ction	Item	Manufacturer		Comments	Justification
		American Bollard and Architectural Iron Company (Milford, PA)			Maintenance of campus- wide consistency . Limit number of
-00-00	Decorative Bollards	Garden City "A" Fluted			replacement parts to be stocked. Aesthetic consistency.
		U-Lok Corporation		The rack has 18" spacing of	
		Sunshine U-Lok Wave-Lok Bike Rack		vertical pipes that allows a bike	
		in-ground mount		and frame to be locked rather	Maintenance of campus- wide consistency . Limit number of
-00-00	Bike Rack	black vinyl coated		than the front wheel.	replacement parts to be stocked. Aesthetic consistency.
		Country Casual			Maintenance of campus- wide consistency . Limit number of
00-00	Exterior Bench	Windermere model		Bench with Back	replacement parts to be stocked. Aesthetic consistency.
	Exterior Lighting Fixtures				
		KIM Archetype LED Series			
		Fixture: 1SA/SAR3E35/60L4K/VOLTAGE/DB Photocell Receptacle: A-33 (voltage)			
		12' Pole: KRS12/4120/SAR/SA/DB/UL LABEL	1		
		Finish: Anodized aluminum, Dark Bronze	The state of the s		Maintenance of campus- wide consistency in exterior lighting
		Pole: Round, Steel, Non-Tapered			fixture type. Limit number of replacement parts to be stocked.
	Pedestrian Area Light	7"-8.5" Slotted Bolt Circle			Aesthetic consistency.
	redesilian Alea Light				Aestrietic consistency.
		Holophane Utility Granville Series Luminaire			
		Fixture: GVU100MHMTZ5NNUH (with up shield) AOL2003 Photocell Receptacle: H			Cingle expention allowed to Kim fixture standard to be used at
		Pier Mount Base: PM-CA/DB			Single exception allowed to Kim fixture standard to be used at historic buildings only. Consistency of aesthetic and replacemen
	Historic Pedestrian Area Light				issue.
	HISTORIC Fedestrian Area Light	Barrington Series Pole: B12/20/CI/DB	1-115		issue.
		KIM Archetype LED Series			
		Fixture: 1A/AR3E35/120L4K/VOLTAGE/DB			
		Photocell Receptacle: A-25 (VOLTAGE)			
		30' Standard Pole: LTRA30-8156/AR/A/DB/UL LABEL			
		Finish: Round, Anodized aluminum, Tapered. Finish: Dark Bronze.			
		11" Bolt Circle 30'			
		Banner Pole: PTRS30-81120/AR/A/DB/UL LABEL Pole & Finish:			Maintenance of campus- wide consistency in exterior lighting
	Campus Street and Parking Lot Area	Round, Steel, Tapered, Dark Bronze, Tapered.			fixture type. Limit number of replacement parts to be stocked.
	Light - Single Fixture	10.5" Bolt Circle			Aesthetic consistency.
	Light Onigio Fixture	KIM Archetype LED Series			Acoustic consistency.
		Fixture: 2B/AR3E35/120L4K/VOLTAGE/DB			
		Photocell Receptacle: A-25 (1 required per double assembly)	-		
		30' Standard Pole: LTRA30-8156/AR/B/DB/UL LABEL			
		Finish: Dark Bronze			
		Pole : Round, Aluminum, Tapered			
		11" Bolt Circle			
		30' Banner Pole: PTRS30-81120/AR/B/DB/UL LABEL			
		Finish : Dark Bronze			Maintenance of campus- wide consistency in exterior lighting
	Campus Street and Parking Lot Area	Pole: Round, Steel, Tapered			fixture type. Limit number of replacement parts to be stocked.
	Light - Double Fixture	10.5" Bolt Circle			Aesthetic consistency.
		KIM Archetype LED Series			
		Fixture: 1A/AR3E35/120L4K/VOLTAGE/DB			
		Photocell Receptacle: A-25 (VOLTAGE)	RI		
		35' Standard Pole: LTRA35-8156/AR/A/DB/UL LABEL			
		Finish: Dark Bronze			
		Pole : Round, Aluminum, Tapered			
		11.5" Bolt Circle			Maintenance of campus- wide consistency in exterior lighting
		35' Banner Pole: PTRS35-85120/AR/A/DB/UL LABEL			fixture type. Limit number of replacement parts to be stocked.
	Parking Lot Area Light - Single Fixture	Finish: Dark Bronze			Aesthetic consistency.

Section	Item	Manufacturer		Comments	Justification
	Parking Lot Area Light - Double Fixture Exterior Brick Pavers	KIM Archetype LED Series Fixture: 1A/AR3E35/120L4K/VOLTAGE/DB Photocell Receptacle: A-25 (VOLTAGE) 35' Standard Pole: LTRA35-8156/AR/A/DB/UL LABEL Finish: Dark Bronze Pole: Round, Aluminum, Tapered 11.5" Bolt Circle 35' Banner Pole: PTRS35-85120/AR/A/DB/UL LABEL Finish: Dark Bronze Pole: Round, Steel, Tapered 11.5" Bolt Circle	T		Maintenance of campus- wide consistency in exterior lighting fixture type. Limit number of replacement parts to be stocked. Aesthetic consistency.
	Exterior Brick Favers				
32-00-00 32-00-00	Heavy Vehicular Traffic	Pine Hall Brick (Winston-Salem, NC) Pathway Full Range 4" x 8" x 2-1/4" Pine Hall Brick (Winston-Salem, NC) English Edge Full Range 4" x 8" x 2-3/4" Pine Hall Brick (Winston-Salem, NC) Old Tavern			Maintenance of campus- wide consistency in pavement type. Limit number of replacement pavers to be stocked. Aesthetic consistency. Maintenance of campus- wide consistency in pavement type. Limit number of replacement pavers to be stocked. Aesthetic consistency. Maintenance of campus- wide consistency in pavement type. Limit number of replacement pavers to be stocked. Aesthetic
32-00-00	Accessible Curb Ramps	4" x 8" x 2/1-4"			consistency.
12-00-00		Petersen Manufacturing Co. (Denison, IA) Avenue series: AVE36 Spun Steel Tapered Lid - 11" diameter opening Color of receptacle and lid: Architectural Bronze	BAND FLEE		Maintenance of campus- wide consistency in receptacles. Limit number of replacement parts and bags. Aesthetic consistency.
12-00-00	Ash Urn	Petersen Manufacturing Co. (Denison, IA) Spun aluminum dome ash lid with stainless steel snuffer bowl, mounted on top of AVE36 waste receptacle Color: Architectural Bronze	N SU		Maintenance of campus- wide consistency in receptacles. Limit number of replacement parts. Aesthetic consistency.
12-00-00		Petersen Manufacturing Co. (Denison, IA) Avenue series: AVE36R Spun Steel Tapered Lid - 8" diameter opening Color of receptacle: Architectural Bronze Color of tapered lid: Recycling Blue	ORECYCLING		Maintenance of campus- wide consistency in receptacles. Limit number of replacement parts and bags. Aesthetic consistency.
	Irrigation Controllers	Rain Bird ESP-MC			The controller accommodates NCSU's central irrigation system Maxicon which is being implemented throughout campus to conserve water using Weather and ET data.

Item	Manufacturer		Comments	Justification
Building Directory	Nelson-Harkins Industries (Chicago, IL) Model: D-254 Frame Material: Extruded Aluminum Non-illuminated Clear acrylic lift-off lens 1" high raised GRAV-TAC #248-114 at top Header: UNIVERS RG U&L font Frame Profile: Square Finish: 26077 Dark Bronze acrylic polyurethane Namestrip color: white with black text Mounting: Surface	1911 Buildes	Contact: Vince Darland nhi@nelson-harkins.com Nelson-Harkins Industries 5301 North Kedzie Ave. Chicago, IL 60625 800-882-8989	Interchangeable components with existing signs, consistent aesthetic and university standard,
			Security contractor on all	Provides the required functionality, features and seamless integration with existing campus wide access control system,
Door Access System	Software House CCURE 9000		projects.	equipment, CCTV and door hardware equipment.
Electrified Door Access Hardware Electrified Mortise Locksets	Best 45HW7DEU Series Finish should be 626 or 628 based on application			Provides the required functionality, features and seamless integration with existing campus wide access control system, equipment, CCTV and door hardware equipment. Limits number of replacement parts stocked and reliability.
Electrified Exit Devices	Von Duprin 99 Series QEL with LX/RX switch and 626 Finish			Provides the required functionality, features and seamless integration with existing campus wide access control system, equipment, CCTV and door hardware equipment. Limits number of replacement parts stocked and reliability. Provides the required functionality, features and seamless
Wireless Mortise Lockset	Schlage Model AD-400 (Aplication and installation must be approved by NCSU Security Applications and Technologies) Von Duprin PS914, 900-4RL, 900-BBK, 900-KY (all applications)			integration with existing campus wide access control system, equipment, CCTV and door hardware equipment. Limits number of replacement parts stocked and reliability. Provides the required functionality, features and seamless
Door Hardware Power Supplies Electro-mech Transfer Butt Hinge	Alternate: Von Duprin PS902, 900-2RS, 900-BK, 900-KY Sentinel, Stanley or Hager, but must have 10 conductors. Finish should be 626 or 628 based on application.			Integration with existing campus wide access control system, Integration and capability with existing campus wide access control system, equipment and required functionality and equipment connections required.
Electric Power Transfer	Von Duprin EPT-10 (continuous hinge application only) Finish should be 626 or 628 based on application.			Integration and capability with existing campus wide access control system, equipment and required functionality. Also limits the number of replacement parts stocked and reliability.
Mechanical Door Hardware				
Locksets	Best US26D Finish			Limit number of replacement parts that must be stocked to service campus
Closers, Swing Doors	LCN, 629 Finish			Limit number of replacement parts that must be stocked to service campus
Panic Hardware and Strikes	Von Duprin			Limit number of replacement parts that must be stocked to service campus
Fire rated Exit Devices	Von Duprin 626, 628 Finish based on application			Limit number of replacement parts that must be stocked to service campus Limit number of replacement parts that must be stocked to
Keys	Schlage, Best			service campus
Cores	Schlage, Best (in small format interchangeable core only)			
Power Operators Doors	LCN 4630, 4640, Senior Swing 9542, 9531, 629 Finish Alternate: Horton 4500 Series Bottom Access based on application			Limit number of replacement parts that must be stocked to service campus

Item	Manufacturer	Comments	Justification
			Limit number of replacement parts that must be stocked to
Automated Doors	Record, Hunter	Reduce spare parts inventory	service campus
			Compatibility with existing sytems and campus 911 center, ease
	FCI Intelligent Addressable Series, Notifier Intelligent		of maintenance of spare parts; staff training; IT system
Fire Alarm Controls	Addressable Series, Simplex Intelligent Addressable Series		compatibility
Fire Alarm Dialers	Firelite MS-10UD		Functional integration with campus telephone system
et a transfer	Marallan	Deduce contain and inventor	Reduce spare parts inventory, maintain standard appearance
Fire Hydrants	Mueller Trans McCorrigo Verla	Reduce spare parts inventory	and functionality on campus
Chillers	Trane, McQuay, Carrier, York		Reliability and long term experience by major manufacturers
Cooling Towers (<1000 tons)	Evapco, Marley, BAC		
Steam PRV'S	Spence		Functionality, reliability, maintenance of spare parts
Steam FRV 3	Spence	Need dependable, high	I directionality, reliability, maintenance of spare parts
		performance valves for	
		underground direct bury	
Underground Chilled Water Valves	Mueller, Watts, Vulcan and Apollo	installations.	Reduce spare parts inventory, functionality and reliability
Chaorgicana Chinoa Water Varios	industry, value, valuariana ripono	inotaliditorio.	reduce spare parts inventory, ranstionality and reliability
Elevator			
			Non proprietary control system that allows maintenance by any
Elevator Controls	Motion Control Engineering (MCE)		elevator control vendor
	g ()		
Elevator Telephone	Gaitronics Model 297		Compatibility with campus telephone systems, functionality
Digitized Floor Annunciator	CE Electronics, Inc.		
	Access Control System- Software House International		
	Card Reader - HID		
Card Access System	Video - DVTel/ Pelco		
Steam Conduit Systems	Ricwil, Rovanco, Perma-Pipe, Thermacor		Compatibility with existing systems.
Meters			
			Staff knowledge and proven track record of maintenance and
Condensate	Niagra Meter with SS construction		performance.
			Staff knowledge and proven track record of maintenance and
Steam	Micrometer V-cone with carbon steel construction		performance.
			Staff knowledge and proven track record of maintenance and
Chilled Water	Micrometer V-cone with stainless steel construction		performance.
			Staff knowledge and proven track record of maintenance and
City Water	Hersey, Badger or AMCO compound style		performance.
			Staff knowledge and proven track record of maintenance and
Electricity	Nexus 1262		performance.
		Proven performance and	
1		maintenance by listed	Staff knowledge and compatibility with existing inventory. Proven
Generators	Onan, Kohler, Katolight, Caterpillar or Cummins	manufacturers	track record of maintenance and performance.
L		Both Johnson and Schneider	Compatibility with existing systems; staff training, compatibility
Building HVAC Controls	Johnson Controls, Inc., Schneider Electric	must be listed as preferred alts.	with campus IT system

Item	Manufacturer		Comments	Justification
Telecommunications Components	Wiremold, Leviton, Corning, Cooper B-Line, Superior Essex, Commscope, Gai-Tronics		Manufacturer specific to particular telecom component. Almost all were selected via public RFP process (2010). Matrix of specific sole source items available as part of NCSU University Wirinn Standard, Section 27 06 00 at http://oit.ncsu.edu/physicallayer/uws-3.	Compatibility with existing systems, staff training, maintenance stock efficiency. End to end system warranties.
Flooring				Staff knowledge, maintain existing supply inventory, increased
Flooring Sealer	Plaza Plus Floor Sealer			durability, lower maintenance needed, functions as Finish and Sealer Staff knowledge, maintain existing supply inventory, increased
Flooring Finish	Johnson diversey Vectra High Perfomance Floor Finish			durability, lower maintenance needed, functions as Finish and Sealer
Flooring Finish Flooring Stripper	or Aquaria Floor Finish Johnson Diversey Freedom Stripper			Staff knowledge, maintain existing supply inventory, More effective at removing finish/sealer, low odor
Toilet and Bath Accessories	Sommon Brondoy Freedom Chipper			onocivo actomoving inicipodator, low oddi
Toilet Tissue Dispenser	Kimberly-Clark PROFESSIONAL Cored JRT Combo Unit Bathroom Tissue Dispenser. Smoked transparent cover. Product #09551. Dimensions: 20.43" X 13.12" X 5.8". Suggested mounting height: 30" Kimberly Clark/Scott Hands free Jumbo Paper Towel Dispenser		Vendor: UNISOURCE,INC 1070 E Waterfield Di. Garner, NC Office: 919-661-3943 Vendor: UNISOURCE, INC.	Stocking, replacement parts, and refills
Hand Towel Dispenser	Surface Mount Model #9990 Smoked transparent cover, grey body Dimensions: 16.1"X12.6"X10.2" - suggested mounting height: 52"	~	1070 E Waterfield Drive, Garner, NC Office: 919-661-3943	Stocking replacement parts and refills
Hand Soap Dispenser	GOJO FMX_12 1250 ML Dispenser Model: # 5150-06 Dimensions: 6.25"X5"X10" suggested mounting height: 8" above counter or 52" above floor	50/0	Vendor: UNISOURCE, INC. 1070 E Waterfield Drive, Garner, NC Office: 919-661-3943	Stocking replacement parts and refills
Hand Soap Dispenser or Shower Body \	GOJO FMX-20 2000 ML Dispenser Model: # 5250-06 Dimensions: 11.9"X6.8"X5.1" Suggested mounting height: 8" above counter, 52" above floor	50/0	Vendor: UNISOURCE, INC. 1070 E Waterfield Drive, Garner, NC Office: 919-661-3943	Stocking replacement parts and refills
Sanitary Napkin Disposal	Bobrick Contura Series Surface-mounted Sanitary Napkin Disposal Model B-270			Customer purchases unit Housekeeping provides Napkin Receptacle Bags

1	Item	Manufacturer		Comments	Justification
		Bobrick Trim line Series Surface Mounted Sanitary Napkin/Tampon Vender Model B2800 with 25 cents operation. Satin Finish Stainless Steel - Suggested mounting height: 19"	50 0		Customer purchases unit and pays all refill costs