacturer
Ladder Rack:	Chatsworth (11275-718) Cooper B-Line (SB-17-18-FB) Mono-Systems (MR-17T-18-PB)

SECTION 271126 COMMUNICATIONS RACK MOUNTED POWER PROTECTION AND POWER STRIPS

Power Strips:	Chatsworth (12816-705) or approved equal
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SECTION 271313 COMMUNICATIONS COPPER BACKBONE CABLING

Underground Voice Backbone Cabling:	Superior Essex (09-097-02) Or equivalent by Belden or General Cable
Plenum Voice Backbone Cabling:	Superior Essex (18-599-33) or equivalent by Berk-Tek or General Cable

SECTION 271323 COMMUNICATIONS OPTICAL FIBER BACKBONE CABLE

Fiber, General:	Provide 50/125µm multi-mode optical fiber backbone cabling to each building that terminates in NW corner of Administration building basement
Fiber Cabling: (Multi-Mode)	Exterior Cabling: Corning Commscope O-012-LA-5K-F12NS (or equal) Interior Cabling: Corning Commscope P-012-DS-5L-FSU-AQ (or equal) (Adjust product numbers according to strand counts as required)
Fiber Cabling: (Single-Mode)	Exterior Cabling: Corning Commscope O-012-LA-8W-F12NS (or equal) Interior Cabling: Corning Commscope P-012-DS-8W-FSU-YL (or equal) (Adjust product numbers according to strand counts as required)

SECTION 271513 COMMUNICATIONS COPPER HORIZONTAL CABLING

Product:	Category 6A cable utilized for horizontal voice and data cabling
Manufacturers:	ADC (10G-A6TP-WT02) Hubbell (DBASPW) or equivalent by AMP or Belden

SECTION 275313 CLOCK SYSTEMS

Manufacturer: Visiplex

Clocks: 14" Wireless Synchronized Analog Clock with Custom SBCC Logo Face
Model TS-CLK-1462S

Transmitter: Model TS101-100

Wireless Encoder: Model TS2800

Contact: Simplex Grinnell
Jim Faltemier 805-642-0366 jfaltemier@simplexgrinnell.com

SECTION 281300 ACCESS CONTROL

Section Includes: Access control devices installed at door openings and provided as part of a security system.

1. A complete access control system as described in the Specifications and as detailed on the Drawings
2. Complete system is defined as all work required to install the access control system described herein and on the Drawings including, but not limited to: all electrical, conduit, conduit stubs, cables, cabling, connectors, terminations, risers, back boxes, junction boxes, security junction boxes, security terminal cabinets (STC), card readers, Integrated Card Reader Locksets, system software licenses, alarm contacts, controllers, access control panels, power supplies, transformers, power distribution boards, batteries, enclosures, tamper switches, latches and locks, mounts, electrified door hardware and connection to electrified door hardware

Related Sections: Section 087100 "Door Hardware"
Section 087113 "Automatic Door Operators"

Software: Wireless locks programmed for use with Allegion Blackboard Transact

Electronic Locks: Wireless Cylindrical: Schlage AD-400-CY-MT-50-JD RHO
(Networked) Wireless Mortise Schlage AD-400-MS-MT-50-JD RHO
Wireless Rim Panic: Schlage AD-400-993R-MT-50-JD RHO
Wireless SVR Panic: Schlage AD-400-993S-MT-50-JD RHO
For Hard-Wire Locks: Substitute "300" for the "400" series listed above
Com Cover w/ IPB: Schlage Kit #46928875 for AD-400-CY locks, converts function from 70 "Classroom/Storeroom" to 50 "Office"

Infa-Red Scanner: Schlage Electronic Scan II White/Black.

Door Position Switch: Schlage Electronics 679-05 HM/WD.

Controllers: Master Controller: Blackboard SA 3000.
Door Controller: Blackboard SA 3032, 1 for each hard-wired door.
Provide SA series power supply and enclosure

Card Reader: Blackboard DR4100 Hybrid Door Reader - Sony FeliCa contactless ISO 18092 compliant with 3-track HiCo mag stripe read head

IR Panel Interface Module (PIM): Schlage PIM 400-485

Electric Latch (EL) Retrofit/Conversion: Von Duprin EL Kit, 3 feet or 4 feet
Retraction Kits: For New Work: Von Duprin Computer Lock, CL993

SECTION 281300**ACCESS CONTROL – continued**

IR Power Supply:

For Panic Devices: Von Duprin PS914-2RS
For Doors Operators: Von Duprin PS914-4RL

Contact:

Integrated Door Systems
Bob Simpson (805) 693-9299 (805) 693-9719 fax**SECTION 281600****INTRUSION DETECTION SYSTEM**

Control Panel:

Digital Monitoring Products (DMP)
Model XR500 Series 574-Zone Command Processor Panel

Keypads:

Digital Monitoring Products (DMP)
Series 7000 Thinline LCD Keypad

Door Contacts:

Sentrol 1078 Series
GE 1078/1076 Series

Contact:

Bay Alarm Company
Rick Prinz 805-662-2714 rick.prinz@bayalarm.com**SECTION 282300****VIDEO SURVEILLANCE SYSTEM**

Camera & Housing:

Bosch VDN-495 Series

Camera Power:

Altronix ALTV2316350

DVR:

Bosch DiBos Model DB30C5160R2

Monitor/Keyboard:

Orion 17RTC in Rack Mounted Assembly
17" LCD with 1280 x 1024 Resolution with Built-In Speakers
NTSC/PAL Video System
Multiple Video Input/Output (2 BNC, 1 S-Video),
VGA, Component and HDMI Input

Contact:

Bay Alarm Company
Rick Prinz 805-662-2714 rick.prinz@bayalarm.com**SECTION 283100****FIRE DETECTION AND ALARM**

Manufacturer:

Simplex Grinnell

Equipment:

4100-9111 FACP Panel and Cabinet
4010-9101 FACP Panel
4098-9714 Smoke Detector (addressable, requires 4098-9792 base)
4098-9733 Heat Detector (addressable, requires 4098-9292 base)
4098-9751 In-Line Duct Detector (for usage with smoke/fire dampers)
4098-9756 Tube-Style Duct Detector (for usage on HVAC equipment)
4090-9001 Addressable IAM Monitor Module (for sprinkler connections)
4090-9002 Addressable Relay Module (for elevator recall connections)
4096-9101 Multi-Candela Strobe (typical, various types available)
4096-9128 Multi-Candela Horn/Strobe (typical, various types available)

Contact:

Jim Faltemier 805-642-0366 jfaltemier@simplexgrinnell.com

SECTION 323000**SITE IMPROVEMENTS**

Skate Stops: Required on all site walls and curbs accessible to skateboarders
Exact locations to be determined by project team

Manufacturer: Skatestoppers by Intelliccept
619-447-6374
www.skatestoppers.com

New Concrete: F2 Series, aluminum
(Cast-In-Place) ½" radius trowel maximum and ½" chamfer maximum

Existing Concrete: FA Series (fixed angle), aluminum
(Surface Mount) FR Series (fixed radius), aluminum

Masonry/Precast: Insert Series
Cast Bronze with brown patina or White Tombasil (white brass)

SECTION 320523**CEMENT AND CONCRETE FOR EXTERIOR IMPROVEMENTS
(COLORED CONCRETE FOR SIDEWALKS, STAIRS & PLANTERS)**

Manufacturer: Solomon Colors, Inc. (or approved equal)
866-747-2656
www.solomoncolors.com

Color Pigment: SGS Integral Colors Dry Pigment Ready Mix

Color: 750 Desert Tan

Field Mockup: Provide at least one mockup to verify match to existing colored concrete

SECTION 321413**PRECAST CONCRETE UNIT PAVING**

Manufacturer: Belgard / Sierra Building Products
909-355-6422 / 866-749-3038
www.belgardcalifornia.com

Concrete Pavers: Cambridge Collection untumbled interlocking concrete pavers
I-Pattern (75% rectangular, 25% square)
2-3/8" x 5-7/8" x 7-7/8" rectangular
2-3/8" x 5-7/8" x 5-7/8" square

Colors: 60% Bella Blend, 20% Toscana Blend, 20% Sahara Blend

Local Distributor: Stoneyard Building Materials
805-962-9511
www.stoneyardbuilding.com

SECTION 321726**TACTILE WARNING SURFACING**

Manufacturer: Wausau Tile (or approved equal)

Warning Tiles: ADA-3 Pavers, nominal 12 by 12 inches square with 1.67-inch spacing
straight dome pattern.

Color: ADA-70

Contact: Jeff Wren 909-628-4296 wrenco@live.com

SECTION 328400**PLANTING IRRIGATION**

Controllers:	Rainmaster RME (or equal)
Valves:	Rainbird EFA-CP, brass Rainbird EFA-CP-PRS, brass Superior Mod 950, brass
Wire:	14 gauge minimum Where multiple controllers are used, color code each common wire and use different color control wires
Pipe:	Main lines shall be Class 315 PVC for pipes 2" and larger Main lines shall be Schedule 40 PVC for pipes 1-1/2" and smaller Lateral lines shall be Schedule 40 PVC Sleeves shall be Schedule 40 PVC All pipe shall be colored appropriately according to supply source
Backflow Device:	Shall be on approved list of Water Agency
Master Valves:	Hardie 102 Series or 123 Series as required
Quick Couplers:	Nelson 1" Model 7642, 7643, 7644 and 7655
Booster Pumps:	Constant-Flow by Southern California Pump Sales (or equal)
Great Valves:	Nibco T-113 or Equal, brass
Wire Connectors:	24 Volt - Rainbird "Snap-Tite" (or equal)
Backflow Enclosure:	Strong Box SS (or equal)
Pressure Regulators:	Wilkins 500 Series (or equal)
Irrigation, General:	For all areas under 5' x 5' pop bubblers or drip are the preferred delivery method. All future or retro-fitted planting beds should use bubblers. All sprinkler applications must minimize surface water runoff and provide head-to-head coverage. MP rotors should be considered first and used whenever possible.
Heads:	Hunter MP Rotator 1000, 2000 and 3000 Series Hunter 1-40 Rotors Hunter 1-20 Rotors Toro 300 Series Rainbird 1800 Series SAM-PRS Rainbird 1402 Bubblers Rainbird 5000 PRS Series

SECTION 329200**TURF AND GRASSES**

Turfgrass Sod:	Southland Sod Marathon II Sod, Dwarf Tall Fescue
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SECTION 329300 PLANTS

General Planting: Do not use plants on the Cal-IPC invasive plants list. For reference:
<http://www.cal-ipc.org/ip/inventory/pdf/Inventory1999.pdf>

Special Trees: The following are a list of trees that can not be planted without special exemption from the College:

- Eucalyptus sp
- Corymbia sp
- Pinus Pinea
- Washingtonia sp
- Ceratonia sp
- Platanus acerifolia
- Ficus sp

END OF DISTRICT STANDARDS