



SKANSKA



SMITHGROUP JJR

Brock Environmental Center

Materials Tracking Spreadsheet

Nov, 2015

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CSI MASTER FORMAT NUMBER	SPEC SECTION/PRODUCT	ZONE		MANUFACTURER INFORMATION			PRODUCT INFORMATION					NOTABLE PRODUCT?			SUPPORTING DOCUMENTS				
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1	GENERAL REQUIREMENTS	X	X																
015000	TEMPORARY FACILITIES AND CONTROLS																		
	Temporary Facility: Site Lighting					1400	GreenWay Series (GY) 10/10	63	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	Y	Y	N
	Temporary Facility: fencing											I14-E6							
	Temporary Facility: tree protection											I14-E6							
	Temporary Facility: project sign											I14-E6							
	Temporary Facility: formwork						(reused)												
3	CONCRETE	1	500 km																
033000	CAST-IN-PLACE CONCRETE																		
	2.4/2.12 *Ready-Mix Concrete*					27	Titan	Norfolk, VA					N	Y	N/A	N	Y	Y	N
							Fly Ash-Proash, Class F		Fly ash	Roxboro, NC	273	N/A	N/A	N/A	N/A	N	N/A	N/A	N
							Type III Cement		Cement	Cloverdale, VA	352	N/A	N/A	N/A	N/A	N	N/A	N/A	N
							2/4" LTW Aggregate		Aggregate	Salisbury, NC	424	N/A	N/A	N/A	N/A	N	N/A	N/A	N
							#57 Stone		stone	Harve De Grace, MD	299	N/A	N/A	N/A	N/A	N	N/A	N/A	N
							#7 Stone		stone	Harve De Grace, MD	299	N/A	N/A	N/A	N/A	N	N/A	N/A	N
							Natural Sand		sand	Petersburg, VA	131	N/A	N/A	N/A	N/A	N	N/A	N/A	N
							Well Water		water	Norfolk, VA	27	N/A	N/A	N/A	N/A	N	N/A	N/A	N
	2.5 *Concrete adMixture*																		
						470	Sika	Lyndhurst, NJ	Plastiment	sodium salt of organic acid mixture	N/A	N/A	N/A	N/A	N	N/A	N/A	N	Y
						470	Sika	Lyndhurst, NJ	Plastocrete 161	Aqueous solution: Triethanolamine	N/A	N/A	N/A	N/A	N	N/A	N/A	N	Y
						470	Sika	Lyndhurst, NJ	Sika AEA-14	Aqueous solution	N/A	N/A	N/A	N/A	N	N/A	N/A	N	Y
						470	Sika	Lyndhurst, NJ	Skika CNI	Calcium nitrite Solution	N/A	N/A	N/A	N/A	N	N/A	N/A	N	Y
						470	Sika	Lyndhurst, NJ	Sika Stabilizer 4R	Propylene Glycol, Water, Proprietary Ingredient	N/A	N/A	N/A	N/A	N	N/A	N/A	N	Y
						470	Sika	Lyndhurst, NJ	Sika ViscoCrete 2100 RT	Polycarboxylate solution	N/A	N/A	N/A	N/A	N	N/A	N/A	N	Y
						470	Sika	Lyndhurst, NJ	Skika NC	Proprietary Ingredient and water	N/A	N/A	N/A	N/A	N	N/A	N/A	N	Y
						470	Sika	Lyndhurst, NJ	Skika Fiber PPF	Non-Releasing Fiber and others	N/A	N/A	N/A	N/A	N	N/A	N/A	N	Y
	Concrete Accessories																		
	2.1 Concrete Form Release					789	Dayton	Miamisburg, OH	Magic Kote®	Distillates (petroleum) and Residual Oils (Petroleum)	N/A	N/A	N/A	N/A	N	N/A	N/A	N	Y
	2.1 Concrete Column Form					352	Newwork	York, PA	Newform Weather Shield Concrete Column forms	Recycled paperboard, adhesive and ink	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y
	2.2 Rebars					492	CMC STEEL	Gastonia, NC	Epoxy Rebar	Scrap metal and alloy and ocating	N/A	N/A	N/A	N/A	N	Y	N/A	N	N
	2.2 Rebars					234	CMC STEEL	Fredericksburg, VA	Black Rebar	Scrap metal and alloy	N/A	N/A	N/A	N/A	N	Y	N/A	N	N
	2.2 Rebar Tie Wire Epoxy Coating					1149	Innovene	Chicago, IL	polyethylene (HDPE) homopolymer	polyethylene	N/A	N/A	N/A	N/A	N	N/A	N/A	N	N
	2.2 Rebar Epoxy Coating					1707	Valspar	Ninneapolis MN	720A009 Greenbar® Powder Coating	Epoxy Resin, Epoxy Amine Curing Agent, Titanium Dioxide Bisphenol A, Amorphous Silica, Proprietary Additives, Pigments and Minor Ingredients, 2-Methylimidazole	N/A	N/A	N/A	N/A	N	N/A	N/A	N	Y
	2.2 Rebar Tie Wire					469	Mar-Mac Wire, Inc.	McBee, SC	Premium Plastic Coated Coil Wire - 16 & 16.5 ga.	Carbon, Chromium, Manganese, Molybdenum, Silicon, Boron	N/A	N/A	N/A	I14-E6	N	N/A	N/A	N	Y
	2.3 Rebar Epoxy Touch-up Paint					715	Krylon Tough Coat	Cleveland, OH	KRYLON® Industrial TOUGH COAT™ Epoxy, Rebar Green	Propane, Butane, Toluene, Acetone, Titanium Dioxide	N/A	N/A	N/A	N/A	N	N/A	N/A	N	N
(072500)	2.6 Sheet Vapor Barrier					2214	Interplast Group	Lolita, TX	Barrier Bac VB-350 XF film	Polyethylene, Proprietary ingredients	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y
	2.6 Waterstop					1651	Dayton	kansas City, KS	Waterstop	hydraulic Cement, Silica Sand, Proprietary Ingredients	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y

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	2.6 Rewettable Latex Bonding Agent for Concrete		Euclid Chemical	Kirkland, IL	1248	Tammsweld	Ethylene Vinyl Acetate Copolymer, Ethylene Glycol, Vinyl Acetate, Water	N/A	N/A	N/A	N/A	N	N/A	N/A	N	Y	N	N
033053	MISCELLANEOUS CAST-IN-PLACE CONCRETE FOR SITE WORK																	
	2.10 Wheel Stops		salvaged from Century Concrete yard	15.5 km distance from site														
4	MASONRY	1	500 km															
042200	CONCRETE UNIT MASONRY																	
	CMU		Allied Concrete Products	Chesapeake, VA	20	Concrete Masonry Units	/	/	/	N/A	N/A	N	Y	N/A	N	Y	N	N
							Carolina Stalite	Gold Hill, NC	301									
							Cement	Cloverdale, VA	301									
							Concrete screenings	Petersburg, PA	80									
							sand	Petersburg, PA	80									
	Motor		Lehigh Cement Gompany LLC	Union Bridge, MD	320	Motor/Grout	portland cement	Union Bridge, MD	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	Wall Reinforcement		Hohmann & Barnard															
5	METALS	1	500 km															
051200	STRUCTURAL STEEL FRAMING																	
	2.1 Structural Steel materials		Hanna Steel	Northport, AL	1130	5' x10' x0.375"	steel	N/A	N/A	N/A	N/A	N	N	N/A	N	N	N	N
	2.1 Structural Steel materials		Steel Dynamics	Roanoke, VA	355	3" x 3/8" flats; 2" x 3/8" flats, 4" x 1/2" flats, 6"x1/2" flats, 4"x4"x3/8" angle	steel	N/A	N/A	N/A	N/A	N	N	N/A	N	N	N	N
	2.1 Structural Steel materials		Nucor	Darlington, SC	453	3"x3"x1/4" angle, 3"x3"x3/8" angle, 4"x3"x5/16" angle, 4"x4"x1/2" angle, 5"x3"x1/2" angle, 5"x5"x5/16" angle, 6"x4"x3/8" angle, 7"x1/2" flat.	steel	N/A	N/A	N/A	N/A	N	N	N/A	N	N	N	N
	2.1 Structural Steel materials		Nucor	Winton, NC	85	8x20' x0.375" plate; 8x20'x1/2" plate, 8x20'x3/4" plate, 8x20'x1" plate, 8x20'x1-1/2" plate	steel	N/A	N/A	N/A	N/A	N	N	N/A	N	N	N	N
	2.1 Structural Steel materials		Nucor	Mt, Pleasant, SC	574	W10x20, WT5x11, WT 5x7.5	steel	N/A	N/A	N/A	N/A	N	N	N/A	N	N	N	N
	2.1 Structural Steel materials		Gerdau	Petersburg, VA	131	8"x6"x1/2" angle, W8x35, W12x26, W12x40, W14x34, W14x61, W18x46, W27x84	steel	N/A	N/A	N/A	N/A	N	N	N/A	N	N	N	N
	2.2 Bolts, Connectors and Anchors																	
	2.3 Structural Steel Primer (also in 099123)		Sherwin Williams	Cleveland, OH	714	Peo-Cryl universal Acrylic Primer	Water, Acrylic Polymer, Calcium Carbonate Titanium Dioxide, 1-(2-Butoxymethylethoxy) propanol, Calcinced Clay Mineral Spirits, Bentonite, Sodium Nitrite, Ammonia, Benzisothiazolone	N/A	N/A	N/A	N/A	N	N/A	N/A	N	Y	Y	N
	2.4 Grout		Kaufman Products, Inc	Baltimore, MD	268	SureGrout	Portland Cement and sand	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.9 Steel Thermal break																	
053100	STEEL DECKING																	
	2.2 Acoustical Roof Deck		Nucor Corp (Vulcraft Group)	Florance, SC	454	3NA Acoustical Deck	steel	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	N
(072000)	2.2 A coustical batt for deck		Knauf Insulation	Shelvyville, IN	884	KN insulation	Glass Mineral Wool, Dextrose, Ammonium Sulfate, Ammonia, Mineral Oil, Silane	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.3 Composite Floor Deck		Camden Yards Steel	Camden, NJ	350	6" x10" x1/2" sheet	steel	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	N

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	2.4 Accessories: Galvanizing Repair Paint			Rustoleum	Vernon Hills, IL	1189	flat Galvanizing Compound	Zinc, Toluene, Liquefied Petroleum Gas, Mineral Spirits, Stoddard Solvent, Ethylbenzene	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	Y	N	
054000	COLD-FORMED METAL FRAMING																			
	2.3 Cold Formed steel Framing			ClarkDietrich Building System	Baltimore, MD	395	Non structural and cold form metal framing products and accessories (T200 Structural Track, Prostud Drywall Stud, Track, Furring Channel, L angle)	Iron and alloying elements	Fairless Hills, PA	180	N/A	N/A	I11-E16	N	Y	N/A	N	Y	Y	N
	2.8 Framing Accessories, Anchors, Clips and Fasteners																			
055000	METAL FABRICATIONS																			
	2.3 Fasteners																			
	2.7 Metal Ship Ladder			Osborne Welding, Inc	Portsmouth, VA	29	Metal Ship ladder	carbon Steel	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	Y	N	
	Woven-Wire Mesh			Osborne Welding, Inc	Portsmouth, VA	29	Woven Wire Mesh	carbon Steel	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N	
055213	PIPE AND TUBE RAILINGS																			
	2.2 Steel Tubing			Bull Moose Tube	Chesterfield, MO	1299	TS 8"x6"x3/8", TS 3"x3"x1/4" TS 10"x5"x3/8"	steel	N/A	N/A	N/A	N/A	N	N	N/A	N	N	N	N	
	2.2 Steel Tubing			Independence Tube	Chicago, IL	1268	TS 14"x10"x1/2", TS 6"x6"x3/8", RS 6"x4"x1/2", TS 5"x5"x3/8", TS 9"x7"x1/2", TS 5"x5"x3/8"	steel	N/A	N/A	N/A	N/A	N	N	N/A	N	N	N	N	
	2.2 Steel Tubing			Southland Tube	Birmingham, AL	1052	12" schedule 80 pipe, 8" schedule 80 pipe, TS 8"x6"x3/8", TS 6"x6"x3/8", TS 6"x4"x1/2", TS 5"x5"x3/8", TS 4"x4"x5/16"	steel	N/A	N/A	N/A	N/A	N	N	N/A	N	N	N	N	
	Steel/Galvanized metal substrates: primer			Sherwin Williams	Cleveland, OH	280	Pro Industrial Pro-Cryl Universal Acrylic Primer, off white	water, acrylic polymer, calcium carbonate, titanium Dioxide, calcined clay, mineral spirits, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N	
(055000)	2.2 Woven-Wire Mesh			(see 055000)																
055300	METAL GRATINGS																			
	2.2 Fasteners																			
	2.4 stainless steel Metal Bar Gratings and frames			see 124815																
6	WOOD, PLASTICS, AND COMPOSITES																			
061000	ROUGH CARPENTRY																			
	2.3/2.4 Dimension Lumber Framing: structural lumbers, including plywood			Potlatche	Warren, Arkansas	1504	Structural Dimensional Luber Southern Yellow Pine includes plywood	Yellow Pine	Warren Arkansas	0	FSC-C005430	Zone Jump & FSC Mixed	N	Y	Y	N	Y	N	N	
	2.2 Dimension Lumbers (PT Lumber)			Hoover	Thomson, Georgia	702	Pressure Treated Structural Dimensional Lumber Southern Yellow Pine	Wood, Copper, Tebuconazole	Warren Arkansas	886	FSC-C008396	Zone Jump & FSC Mixed	N	Y	Y	N	N	Y	Y	
	2.5 Plywood Backing Panels			Roy O. Martin	Alexandria, Louisiana	1635	Structural Grade Plywood	SYP, Phenolic Resin	Alexandria, Louisiana	0	FSC-C022036	Zone Jump & FSC Mixed; I11-E11	N	Y	Y	N	N	Y	Y	
	2.6 Fasteners			Paslode	Vernon Hills, IL	1176	Duo Fast Nails	Plain Steel Zinc	N/A	N/A	N/A	I14-E6								
	2.6 Fasteners			Hilti	Oklahoma	1923	Powder act. Fastener	Plain Steel Zinc Plated	N/A	N/A	N/A	I14-E6								
	2.6 Fasteners			ITW Buildex	Itasca IL	1170	Wood to Wood and Wood to Metal Screws	Plain Steel Climaseal	N/A	N/A	N/A	I14-E6								
	2.6 Fasteners			Simposn	NC	82	A35 Clip	Plain Steel Zinc	N/A	N/A	N/A	I14-E6								
	2.6 Fasteners			Maze	Peru IL	1170	Maze Hand Driven Nails	Plain Steel Zinc	N/A	N/A	N/A	I14-E6								
	2.7 Metal Framing Anchors																			
	2.8 Misc: Sill Sealer Gaskets																			
061063	EXTERIOR ROUGH CARPENTRY (Elevated Decks)																			
	2.2 Dimension Lumbers (PT Lumber)			see 061000																
	2.3 Boards (decking and stair treads)			see 061000																

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	2.4 Preservative Treatment (In-Situ Treatment)		Poles, Inc	Cloumbus, NE	N/A	Terino Copper Naphthenate	Copper Naphthenate, #2 Diesel	N/A	N/A	N?A	N/A	N	Y	N/A	N	Y	N	N
	2.5 Fasteners																	
	2.6 Connection Hardware																	
061600	SHEATHING																	
	2.2 Preservative Treated Plywood		see 061000															
	2.3 Wall Sheathing		see 061000															
	2.4 Roof Sheathing		see 74113.16															
	2.5 Subflooring and underlayment		see 061000															
	2.6 Fasteners																	
(099000)	2.7 Misc: sealer (epoxy coating)		SystemThree	N/A	N/A	S-1 Sealer Part A	DGEBA, Xylene, Methyl Isobutyl Ketone	N/A	N/A	N/A	N/A	N	N/A	N/A	N	Y	Y	N
(099000)	2.7 Misc: sealer (epoxy coating)		SystemThree	N/A	N/A	S-1 Sealer Part B	Polyamide Resin, Xzylene, n-Butanol	N/A	N/A	N/A	N/A	N	N/A	N/A	N	Y	Y	N
062013	EXTERIOR FINISH CARPENTRY																	
	2.1 A4 Exterior Fence post and bracing		see 061000															
(074623)	2.4 Sinker Cypress Siding		Krantz	Austin, TX	2107	Krantz Recovered Woods	100% Cypress	Southern US	400	Salvaged	I14-E6	N	Y	N/A	N	Y	N	N
	2.3 Exterior Trim		see 061000															
	2.4 siding stain/coating (stain coat, intermediate coat)		(see 099300)			Cetol 1												
	2.4 siding stain/coating (topcoat)		(see 099300)			Cetol 23 plus												
	2.5 Misc: flashing		(see 076200)															
	Misc: sealants		Momentive	Waterford, NY	689	Momentive silpruf SCS 2002 Silpruf (white)	methyl trimethoxysilane, octamethylcyclotetrasiloxane, titanium dioxide, treated fumed silica, polydimethylsiloxane, dimethylpolysiloxane, calcium carbonate	N/A	N/A	N/A	N	N	Y	N/A	N	N	Y	Y
	2.5 Misc: Fence Gate Hardware																	
062023	INTERIOR FINISH CARPENTRY																	
	2.2 Interior Trim (bleacher wood)		Salvaged	Salem middle school	43													
	2.2 bleacher wood finish		See 081416 (Minwax)															
	2.3 Shelving and countertop		Salvaged, See 123460	HRSD	9													
	2.4 Misc: Fasteners																	
	2.4 Misc: Glue		Franklin International	Columbus, OK	703	Tiebond Original and Tiebond II Wood Glue	Water, Polyvinyl acetate diperson, Polyvinyl alcohol, Proprietary	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
	2.5 Misc: sealants		Momentive	Waterford, NY	689	Momentive silpruf SCS 2002 Silpruf (white)	methyl trimethoxysilane, octamethylcyclotetrasiloxane, titanium dioxide, treated fumed silica, polydimethylsiloxane, dimethylpolysiloxane, calcium carbonate	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	Y	Y
064023	INTERIOR ARCHITECTURAL WOODWORK																	
	Interior wood doors /counters (purebond Birch veneer plywood)		Columbia Forest Products	Old Fort, NC	573	Purebound	Wood inner (95%), water, soy flour,etc	N/A	160	FSC-RA-COC-000065	N/A	N	Y	N/A	N	Y	N	N
	Interior wood doors/counters (original FSC wood spply)		A&M supply coorporation	Greensboro, NC	352	FSC mix	wood	N/A	N/A	SCS-COC-001888								
	Interior wood doors/counters (door manufacturer)		Coastal Creations, INC	Virgina Beach, VA	22	Interior Architectural woodwork	/	N/A	N/A	SCS-COC-003998								
	2.2 Wood Cabinets		salvaged	Pembroke	22													
	Finish		See 081416 (Minwax)															
	titebond wood glue		Franklin International	Columbus, OH	703	Tiebond original and Tiebond II wood Glue	Water, Polyvinyl acetate dispersion, Polyvinyl alcohol, proprietary ingredients	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	Y	N

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	2.4 Misc: sealants	2	Momentive	Waterford, NY	689	Momentive silpruf SCS 2002 Silpruf (white)	methyl trimethoxysilane, octamethylcyclotetrasiloxane, titanin dioxide, treated fumed silica, polydimethylsiloxane, dimethylpolysiloxane, calcium carbonate	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	Y	Y	
	2.3 Cabinet Hardware and accessories		misc																
064113	WOOD-VENEER-FACED ARCHITECTURAL CABINETS		spec combined with 064023																
7	THERMAL AND MOISTURE PROTECTION																		
072100	THERMAL INSULATION																		
	2.1 XPS Rigid Insulation		Owens Corning	Talimadge,OH	875	Foamular 400 Rigid Foam Insulation	Polystyrene, Blowing agent (proprietary), HBCD Flame Retardant, Additives, Colorant	N/A	N/A	N/A	I11-E12	Y	N/A	N/A	N	N	Y	Y	
	2.3 Lose Fill Insulation		Owens Corning	Feura Bush, NY	660	Fiberglass insulation-unfaced	fiberglass wool, proprietary ingredients	N/A	N/A	N/A	N/A	N	N/A	N/A	N	N	N	Y	
	2.4 Insulation Fasteners									I14-E6									
072726	FLUID-APPLIED MEMBRANE AIR BARRIERS																		
	2.3 Vapor Permeable Membrane Air Barrier	Dupont	N/A	N/A	Dupont Tyvek Fluid Applied weather Barrier	proprietary polyer, Polyether Diol, Limestone, Precipitated Calcium Carbonate, Titanium Dioxide, Diamino Silane, Trimethoxyvinylsilane, Crystalline Silica	N/A	N/A	N/A	N/A	N	N/A	N/A	N	N	N	Y		
	2.3 Vapor Permeable Membrane Air Barrier	Dupont	N/A	N/A	Dupont Tyvek Fluid Applied Flashing and Joint Compound	proprietary polyer, Polyether Diol, Precipitated Calcium Carbonate, Titanium Dioxide, Diamino Silane, Trimethoxyvinylsilane	N/A	N/A	N/A	N/A	N	N/A	N/A	N	N	N	Y		
	2.3 Vapor Permeable Membrane Air Barrier	Dupont	N/A	N/A	Dupont Tyvek Fluid Applied Flashing-Brush Formulation	proprietary polyer, Polyether Diol, Precipitated Calcium Carbonate, Titanium Dioxide, Diamino Silane, Trimethoxyvinylsilane	N/A	N/A	N/A	N/A	N	N/A	N/A	N	N	N	Y		
	2.3 Vapor Permeable Membrane Air Barrier	Dupont	N/A	N/A	Dupont sealant for Tyvek Fluid Applied system	proprietary polyer, Polyether Diol, Limestone, Precipitated Calcium Carbonate, Titanium Dioxide, Crystalline Silica	N/A	N/A	N/A	N/A	N	N/A	N/A	N	N	N	Y		
	2.4 Accessory Material: self adhered flashing	Dupont	N/A	N/A	Dupont Straightflash	proprietary Butyl Compound, Polyethylene, Calcium Carbonate, Carbon Black	N/A	N/A	N/A	N/A	N	N/A	N/A	N	N	N	Y		
	2.4 Accessory Material: self adhered flashing	Dupont	N/A	N/A	Dupont Flexwrap NF	proprietary Butyl Compound, Polyethylene, Calcium Carbonate, Carbon Black	N/A	N/A	N/A	N/A	N	N/A	N/A	N	N	N	Y		
	primer	W.R. Grace	Cambridge, MA	742	Perm-A-Barrier WB primer	Diethylene Glycol Dibenzoate, Phenol, Propanol, Vinyl Acetate	N/A	N/A	N/A	N/A	N	N/A	N/A	N	N	N	Y		
07 31 00	METAL SHINGLES																		
073116	METAL SHINGLES																		

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	2.2 Zinc Shingles	2 5 3	1000 km 5000 km 2000 km	Jarden Zinc Product	Greeneville, TN	617	Zinc shingle tile	Architectural Zinc(Glacier Grey)	Glarksville, TN	408	N/A	N/A	N	Y	N/A	N	Y	Y	N		
	2.3 Underlayment: Furring Strips			Same as 074113.16 2.3																	
	2.3 Underlayment: Sheathing			Same as 074113.16 2.3																	
	Drainage Mat			Bonar Inc	Enka, NC	383	Enkamat 7010	Nylon6, High Viscosity Nylon 6, etc		N/A	N/A	N/A	N/A	N	Y	N/A	N	N	Y	Y	
	2.3 underlayment: Self-Adhering High Temperature, Non-Permeable Sheet Underlayment			Henry Company	Petrolia, ON, CANADA	852	PE 200 Blueskin HT	Asphalt, Petroleum, Mineral Oil, High Density Polyethylene, Rubber Compounds, Siliconized release paper		N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y	
	2.4 Insulation			same as 074113.16 2.3																	
	2.5 Accessories: Zinc Sheet Metal flashing and trim			same as 073116 2.2																	
	2.5 Accessories: Sheet Metal Fasteners																				
07 32 00																					
07 33 00																					
07 40 00																					
074113.16	STANDING-SEAM METAL ROOF PANELS																				
	2.2 Standing Seam Metal Roof Panels	CMP(Construction Metal Products, INC) purchase from Sheffield Metals	East Chicago, IN	1122	CMP S-1500 Standing Seam System	Iron (92%), Alloying Elements and Metallic Coating		N/A	N/A	N/A	114-E2 8/2008	N	N	N/A	N	Y	Y	N			
	2.3 Underlayment: a) slip sheet; b) self adheing, High Temperature underlayment	Vaproshield	Harbor, WA	3954	Slopesield SA	100% flash, spun bonded, high density polypropylene fabric and adhesive (<1%)		N/A	N/A	N/A	N/A	N	N	N/A	N	Y	Y	N			
(072020)	2.3 Underlayment: insulated Nailbase	Hunter Panels	montgomery, NY	415	Plywood and 1" solid wood spacers	FSC 100% WD		N/A	N/A	SCS-COC-004403	N/A	N	N	Y	N	Y	N	N			
(072020)	2.3 Underlayment: insulated Nailbase	Hunter Panels	montgomery, NY	415	Polyisocyanurate insulation	Methylene di-isocyanate, proprietary Polyol blend, Chlorinated Fire retardant blend		N/A	N/A	N/A	I11-E12	N	N	N/A	N	N	N	Y			
(072020)	2.3 Underlayment: insulation	Hunter Panels	montgomery, NY	415	H Shield flat Polyisocyanurate insulation	Methylene di-isocyanate, proprietary Polyol blend, Chlorinated Fire retardant blend		N/A	N/A	N/A	I11-E12	N	N	N/A	N	N	N	Y			
	2.3 Underlayment: substrate board	Georgia-Pacific DensDeck	Savanah, GA	708	H Shield flat Polyisocyanurate insulation	Gypsum, Continuous Filament Glass Fiber		N/A	N/A	N/A	I11-E11/E16	N	N	N/A	N	N	Y	Y			
	2.4 Misc: flashing and trim	same as SSMR																			
	2.4 Misc:Tapes	DOW	Midland, MI	N/A	Weathermate Construction Tape						I14-E6										
	2.4 Misc:fasteners	Triangle Fastener Corp	Pittsburgh, PA	533	TFC butyl Tape Seal	Isobutylene					I14-E6										
	2.4 Misc:fasteners	Triangle Fastener Corp	Pittsburgh, PA	533	Fasteners, bolts, stamping	Carbon/Stainless Steel					I14-E6										
	2.4 Misc: Panel Sealant	Pecora Corporation	Harleysville, PA	381	Pecora 895 NST	Calcium Carbonate, Polydimethylsiloxane 50N, Finesd Silica, Proprietary ingredients		N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y			
07 50 00																					
075323	ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING																				
	2.1 EPDM	Firestone Building Products: EcoWhite	Indianapolis, IN	946	RubberGard EcoWhite EPDM Membrane	proprietary		N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y			
	2.2 EPDM Accessories	Firestone Building Products: EcoWhite	Indianapolis, IN	946	EcoWhite Splice Wash SW-100	aliphatic Petroleum Distillates		N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	Y	N			
	2.2 EPDM Accessories	Firestone Building Products: EcoWhite	Indianapolis, IN	946	EcoWhite EPDM Lap Sealant	Calcium Carbonate - 35% Calcium Oxide- 25% Naptha-18% Titanium Dioxide-5% Bentonite-4% Proprietary-13%		N/A	N/A	N/A	N/A	N	Y	N/A	N	N	Y	Y			

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	2.2 EPDM Accessories		Firestone Building Products: EcoWhite	Indianapolis, IN	946	EcoWhite™ EPDM Splice Adhesive	Toluene – 52% n-hexane- 14% Xylene- 5% Polyisocyanurate- 1.8% Proprietary– 27.2%	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
	2.2 EPDM Accessories		Firestone Building Products: Quickseam	Indianapolis, IN	946	QuickSeam™ Reinforced Perimeter Fastening (RPF) Strip	Resin, Tiac, Calcium oxide and proprietary	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
	2.2 EPDM Accessories		Firestone Building Products: Quickseam	Indianapolis, IN	946	EcoWhite™ QuickSeam™ Pipe Flashing	Resin, Tiac, Calcium oxide and proprietary	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
	2.2 EPDM Accessories		Firestone Building Products: Quickseam	Indianapolis, IN	946	EcoWhite™ QuickSeam™ Splice Tape	Resin, Tiac, Calcium oxide and proprietary	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
	2.2 EPDM Accessories		Firestone Building Products: Quickseam	Indianapolis, IN	946	EcoWhite™ 12" QuickSeam™ Flashing	Resin, Tiac, Calcium oxide and proprietary	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
	2.2 EPDM Accessories		Firestone Building Products: Quickseam	Indianapolis, IN	946	QuickSeam Joint Cover	Resin, Tiac, Calcium oxide and proprietary	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
	2.3 Roof Insulation (Polyisocyanurate)		Firestone Building Products: Quickseam	Indianapolis, IN	946	ISO 95+™ GL Insulation	n-pentane- 5 Ethylmethelmethane- 4.5 Tris Phosphate- 5 Fibrous Glass -11 Proprietary ->79	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	Y	Y
	2.4 Roof Insulation Accessories		Firestone Building Products:	Indianapolis, IN	946	LVOC single ply bonding adhesive	Acetic acid,tert-butyl ester, Toluene, Phonic Resin, Acetic Acid, Methylene Ester, Proprietary	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	Y	Y
	2.4 Roof Insulation Accessories		Firestone Building Products:	Indianapolis, IN	946	quickprime Plus LVOC	BENZENE,1 CHLORO-4, TOLUENE, PROPRIETARY	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
	2.4 Roof Insulation Accessories		Firestone Building Products:	Indianapolis, IN	946	Insulation Fastening Plate												
	2.4 Roof Insulation Accessories		Firestone Building Products:	Indianapolis, IN	946	Heavy Duty Fastener												
	2.4 Roof Insulation Accessories: Cover Board		Georgia-Pacific Gypsum	Savannah, GA	708	Densdeck Prime Roof Board	Gypsum, Continuous Filament Glass Fiber	N/A	N/A	N/A	111-E11/E16	N	N/A	N/A	N	N	Y	Y
	paint on EPDM gutter		Firestone Building Products	Indianapolis, IN	946	Acylitop PC 100 Base Coating	Ethylene Glycol, Titanium Dioxide, Zinc Oxide, Proprietary	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
076200	SHEET METAL FLASHING AND TRIM																	
	2.1 Sheet Metal					same as 074113.16 2.2 SSMR												
	2.2 Misc: Sealant		Franklin	Columbus, OH	703	Titebond Weathermaster Metal Roof Sealant	Calcium Carbonate, Dye, Proprietary ingredients	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
	2.2 Misc: Sealant (polyurethane)		Pecora	Harleysville, PA	458	Dynatrol I-XL	Carbonate Silearic Acid, Plasticizer, Perpolymer, Fumed Silica, Proprietary	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
	2.2 Misc: adhesive		see 074113.16															
	2.2 Misc: Gutter Hanger																	
	2.2 Misc: Downspout straps																	
	2.2 Misc: Fasteners																	
	2.4 Roof Drainage Sheet Metal: Gutters		same as 074113.16 2.2 SSMR															
	2.4 Roof Drainage Sheet Metal: downspout(conductor), including elbow and outlet		same as 074113.16 2.2 SSMR															
	2.4 Leaf Screen		see 073116 (Zinc)															
	2.4 Rainhandler		Savetime Corporation	Bridgeport, CT	540	Rainhandler Rain Dispersal System	Aluminum, Magnesium, Manganese	N/A	N/A	N/A	N/A	N	N/A	N/A	N	Y	Y	N
079200	JOINT SEALANTS																	
	2.2 Silicone Joint Sealant (J5-S1: exterior, vertical and horizontal non traffic surface)		(Momentive, see 062013)															
	2.3 Weather Barrier Sealants (J5-W1: exterior weather Barrier joints)		(Dupont Joint, see 072726)															
	2.4 Urethane Joint Sealants (J5-U2: exterior, Horizontal traffic surface)		BASF	Shakopee, MN		Sonolastic NP 2												
			BASF			NP2 Finish	limestone, Calcium Carbonate, Crystalline silica	N/A	N/A	N/A	N/A	N	N/A	N/A	N	N	Y	Y

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		2 1000 km 5 5000 km																		
	2.6 Joint Selant Backing			Industrial Thermo Polymers Limited (ITP)	Brampton , ON, Canada	1325	ITP Backer Rod	Polyethylene	N/A	N/A	N/A	N/A	N/A	Y	N/A	N/A	N	N	N	Y
079500	EXPANSION CONTROL																			
	2.3 Interior Expansion Control System			Balco	Wichita, Kansas	1890	GCWW series Expansion Joint cover	Aluminum, Santoprene face seal	N/A	N/A	N/A	N/A	N/A	Y	N/A	N/A	N	N	N	Y
	2.3 Interior Expansion Control System			Balco	Wichita, Kansas	1890	EPDM sheet	EPDM	N/A	N/A	N/A	N/A	N/A	Y	N/A	N/A	N	Y	N	N
	2.3 Interior Expansion Control System			Balco	Wichita, Kansas	1890	Santoprene Gasket	Santoprene	N/A	N/A	N/A	N/A	N/A	Y	N/A	N/A	N	Y	N	N
	2.3 Interior Expansion Control System			Balco	Wichita, Kansas	1890	Santoprene face seal	Santoprene	N/A	N/A	N/A	N/A	N/A	Y	N/A	N/A	N	Y	N	N
	2.3 Interior Expansion Control System			Balco	Wichita, Kansas	1890	PS series	Aluminum and Steel	N/A	N/A	N/A	N/A	N/A	Y	N/A	N/A	N	Y	N	N
	2.4 exterior expansion control system		Balco	Wichita, Kansas	1890	FCWW series Expansion Joint cover	Aluminum, Santoprene face seal and back seal	N/A	N/A	N/A	N/A	N/A	Y	N/A	N/A	N	N	N	Y	
	2.4 exterior expansion control system		Balco	Wichita, Kansas	1890	BCSW seal	polyurethan foam, cured silicone facing	N/A	N/A	N/A	N/A	N/A	Y	N/A	N/A	N	Y	N	N	
	2.4 exterior expansion control system		Balco	Wichita, Kansas	1890	Epoxy Abrasive	Epoxy Resin, Curing Agent, Fumed Silica, Aggregats, Aluminum Oxide	N/A	N/A	N/A	N/A	N/A	Y	N/A	N/A	N	Y	N	Y	
	2.4 exterior expansion control system		Balco	Wichita, Kansas	1890	D series	Aluminum, Steel and Santoprene	N/A	N/A	N/A	N/A	N/A	Y	N/A	N/A	N	Y	N	Y	
8	OPENINGS																			
	Interior	2																		
	Exterior	5																		
081113.13	STANDARD HOLLOW METAL DOORS AND FRAMES																			
	2.2 Exterior Hollow Metal Doors and Frames, factory finished		ASSA ABLOY	Mason City, IA	1623	Tiio-E Steel Stiffened Hollow Metal Door	Steel and insulation core	N/A	N/A	N/A	N/A	N/A	Y	Y	N/A	Y				
	2.3 Frame Anchors																			
	2.7 Accessories: Mullions and transom Bars																			
081416	FLUSH WOOD DOORS																			
	Door		Salvaged	HRSD (Hampton Road Sanitation District)	9															
	Door finish		Minwax	Upper Saddle River, NJ	495	Minwax Wood Finish, Ipswich Pine	Med Aliphatic Hydrocarbon Solvaent, Heavy Naphthenic Petroleum Oil, Titanium Dioxide, Hydrocarbon Resin, Modified Linseed Oil, Iron Hydroxide Oxide	N/A	N/A	N/A	N/A	N/A	N	N/A	N/A	N	Y	N	N	
	Door Frame		ASSA ABLOY	Mason City, IA	1623	Tiio-E Steel Stiffened Hollow Metal Door	Steel and insulation core	N/A	N/A	N/A	N/A	N/A	Y	Y	N/A	Y				
	Primer		See 099123																	
081433	STILE AND RAIL WOOD DOORS																			
	2.2 Interior Stile and Rail Wood Doors		salvaged	Newport News VA	50															
	2.5 Door finishing		(see 081416)																	
	Primer		See 099123																	
083113	ACCESS DOORS AND FRAMES																			
	2.1 Access Doors and Frames		Nystrom	Minneapolis, MN	1704	Access Door NWR/WNT series	Cold Roll Steel	Brooklyn Park, MN	10	N/A	N/A	N/A	N	N/A	N/A	N	Y	N	N	
	2.4 Finishes		see 099123																	
085415	FIBERGLASS WINDOWS AND DOORS																			
	2.3/2.5 Aluminum claddd wood Windows and doors		Intus	Lithuania	7329	Intus Premier 78 Alu Mira Window and Door	aluminum cladding, painted frame, IGU, Gaskets, Hinge, hardware,	N/A	N/A	N/A	N/A	N/A	N	N	Y	N	N	N	Y	
	Exterior Paint		IGP	Vilnius, Lithuania	N/A	Exterior coating on aluminum cladding	Proprietary	N/A	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y	
	Wood frame and sash		Rudupis UAB	Alytus, Lithuania	N/A	Wood windows and Doors	Wood	Prienai, Lithuania	27	RA-Coc-006840	N/A	N	Y	Y	N	N	N	Y		
	Wood stains		Remmers	Vilnius, Lithuania	N/A	Induline	Proprietary	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y		
	IGU (tempered and non-tempered)		UAB SKP Stiklas	Kaunas, Lietuva	N/A	Insulated Glas Units	PVB laminated film and Proprietary ingredients	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y		
	Flat Glass		Gardian	N/A	N/A	Glass	Glass	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N		
	Window Hardware																			
	2.3 Window Operating System		Clearline																	

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	2.4 Insect Screen	2																	
087100	DOOR HARDWARE & SCHEDULE																		
	2.3 Hinges																		
	2.4 Cylindrical Locks			Phantom															
	2.5 Exit Devices			McKinney															
	2.5 Removable Mullions			Sargent (ASSA ABLOY)	New Haven, CT	561	10 line lever Lock with Degree 60 series Key system (Mortise Cylinders)	Steel, Brass, Zinc	N/A	N/A	N/A								
	2.6 Power Supplies (electrical strike)			Sargent (ASSA ABLOY)	New Haven, CT	561	90 Series Exit Devices (Rim, trim, and accessories)	Steel, Brass	N/A	N/A	N/A								
	2.7 Cylinders			Sargent (ASSA ABLOY)	New Haven, CT	561	40 series Motise Cylinder	Steel, Brass, Zinc	N/A	N/A	N/A								
	2.8 Key Control System			Sargent (ASSA ABLOY)	New Haven, CT	561	Keypad Entry Lock with Degree 60 series Key system (Mortise Cylinders)	Steel, Brass, Zinc	N/A	N/A	N/A								
	2.9 Door closer			Sargent (ASSA ABLOY)	New Haven, CT	561	281 Series Powerglide Door Closer	Aluminum, Cast Iron, Brass, Hydraulic Fluid	N/A	N/A	N/A								
	Magnalock			Securitron (ASSA ABLOY)	N/A	N/A	M680BDX	Aluminum, Cast Iron, Brass, Hydraulic Fluid	N/A	N/A	N/A								
	Exit Button			Securitron (ASSA ABLOY)	N/A	N/A	EEB exit Button	Aluminum, Cast Iron, Brass, Hydraulic Fluid	N/A	N/A	N/A								
	2.10 Electro-Mechanical Closer/Holders			Norton (ASSA ABLOY)	Monroe, NC	461	5900 Series X-in Door operator	Aluminum, steel, electrical control board	N/A	N/A	N/A								
	2.11 Electro-Mechanical automatic operators			Norton (ASSA ABLOY)	Monroe, NC	461	533 Actuator	Aluminum, Steel, Electronics	N/A	N/A	N/A								
	2.12 Door trim			Rockwood (ASSA ABLOY)	Rockwood, PA	439													
	2.13 Protection Plates			Rockwood (ASSA ABLOY)	Rockwood, PA	439	Door plate	Stainless Steel/Aluminum	N/A	N/A	N/A								
	2.14 Door stops and holders			Rockwood (ASSA ABLOY)	Rockwood, PA	439													
	2.15 Thresholds, seals, door sweeps, door bottom			PEMCO (ASSA ABLOY)	Memphis, TN	1279	Adhesive Gaskets	silicone	N/A	N/A	N/A								
	2.15 Thresholds, seals, door sweeps, door bottom			PEMCO (ASSA ABLOY)	Memphis, TN	1279	Thresholds	Brass/Bronze and thomoseal	N/A	N/A	N/A								
	2.15 Thresholds, seals, door sweeps, door bottom			PEMCO (ASSA ABLOY)	Memphis, TN	1279	Door Bottom	Aluminum	N/A	N/A	N/A								
	2.16 Silencers			Rockwood (ASSA ABLOY)	Rockwood, PA	439													
	Automatic flush bolts			Rockwood (ASSA ABLOY)	Rockwood, PA	439	Lever Extension Flush Bolt	Brass	N/A	N/A	N/A								
	2.17 Sliding door hardware			Hager Companies (see 087100)															
	2.19 Di-Fold Door hardware			Hager Companies (see 087100)															
				Hirsch Electronics			GIGI TRAC Model 8 Controller												
				Hirsch Electronics			Expansion Boards and Modem												
				Altronix			AL 1024ULX Power Supply/Charger												
				DITEK			DTK-HW Sewries Dedicated circuit Sruge Protector												
			Hirsch Electronics			MATCH intelligent Reader Interface													
			Hirsch Electronics			Card Reader													
088000	GLAZING																		
	2.2 glass products (Interior openings)		Oldcastle BuildingEnvelope (Guardian Industries Corp)	Marston , NC	375	Floating Glass	Glass Oxide	N/A	N/A	N/A									
	2.4 glazing sealants		Momentive	Waterford, NY	689	GE brand GE 5000 silicone II window and door clear sealant	Reinforcing filler, Pigments, silicones based ingredients	N/A	N/A	N/A									
089119	FIXED LOUVERS																		
	2.3 Fixed, extrude-aluminum Louver (with Screen)		American Warming and Ventilating	Bradner, OH	813	LE-22	Aluminum, Stainless steel hardware,	Niles, OH	223	N/A									
	2.5 Blank-off Panels		The Techs	pittsburgh, PA	716	Sheet Metal	Iron, Zinc, Manganese, Nickel			N/A									
	blank off panel sealant		Design Polymetrics	Santa Ana, CA	3791	DP-1030 Sealant	Proprietary			N/A									
	Blank off panel rigid insulation		owens coming (See 072100)																
9	FINISHES																		
09 20 00		2	1000 km																
092216	NON-STRUCTURAL METAL FRAMING																		

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	2.1 Framing system	2 1000 km	ClarkDietrich Building System	Fairless Hills, PA	383	Non structural and cold form metal framing products and accessories (T200 Structural Track, Prostud Drywall Stud,Track, Furring Channel, L angle)	Iron and Alloy	N/A	N/A	N/A	I11-E16	N	Y	N/A	N	Y	Y	N
	2.2 Suspension System		Armstrong World industries	Aberdeen,MD	446	Drywall Grid System	Steel and Zinc Alloy	N/A	N/A	N/A	I11-E16	N	Y	N/A	N	Y	Y	N
	2.3 Misc: Hardware		Hilti			screws					I14-E6							
	2.3 Misc: Hardware		Hilti			Fasteners					I14-E6							
092900	GYPSUM BOARD																	
	2.3 Interior Gypsum Board (restroom only)		USG	Baltimore, MD	162	Sheetrock Mold Tough 5/8" Type X Gypsum Panels	Gypsum, cellulose, starch, sodium pyrrhione, crystalline silica, Fibrous Glass			N/A	I11-E16	N	Y	N/A	N	N	Y	Y
						Gypsum (natural) 50%	Nova Scotia	2238										
						Gypsum (synthetic) 22%	FDG York, PA	75										
						Cellulose 10%	N/A	N/A										
						starch	N/A	N/A										
					Fibrous glass	N/A	N/A											
					crystalline silica	N/A	N/A											
	2.3 Interior Gypsum Board (other area)	USG	Jacksonville, FL	896	Sheetrock Firecord Core 5/8" Type X Gypsum Panels	Gypsum, cellulose, starch, crystalline silica, Fibrous Glass			N/A	I11-E16	N	Y	N/A	N	N	Y	Y	
					Gypsum (natural) 85%	Nova Scotia	2238											
					Cellulose	N/A	N/A											
					starch	N/A	N/A											
					Fibrous glass	N/A	N/A											
					crystalline silica	N/A	N/A											
	2.4 Tile Backing Panels	USG	Baltimore, MD	162	Durock Cement Board	Portland Cement, Fly ash, Expanded Clay Aggregate, bland of mineral based ingredients, fiber glass scrim, crystalline silica			N/A	I11-E16	N	Y	N/A	N	N	Y	Y	
					Portland Cement	Martinsburg, WV	117											
					Fly Ash	Havana, IL	1154											
					Expanded clay Aggregate/Shale	Arvonias, VA	233											
					Blanded Mineral based ingredients	Hodgkins, IL	989											
					Fiber Glass Scrim	Hodgkins, IL	989											
					Crystalline Silica	Hodgkins, IL	989											
	2.5 Trim Accessories									I14-E6								
	2.6 Joint compound	USG	Baltimore, MD	162	Sheetrock Brand joint Compound	Limestone, Water, Mica, Polymer Emulsion, Clay, proprietary ingredients			N/A	I11-E16	N	Y	N/A	N	N	N	Y	
	2.7 Misc: Sound Attenuation Blankets	See 072100																
	2.7 Misc: Acoustical Joint Sealant	TradeMark Soudproofing	Granville, NY	672	Noiseproofing Sealant	Calcium Carbonate, Proprietary ingredients, water			N/A	N	N	Y	N/A	N	N	N	Y	
	2.7 Misc: Acoustical Joint Sealant	TradeMark Soundproofing	Granville, NY	672	Green Glue Damping Compound	Proprietary ingredietns, water			N/A	N	N	Y	N/A	N	N	N	Y	
093000	TILING																	
	2.2 Tiles (CT-2) restroom	overstocked	Pompei warehouse	51														
	2.2 Tiles (CT-1) warming kitchen	overstocked	Pompei warehouse	51														
	2.3 Thresholds	overstocked	Pompei warehouse	51														
	2.5 Setting Materials	Laticrete	Hamlet, NC	400	253 Gold thin set mortar	sand, portland Cement, fly ash, filler/additives			N/A	N	N	Y	N/A	N	N	N	Y	
					Sand	Central SC	170											
					Cement	Central NC	50											
					Fillers/Flyash	West Centri GA	490											
					Fillers/Additives	South East NC	103											
	2.6 Grout Materials	Laticrete	Hamlet, NC	470	1500 Sanded Grout	sand, portland Cement, and Fillers/Additives			N/A	N	N	Y	N/A	N	N	N	Y	

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	2.6 Grout Materials	3	2000 km	Laticrete	Hamlet, NC	470	1600 Unsanded Grout	Sand Cement Fillers/Additives	Central SC Central NC N/A	170 50 N/A			N/A	N	Y	N/A	N	N	N	Y	
										Sand Cement Fillers/Additives	Central SC Central NC N/A	170 50 N/A									
09 50 00	ACOUSTICAL PANEL CEILINGS	3	2000 km																		
095113	2.2 ACT-1			Armstrong	Pensacola, FL	1230	Cirus, Tegular	Fiber, Perite, Starch, Recycled ceiling panels, recycled paper, coating					N/A	N	N	Y	N/A	N	N	N	Y
								Fiber (60-80%)	N/A	1207-2253	(72% in 2000 km)										
								Perlite	N/A	12875-14484											
								starch	N/A	1931-2092											
								recycled ceiling panels	N/A	804-1126											
								recycled paper coating	N/A	160-320 643-6437											
	2.4 A Metal Suspension System			Armstrong	Aberdeen, MD	305	Prelude XL exposed tee system (12H ID main beam #7300)	hot dipped calvanized steel, paint (ingredient info not available)					N/A	N	N	Y	N/A	N	N	N	Y
								hot dipped calvanized steel	N/A	965											
								paint (ingredient info not available)	N/A	804											
095423	ACOUSTICAL TILE CEILINGS																				
09 60 00	WOOD FLOORING	3	2000 km																		
096400	2.2 Wood Flooring			salvaged gym floor	campostella elementary	16															
	2.2 Wood Flooring			salvaged oak floor	fredericksburg VA	239															
	2.3 Misc: Vapor Retarder			Poly-America	Grand Prairie, TX	1970	polyethylene sheet	polyethylene, proprietary colorant, heat stabilizer and additives	N/A	N/A		N/A	N/A	N	Y	N/A	N	N	N	Y	
	2.3 Misc: Insulation Board			see 072100																	
	2.3 Misc: Glue			BASF	Florham Park, NJ	459	Sonneborn PL premium adhesive	polymer (proprietary), talc, MDI, distillates, etc	N/A	N/A		N/A	N/A	N	Y	N/A	N	N	N	Y	
	2.3 Misc: Adhesive			Augra Corp	Mansfield, TX	1990	Woodstick 1919 (urethane WD FLR adhesive)	plasticizer, calcium carbonate, and proprietary	N/A	N/A		N/A	N/A	N	Y	N/A	N	N	N	Y	
	2.2 Wood Flooring finish			Bona AB	Malmö, Sweden	6500	Bona Mega (sealer)	Water, Polymeric Resins, Propylene Glycol Ethers, Proprietary ingredients	N/A	N/A		N/A	N/A	N	Y	N/A	N	N	N	Y	
	2.2 Wood Flooring finish			BonaKemi, USA	Pueblo, CO	2530	Bona Drifast (Stain)	Alkyd Resins, Mineral Spirits, Proprietary Ingredients	N/A	N/A		N/A	N/A	N	Y	N/A	N	N	N	Y	
	2.3 Accessory: plywood Underlayment			see 061600																	
096519	RESILIENT TILE FLOORING																				
	2.2 Resilient Tile Floor, 12"x12"			Armstrong World Industries Inc	Jackson, Mississippi	1388	Bio-Based Tile	limestone, Ployster Blend, Titanium Dioxide, Pigment					N/A	N/A	N	N/A	N/A	N	Y	N	N
								Limestone (85%)	Sylacauga, AL	1025											
	2.3 Adhesive			Armstrong World Industries Inc	Columbus, OH	703	Armstrong S-525 Adhesive	Plasticizer, Resin, Rosin, Defoamers, Potassium Rosin Soap, Rheology Modifier, Dispersant, Thickener, Urea, Styrene Copolymer, Water	N/A	N/A		N/A	N/A	N	Y	N/A	N	Y	N	N	N
097723	FABRIC-WRAPPED PANELS	N/A	N/A																		

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	2.2 Material			Goiterman&Sabo	St Louis, MO	1266	G&S Acoustics ATM Acoustical Panel	Micore 300, Guilford 2100 Fabric											
	2.2 Material: Core			USG	Cloquet, MN	1784	Micore 300 Mineral Fiber Bd-90%	Slag Wool Fiber expanded perite, starch,kaolin,cellulos e,crystalline silica	Cloquet, MN	N/A	N/A	N/A	N	N/A	N/A	N	Y	N	N
	2.2 Material: Facing			Guilford of Main	Grand Rapid, MI	1071	Guilford 2100 Fabric-9.5%	post-consumer recycled polyester,proprietary dyes, proprietary fiber lubricant	cloquet, MN	N/A	N/A	N/A	N	N/A	N/A	N	N	N	Y
	2.2 Material: Mounting Device																		
099123	INTERIOR PAINTING																		
	Steel/Galvanized metal substrates: primer			Sherwin Williams	Cleveland, OH	280	Pro Industrial Pro-Cryl Universal Acrylic Primer, off white	water, acrylic polymer, calcium carbonate, titanium Dioxide, calcined clay, mineral spirits, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	Steel/Galvanized metal substrates: intermediate and top coats			Sherwin Williams	Cleveland, OH	280	Harmony IAQ Interior Acrylic Latex Eg-Shel	Water, acrylic polymer, Titanium Dioxide, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	Wood substrates: prime coat			Sherwin Williams	Cleveland, OH	280	PrePrte Problock Interior/Exterior Latex Primer/sealer	Water, acrylic polymer, Titanium Dioxide, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	Wood substrates: intermediate and top coats			Sherwin Williams	Cleveland, OH	280	Harmony Interior acrylic Latex Semi-Gloss	Water, acrylic polymer, Titanium Dioxide, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	Gypsum board substrates: prime coat			Sherwin Williams	Cleveland, OH	280	Harmony IAQ Interior Primer	Water, acrylic polymer, Titanium Dioxide, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	Gypsum board substrates: intermediate and top coats			Sherwin Williams	Cleveland, OH	280	Harmony IAQ Interior Acrylic Eg-Shel	Water, acrylic polymer, Titanium Dioxide, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
099300	STAINING AND TRANSPARENT FINISHING																		
	2.3 Water-Based Varnishes (Exterior siding)			PPG	Strongsville, OH	708	Cetol 1RE Natural SIK41078	Stoddard solvent, Linseed Oil, Alkyd Resin, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.3 Water-Based Varnishes (Exterior siding)			PPG	Strongsville, OH	708	Cetol 23RE Natural SIK 43078	Stoddard solvent, Alkyd Resin, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
099600	HIGH PERFORMANCE COATINGS																		
10	SPECIALTIES																		
101423	SIGNAGE																		
	Map Signage			Gropen	Charlottesville, VA	270	Evonik Acrylic sheet	acrylic copolymer	Sanford, Maine	N/A	N/A	N	N	Y	N/A		Y	Y	N
							Richlite sheet goods	paper and resins	Tacoma, WA	N/A	N/A	111-E1	Y	Y	N/A		N	EPD	N
	Slate Signage Blackboard			Gropen	Charlottesville, VA	270	Buckingham slate	100 % slate	Arvonnia, VA	N/A	N/A	N	N	Y	N/A		Y	N	N
	Glass Graphics			Gropen	Charlottesville, VA	270	Spectrum glass	sand & soda ash	Woodinville, WA	N/A	N/A	N	N	Y	N/A		Y	N	N
	Exterior Metal Signage			Gropen	Charlottesville, VA	270	Gemini	aluminum	Cannon Falls, MN	N/A	N/A	N	N	Y	N/A				
							North American Stainless	stainless steel	N/A	N/A	N/A	N	N	Y	N/A				
							Nazdar	ink	Shawnee, KS	N/A	N/A	N	N	Y	N/A		N	N	Y
	Entry Portal			Gropen	Charlottesville, VA	270	Driftwood	wood	Hopewell, VA	N/A	salvaged	N	N	Y	N/A		Y	N	N
							Titebond adhesive & glue	clay, calcium carbonate	Columbus, OH	N/A	N/A	N	N	Y	N/A		N	N	Y
	ADA Signage			Gropen	Charlottesville, VA	270	3Form Varia Ecoresin	copolyester resin	Salt Lake City, UT	N/A	N/A	N	N	Y	N/A		N	HPD	N
102238.13	OPERABLE GLASS-PANEL PARTITIONS																		
	2.2 Operable Glass Panel: Glazing			Oldcastle (see 088000)															
	2.2 Operable Glass Panel: Panel Frame			Salvaged															
	2.2 Operable Glass Panel: Sliding door hardware			Hager Companies	St. Louis, MO	1252	9130 Sliding set	metal parts	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.19 Di-Fold Door hardware			Hager Companies	St. Louis, MO	1253	9861 Bi-Fold set	metal parts	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.2 Operable Glass Panel: Seal			Momentive (see 123640)															
	2.2 Operable Glass Panel: Finish			Minwax (see 099123)															
102800	TOILET, BATH, AND LAUNDRY ACCESSORIES																		
	grab bar			salvaged	HRSD	9													
	Towel waste dispenser			salvaged	HRSD	9													
	Tissue Dispenser			salvaged	HRSD	9													
	Mop Rack			salvaged	Lake Taylor Hospital	13													
	Hook Strip			salvaged	Lake Taylor Hospital	13													
	Soap Dispenser			salvaged	HRSD	9													
	Mirror			salvaged	HRSD	9													

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	baby change station			Used	ordered online														
104413	FIRE EXTINGUISHER CABINETS																		
	2.1 Fire Protection Cabinet			salvaged	Lake Taylor Hospital	13													
104416	FIRE EXTINGUISHERS																		
	2.1 Portable, Hand Carried Fire Extinguishers			FF&E															
	2.2 Mounting Brackets																		
105113	METAL LOCKERS																		
	2.1 Standard Metal Lockers			Salvaged	Old Kellum High School	24													
10 70 00		5	5000 km																
11	EQUIPMENT	5	5000 km																
113100	RESIDENTIAL APPLIANCES																		
	2.1 Wall Ovens			FF&E															
	General Electric Company (GE)product			Lafayette, GA	873	30" Built-In Single Wall Oven (JT3000SFSS)	complex products (>10 parts)	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	N	
	2.3 Refrigerator (Catering Refrigerator)			Frigidaire	St Cloud, MI	1795	FrostFree 17 cu. ft.; model FRU17G4JB (FPRH19D7LF)	complex products (>10 parts)	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	N
	General Electric Company (GE)product			Louisville, KY	876	GE Energy Star 26.3 Cu. Ft French Door Refrigerator (GNE26GSDSS)	complex products (>10 parts)	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	N	
	2.3 Refrigerator/Freezer (Staff Refrigerator)			U-Line	Milwaukee, WI	1227	ADA151M	complex products (>10 parts)	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	N
	2.4 icemakers			FF&E															
	2.5 Coffee Maker			FF&E															
	Microwave			FF&E															
	Copier/Printer			FF&E															
12	FURNISHINGS																		
122113	HORIZONTAL LOUVER BLINDS																		
	2.2 Horizontal Louver Blinds, Aluminum Slats			Springs Window Fashions LLC	Victoria, Mexico	2651	Bali 3000 Aluminum Blinds	Aluminum, steel, polyester Yarn and proprietary ingredients	N/A	N/A	N/A	N	N	Y	N/A	N	N	N	Y
122413	ROLLER WINDOW SHADES																		
	2.2 Manully Operated Shades With Single Rollers			Mecho Shade	Edison, NJ	430	Manual Shade Mecho/5	Aluminum, steel, delrin, Kepital, Iron Sinter, Zinc plate, PET, ect and RoHS compliant Motor	N/A	N/A	N/A	N	N	Y	N/A	N	Y	N	N
	2.3 Motor Operated, Single Roller Shades			Mecho Shade	Edison, NJ	430	Motorized Shade	Aluminum, steel, delrin, Kepital, Iron Sinter, Zinc plate, PET, ect and RoHS compliant Motor	N/A	N/A	N/A	N	N	Y	N/A	N	Y	N	N
	2.3 Motor Operated, Single Roller Shades			Mecho Shade	Edison, NJ	430	Bottom up Motorized Shade	Aluminum, steel, delrin, Kepital, Iron Sinter, Zinc plate, PET, ect and RoHS compliant Motor	N/A	N/A	N/A	N	N	Y	N/A	N	Y	N	N
12 30 00		2	1000 km																
123640	STONE COUNTERTOPS																		
	2.2 Granite			Salvaged	HRS D	9													
	2.3 Adhesives			Superior Stone Products, Inc.	Byron Center, MI	1063	Superior Knife Grade Epoxy – Part A	Bisphenol A/Epichlorohydrin Resin, Propylene Carbonate, Hydrophobic Amorphous Fumed Silica	N/A	N/A	N/A	N	N	Y	N/A	N	N	N	Y
	2.3 Adhesives			Superior Stone Products, Inc.	Byron Center, MI	1063	Superior E-5010 Part B	Diethylenetriamine, Bis(dimethylaminomethyl)phenol, Aminoethylpiperazine, Nonylphenol, Delta – Reaction Products w/ ethylene oxide, Hydrophobic Silica	N/A	N/A	N/A	N	N	Y	N/A	N	N	N	Y
	2.3 Sealants			Momentive	Waterford, NY	689	GE brand GE 5000 silicone II window and door clear sealant	Reinforcing filler, Pigments, silicones based ingredients	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	Y	Y
124816	ENTRANCE FLOOR GRILLES																		
	2.3 Floor Grilles			Balco, INC	Wichita, Kansas	1890	SSMR 58	Stainless Steel Alloy 304	N/A	N/A	N/A	N	N	Y	N/A	N	Y	N	N
21	FIRESUPPRESSION	5	5000 km																
211313	WET-PIPE SPRINKLER SYSTEMS	X	X																
	2.2 Steel Pipe and Fitting: Pipe (schedule 10, Schedule 40)			Wheatland (JMC steel Group)	Wheatland, PA	621	Wheatland Tube	Steel	N/A	N/A	N/A	I11-E18	N	Y	N/A	N	Y	N	N
	Threaded Fittings			Ward								I11-E18; I14-E6							

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	Grooved Fittings			Victaulic	Easton, PA	432	Grooved fitting												
	Firelock Rigid Couplings			Victaulic	Easton, PA	432	Firelock Rigid Couplings												
	2.3 Piping Joint Materials: fire stop			Hilti	Kaufering Germany	6855	Hilti FS-ONE Intumescent Firestop Sealant	Polyacrylate dispersion, Calcium carbonate, etc	N/A	N/A	N/A	N/A	N	N	N/A	N	Y	N	N
	2.4 Listed Fire Protection Valves: Ball Valve																		
	2.4 Listed Fire Protection Valves: Bronze Butterfly Valve																		
	2.4 Listed Fire Protection Valves: Iron Butterfly Valve			Victaulic	Easton, PA	432	Butterfly Valves (Grooved)	Steel, aluminum Copper and Carbon Steel	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	N
	2.4 Listed Fire Protection Valves: Check Valve			Tyco	Lansdale, PA	382	Model CV-1F Check Valve	proprietary	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	N
	2.4 Listed Fire Protection Valves: Iron OS& Y Gate Valve																		
	2.4 Listed Fire Protection Valves: Indicating-Type Butterfly Valves																		
	Backflow Preventer			Ames			Colt Sereis												
	2.5 Trim and Drain Valves (Angle Valve, Ball Valve, Globe Valve, Plug Valve)			NIBCO	Nacogdoches, TX	1951	KT-65-UL Bronze Globe Valve	Body, Bonnet, Stem and other components	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
	2.6 Special Valves: automatic (Ball Drip) Drain Valves																		
	2.7 Fire Department Connections			Guardian (see 331101)															
	2.8 Sprinkler Specialty Pipe Fitting: flex coupling			Victaulic	Easton, PA	432													
	2.9 Sprinklers (Recessed pendent and sidewall)			Tyco	Lansdale, PA	382	Model CV-1F Check Valve	proprietary	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	N
	2.9 Sprinkler head guards			Tyco	Lansdale, PA	382	Model CV-1F Check Valve	proprietary	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	N
	Hanger			Erico															
	riser manifold			Tyco	Lansdale, PA	382	Model CV-1F Check Valve	proprietary	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	N
	VSC (water flowswitch)			Potter Elec	Hazelwood, MO	1282	Waterflow Switch (a component of riser manifold)	Housing, Base, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.11 Pressure Gages: Pressure Switch			Potter Elec	Hazelwood, MO	1282	PS10 Pressure Switch	Cover, Pressure Chamber, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	riser manifold			Potter Elec	Hazelwood, MO	1282	PS10 Pressure Switch	Cover, Pressure Chamber, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.11 Pressure Gages: Low Pressure Switch			Potter Elec	Hazelwood, MO	1282	PS40 Pressure Switch	Cover, Pressure Chamber, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	Fire Sealants			Hilti	Tulsa, OK	978	FS one high performance Intumescent firestop sealant	polyacrylate dispersion, calcium carbonate, zinc borate, ammonium polyphosphate, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	Y	N
211316	DRY-PIPE SPRINKLER SYSTEMS																		
	2.2 Steel Pipe and Fitting			See 221313															
	2.3 Piping Joint Materials			See 221313															
	2.4 Listed Fire Protection Valves			See 221313															
	2.5 Trim and Drain Valves			See 221313															
	2.6 Special Valves: Dry-pipe Valves			See 221313															
	2.7 Sprinklers			See 221313															
	2.7 Sprinkler Specialty Pipe Fitting			See 221313															
	Mounted Air Compressor			General Air Product	Exton, PA	355	OL25033AC Oilless Riser Mounted Compressors	Air Compressor, pressure switch, compressor connection, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
	hanger assembly			See 221313															
	Fire Sealants			See 221313															
22	PLUMBING	5	5000 km																
220517	SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING																		
	2.2 Sleeve-seal systems			GPT (Garlock Pipeline Technologies)	Houston, TX	1964	Link-Seal Modular Seals	EPDM rubber, Nylon Polymer, Steel Nuts and Bolts with proprietary coating	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
220518	ESCUTCHEONS FOR PLUMBING PIPING																		
	2.1 Escutcheons.																		
	2.2 Floor plates.																		

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220519	METERS AND GAGES FOR PLUMBING PIPING																		
	2.1. Liquid-in-glass thermometers		Trenice	OAK PARK, MI	1150	Bx9140304 Adjustable Angle Industrial Thermometer	Aluminum, Acrylic, Glass, Brass, Toulene, Graphite	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N	
	2.2. Thermowells.		Trenice	OAK PARK, MI	1150	3-4F2 Thermowell	Brass	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N	
	2.3. Dial-type pressure gages.		Trenice	OAK PARK, MI	1150	600CB4502LA130 Gauge	aluminum, Glass, Bronze, Brass and stainless steel.	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N	
	2.3. Dial-type pressure gages.		Trenice	OAK PARK, MI	1150	620B4502LA110 Gauge	aluminum, Glass, Acrylic, Bronze, Brass and stainless steel.	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N	
	2.4. Gage attachments.																		
	2.5. Test plug																		
220523	GENERAL-DUTY VALVES FOR PLUMBING PIPING																		
	2.3 Bronze ball valves.		Apollo Valves (Conbraco Industries, Inc.)	Pageland, SC	460	70CLF series Bronze Ball Valve	Bronze body (45%), Brass stem (10%), Brass Ball (20%), and Bronze Retainer (20%) and other small component	N/A	N/A	N/A	N/A	I11-E3, I11-E18	N	Y	N/A	Y	N	N	N
	2.3 Bronze ball valves.		Apollo Valves (Conbraco Industries, Inc.)	Pageland, SC	460	70LF series Bronze Ball Valve	Bronze body (45%), Brass stem (10%), Brass Ball (20%), and Bronze Retainer (20%) and other small component	N/A	N/A	N/A	N/A	I11-E3, I11-E18	N	Y	N/A	Y	N	N	N
	2.4 Iron ball valves.																		
	2.5 Iron, single-flange butterfly valves.																		
	2.6 Bronze swing check valves.																		
	2.7 Iron swing check valves.																		
	2.8 Iron swing check valves with closure control.																		
	2.9. Bronze gate valves.																		
	2.10. Iron gate valves.																		
220529	HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT																		
	2.1. Metal pipe hangers and supports.																		
	2.2. Trapeze pipe hangers.																		
	2.3. Metal framing systems.																		
	2.4. Thermal-hanger shield inserts.																		
	2.5. Fastener systems.																		
	2.6. Pipe stands.																		
	2.7. Pipe positioning systems.																		
	2.8. Equipment supports.																		
220548	VIBRATION AND SEISMIC CONTROLS FOR PLUMBING PIPING AND EQUIPMENT		(NOT USED)																
220553	IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT																		
	2.4. Stencils.																		
220716	PLUMBING EQUIPMENT INSULATION																		
220719	PLUMBING PIPING INSULATION																		
	2.1 Tube and Roll insulation		armacell LLC	Mebane, NC	306	UT solaflex tube insulation	EPDM	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y	
	2.2 Adhesive		armacell LLC	Mebane, NC	306	Armaflex 520 BLV adhesive	Acetone	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y	
	2.3 Mastics		Foster	Vadnais Height, MN	1697	Foster 46-50 Weatherite Mastic	Crystalline Silica, Titanium dioxide, attapulgitte, vinyl acetate, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y	
	2.7 Tapes																		
	2.8 Securements																		
	2.9 Protective Shielding Guards																		
220800	PLUMBING SYSTEM COMMISSIONING																		
221116	DOMESTIC WATER PIPING																		
	2.2 Copper tube and Fittings		Mueller Copper Tube Products	Wynne, AR	1332	Copper Tbuue and fittings	99.9% Copper, Phosphorus	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N	
	2.6. Water meters.		Sensus	Dubois, PA	504	Omni T2 Water Meter	Maincase, chamber, floating ball, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N	

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221119	DOMESTIC WATER PIPING SPECIALTIES																		
	2.2. Backflow preventers.			Zurn Wilkins	Raso Robles, CA	1544	I-975XL2SAG RP Backflow With Strainer and Air Gap	complex products (>10 parts)	N/A	N/A	N/A	I11-E3, I11-E17	N	Y	N/A	N	N	N	Y
	2.2. Backflow preventers.			Zurn Wilkins	Raso Robles, CA	1544	4-475VOSY RP Backflow With Strainer and Air Gap	complex products (>10 parts)	N/A	N/A	N/A	I11-E3,I11-E17	N	Y	N/A	N	N	N	Y
	2.2. Backflow preventers.			Zurn Wilkins	Raso Robles, CA	1545	Air Gap Adapter Fitting												
	2.3. Water pressure-reducing valves.			Apollo Valves (ConBraco)	Pageland, SC	460	36FL Series Pressure Reducing Valves	Bronze, Brass, Nitrile, EPDM, etc	N/A	N/A	N/A	I11-E3,I11-E17	N	Y	N/A	N	Y	N	N
	2.6. Wall hydrants.																		
	2.7. Drain valves.																		
	2.8. Water hammer arresters.																		
	Trap Guard Device											I14-E6							
221123.13	DOMESTIC-WATER PACKAGED BOOSTER PUMPS																		
	2.1 Multiplex, Variable Speed Booster Pumps			Xylem (Bell & Gossett)	Dallas, TX	2203	Technoforce Pressure Booster Package. Model: e-SV	Control panel, 2 drives, 2 pumps, 2 motors, valves, pipes, framings wiring, gasket and tubing	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	Y
221223	FACILITY INDOOR POTABLE-WATER STORAGE TANKS																		
	2.1. Steel, precharged, potable-water storage tanks.			The John Wood Company	Oaks, PA	363	Hydro Pneumatic Bladder Type Expansion Tank	steel and Butyl Rubber	N/A	N/A	N/A	N	N	Y	N/A	N	Y	N	N
	2.2. Plastic, nonpressure, potable-water storage tanks.			Norwesco	Raleigh NC	313	Vertical Storage Tanks	HDPE	N/A	N/A	N/A	N	N	Y	N/A	N	N	N	Y
	2.2. Plastic, nonpressure, potable-water storage tanks: Fitting			Norwesco				Polypropylene/EPDM				I14-E6							
221313	FACILITY SANITARY SEWERS																		
	2.1. Cast Iron Soil Pipe and fittings.			(see 221316)															
	2.2 Ductile-Iron Gravity Sewer pipe and fitting																		
	2.3 Ductile-Iron Pressure pipe and fitting																		
	2.4 Nonpressure Type Transition Couplings.																		
	2.5 Pressure Type Pipe Couplings																		
	2.6. Expansion joints and deflection fittings.																		
	2.7. Cleanouts.																		
	2.8 Encasement for pipes																		
221316	SANITARY WASTE AND VENT PIPING																		
	2.2 Hubless, Cast Iron Soil Pipe and Fitting			Charlotte Pipe and Foundry Company	Charlotte, NC	473	Cast iron pipe and fittings	Grey Iron	N/A	N/A	N/A	N	N	Y	N/A	N	N	Y	Y
	Coating used on pipe and fittings			Owens Corning	N/A	N/A	Pipe Coating	Oxidized Asphalt	N/A	N/A	N/A	N	N	Y	N/A	N	Y	N	N
	2.2 Hubless piping couplings			Ferguson	N/A	N/A	PFNH Series Standard no-hub Couplings	Neoprene	N/A	N/A	N/A	N	Y	Y	N/A	N	N	N	N
221319	SANITARY WASTE PIPING SPECIALTIES																		
	2.3.Floor Drain			Josam Company	Michigan City, IN	1067	Floor Drain Top: 32100-Z	Iron, carbon, silicone, manganese, sulfur phosphorus	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.3.Floor Drain			Josam Company	Michigan City, IN	1067	Floor Drain Funnel F4	Copper, Nickel, Zinc, Manganese, Aluminum, Tin, Lead (5%)	N/A	N/A	N/A	I11-E18	N	Y	N/A	N	Y	N	N
	Heat Trace			Heat Trace Products, LLC	Leominster MA	895	2700 Series Dekoron Slef-Regulating Heating Cable	Schedule U-151, Schedule U152, Scheduled 15K ROHS UV and proprietary	N/A	N/A	N/A	I11-E20	N	Y	N/A	N	N	N	Y
221360	FACILITY WATER PURIFICATION SYSTEM																		
	2.1. Rainwater Prefilter Components (first Flush and Cistern)																		
	a. Vortex First Flush Filter			WISY AG	Kefenrod,Germany	6645	WFF 150 Vortex Filter	Stainless steel, Polyethylene, EPDM rubber	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	Y	N
	b. Floating Filter			WISY AG	Kefenrod,Germany	6645	Storage Tank Floating Filter and hose	Stainless steel, Polyethylene,	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	Y	N
	c. Smoothing Inlet			WISY AG	Kefenrod,Germany	6645	WFF smoothing Inlet	Stainless steel	N/A	N/A	N/A	I14-E6							
	2.2. Ozonation Skid.			Zentox Corporation	crystal Lake, IL	1215	Storage Tank Ozone System	side stream pump, ozone generator, GAC Destruct Unit, System Controls, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y

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	2.3. Turbidity Meter		Autotrol Corporation	crystal Lake, IL	1215	Autotrol 1" turbine Water Meter	Glass filled polyethylene Oxide, Polypropylene, Polyimide, 302 Stainless Steel	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.3. Turbidity Meter		Hach Company	Loveland, Colorado	2549	Hach 1720e Turbidity Meter	meter body, detector, inlet, drain, etc	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	Y
	2.4. Water Purification Skid.		Aqua Treatment Service Inc	Mechanicsburg, PA	384	SKMB-3S-20-186K Purification Skid	Housing, UV system, piping, and other components.	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	Y	Y
	a. Turbidity Prefilter										I14-E6							
	b. Cartridge Membrane Filter										I14-E6							
	c. UV Filter										I14-E6							
	Pleated Cartridge		Waterline Technology	Mansfield, OH	714	Pre-Filter, Stage 1 PP4724-30PC	Polypropylene	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	Y	N
	Ahstrom Disruptor		Waterline Technology	Mansfield, OH	714	Pre-Filter, Stage 2 CMF4724-20PC	Polyester, Polyolefin, Borosilicate Glass, Boehmite AlOOH< Cellulose, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	Y	Y
221413	FACILITY STORM DRAINAGE PIPING																	
	2.2 Hubless, Cast Iron Soil Pipe and Fitting		Charlotte Pipe and Foundry Company (See 221316)															
	2.3 Copper Tube and Fittings		Mueller Copper Tube Products (see 221116)															
221423	STORM DRAINAGE PIPING SPECIALTIES																	
	2.2. Miscellaneous storm drainage piping specialties.		Charlotte Pipe and Foundry Company (See 221316)															
221429	SUMP PUMPS																	
	2.1 Submersible sump pump		Liberty Pumps	Bergen, NY	930	LE41M Sewage Pumps	Volute (Cast Iron), Motor Housing (cast Iron), Motor Plate (cast iron), Motor, Impeller, other components.	N/A	N/A	N/A	N/A	Y	Y	N/A	N	N	Y	Y
	pump control		Liberty Pumps															
223300	ELECTRIC, DOMESTIC-WATER HEATERS																	
	2.1. Flow-control, electric, tankless, domestic-water heaters.		Hronomite	city of industry CA	3790	Instant Flow Micro-low Flow tankless water heater	Cast aluminum housing, Nichrome Coils, Microprocessor, Cecon Plastic for element assembly and proprietary	N/A	N/A	N/A	I11-E16	N	Y	N/A	N	N	Y	Y
224213.13	COMMERCIAL WATER CLOSETS																	
	2.2. Composting Toilet		Clivus Multrum	Lawrence, MA	769	M12 Composting Toilet System	polyethylene tank, fiberglass toilet, ABS plumbing parts and others	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
224216.13	COMMERCIAL LAVATORIES																	
	2.1. Lavatories		Salvaged	Pembroke	9													
	2.2. Faucets		American Standard	Piscataway, NJ	433	1340107.002 Faucet	Copper, Zinc and Proprietary Mix	N/A	N/A	N/A	I11-E17	N	Y	N/A	N	Y	N	N
	2.2. Faucets		American Standard	Piscataway, NJ	433	8350235.004 Faucet	Copper, Zinc and Proprietary Mix	N/A	N/A	N/A	I11-E17	N	Y	N/A	N	Y	N	N
	2.2. Faucets		American Standard	Piscataway, NJ	433	6114300.002 Faucet	Copper, Zinc and Proprietary Mix	N/A	N/A	N/A	I11-E17	N	Y	N/A	N	Y	N	N
	2.3. Accessories		Zurn Industries INC	sanford NC	373	P trap with Wall bend					I14-E6							
	2.3. Accessories		Zurn Industries INC	sanford NC	373	Z 8800 LR Standard stop with flexible lavatory supply					I14-E6							
	2.3. Accessories		Plumberex specialty Products Inc.	misc hardware no local needed		P Trap Protector					I14-E6							
224216.16	COMMERCIAL SINKS																	
	2.1 Service Basins		Salvaged	Lake Taylor Hospital	13													
	2.2 Kitchen Sinks		JUST MFG.	Franklin Park, IL	1434	Single Bowl Kitchen Sink (SK-1) SL-ADA-2125-A-GR	Stainless Steel . Sound Deadening	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N

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	2.2 Kitchen Sinks	5	5000 km	JUST MFG.	Franklin Park, IL	1434	Double Bowl Kitchen Sink (SK-2) DL-ADA-1933-A-GR	Stainless Steel . Sound Deadening	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N	
	2.3 Kitchen Sink Accessories			JUST MFG.	Franklin Park, IL	1434	Basket Strainer	Rubber, Die Cast Zinc, Chrome Plated brass	N/A	N/A	N/A	E11-E8	N	Y	N/A	N	Y	N	N	
	2.3 Sink Faucets			American Standard	Piscataway, NJ	433	8350235.004 Faucet	Copper, Zinc and Proprietary Mix	N/A	N/A	N/A	I11-E17	N	Y	N/A	N	Y	N	N	
	2.3 Sink Faucets			American Standard	Piscataway, NJ	433	6114300.002 Faucet	Copper, Zinc and Proprietary Mix	N/A	N/A	N/A	I11-E17	N	Y	N/A	N	Y	N	N	
	2.3 Sink Faucets Accessories			FIAT Products			Hose and Hose Bracket					E114-E6								
	2.3 Sink Faucets Accessories						Mop Bracket, Mop wall Guard					E114-E6								
	2.3 Accessories			Zum Industries INC	Sanford, NC	373	P trap	Cast Brass, Chrome Plating	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N	
	2.3 Accessories			Plumberex specialty Products Inc.			Covers for P trap, valves supply, and Strainer					E114-E6								
	2.3 Accessories			Zum Industries INC	Sanford, NC	373	Standard Stop-Z8806-XL-LR-LK-PC	Cast Brass				E114-E6								
				Daubert Chemical Company	Chicago, IL		Sound Deadener											Y		
224223	COMMERCIAL SHOWERS, RECEPTORS, AND BASINS																			
	2.1. Shower faucets.			Watts Water Technologies Company	North Andover, MA	771	Model E420s12 Shower Valve (handle)	rough in, o ring, wax motor, etc	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	Y	N	N	
	2.1. Shower faucets.			Watts Water Technologies Company	North Andover, MA	771	Watts Model 141 399 (shower head)	Shower arm, Plate, Escutcheon (Brass, stainless Steel)	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N	
	2.2. Shower.			Praxis Industries LLC	Jackson, TN	1159	Model S ADA shower	Stall (cast acrylic), Grab Bars (Stainless steel), Curtain rod(Stainless steel), and Drain (brass and stainless steel)	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y	
224713	DRINKING FOUNTAINS																			
	2.1 DRINKING FOUNTAINS	Elkay	Savanna, IL	1530	EDFPBM117C Wall mount Swirl Flo Drinking Fountain	Back Panel, fountain body, basin, push botton, regulator, cover plate, etc	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	Y			
	2.1 DRINKING FOUNTAINS	Elkay	Savanna, IL	1530	EZWMDK in wall bottle filling station	panel, cover, alcove, hinge, mouting frame, etc	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	Y			
23	HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)																			
230516	EXPANSION FITTINGS AND LOOPS FOR HVAC PIPING																			
	2.1. Pipe loops and swing connections																			
	2.1. Alignment guides																			
230517	SLEEVES AND SLEEVE SEALS FOR HVAC PIPING																			
	2.1. Sleeves																			
	2.3. Sleeve-seal systems	GPT (Garlock Pipeline Technologies)	Houston, TX	1964	Link-Seal Modular Seals	EPDM rubber, Nylon Polymer, Steel Nuts and Bolts with proprietary coating	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y			
230518	ESCUTCHEONS FOR HVAC PIPING																			

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	2.1. Escutcheons.																		
	2.2. Floor plates.																		
230519	METERS AND GAGES FOR HVAC PIPING		(See 220519)																
230523	GENERAL-DUTY VALVES FOR HVAC PIPING																		
	2.4. Bronze ball valves.			Apollo Valves (Conbraco Industries, Inc.)	Pageland, SC	460	70LF series Bronze Ball Valve	Bronze body (45%), Brass stem (10%), Brass Ball (20%), and Bronze Retainer (20%)and other small component	N/A	N/A	N/A	I11-E3, I11-E18	N	Y	N/A	Y	N	N	N
	2.4. Bronze ball valves.			Apollo Valves (Conbraco Industries, Inc.)	Pageland, SC	460	70CLF series Bronze Ball Valve	Bronze body (45%), Brass stem (10%), Brass Ball (20%), and Bronze Retainer (20%)and other small component	N/A	N/A	N/A	I11-E3, I11-E18	N	Y	N/A	Y	N	N	N
230529	HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT																		
	2.1. Metal pipe hangers and supports.																		
	2.2. Trapeze pipe hangers.																		
	2.3. Metal framing systems.																		
	2.4. Thermal-hanger shield inserts.																		
	2.5. Fastener systems.																		
	2.6. Equipment supports.																		
230648	VIBRATION AND SEISMIC CONTROLS FOR HVAC PIPING AND EQUIPMENT																		
230553	IDENTIFICATION FOR HAVC PIPING AND EQUIPMENT																		
	Paint																		
230593	TESTING, ADJUSTING, AND BALANCING FOR HVAC																		
230713	DUCT INSULATION																		
	2.1 Duct wrap insulation			Johns Manville	Winder, GA	872	Microlite XG and EQ	Fiberglass, Thermoset Resin, FSK facing, adhesive	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
	2.2 Adhesive			armacell LLC	Mebane, NC	306	Armalflex 520 BLV adhesive	Acetone	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
	2.3 Mastics			Foster	Vadnais Height, MN	1697	Foster 46-50 Weatherite Mastic	Crystalline Silica, Titanium dioxide, attapulgitte, vinyl acetate, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
	2.7 Tapes																		
	2.8 Securements																		
	2.9 Protective Shielding Guards																		
230719	HVAC PIPING INSULATION																		
	2.1 Tube and Roll insulation			armacell LLC	Mebane, NC	306	UT solarflex tube insulation	EPDM	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
	2.2 Adhesive			armacell LLC	Mebane, NC	306	Armalflex 520 BLV adhesive	Acetone	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
	2.3 Mastics			Foster (230713)															
	2.6 Tapes																		
	Air Separator			Bell & Gossett (Xylem Inc,A.W.S.)	Morton Grove, IL	948	Polairtrol Air Separator	Carbon Steel, Stainless Steel	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
230800	MECHANICAL SYSTEM COMMISSING																		
230900	INSTRUMENTATION AND CONTROL FOR HVAC																		
	2.2 Control System			Badger	N/A	N/A	A301-20, Badger Meter Programming Kit	Small Electrical Component	N/A	N/A	N/A	I11-E20	N	N/A	N/A	N	N	N	N

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	2.2 Control System		Functional Devices	N/A	N/A	RIB 120VAC 24VAC/DC SPDT	Small Electrical Component	N/A	N/A	N/A	I11-E20	N	N/A	N/A	N	N	N	N
	2.2 Control System		Siemens	USA	N/A	SIEMENS BACNET VAV CONTROLLER (SH)	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.2 Control System		Siemens	Switzerland	N/A	PXC MOD, BACNET, TX I/O, 96 NODE, APOGEE	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.2 Control System		Siemens	USA	N/A	PXC MOD EXPANSION MODULE, 3 RS-485	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.2 Control System		Siemens	USA	N/A	INS 3.13 ADV SERVER KIT (WITH USB KEY)	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.2 Control System		Siemens	USA	N/A	BACNET CLIENT LIC (INSIGHT 3.7 OR HIGH	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.2 Control System		Siemens	USA	N/A	PROG. BACNET VAV TEC (LONG)	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.2 Control System		Veris	N/A	N/A	CUR SW SPLT COR-ADJ SETPT W/LED	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	Electrical Relay		IDEC	N/A	N/A	SH Series Relay and Socket	Small Electrical Component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N	N	N	N
	Electrical Relay		IDEC	N/A	N/A	RH Series Relay and Socket	Small Electrical Component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N	N	N	N
	2.3 DDC equipment		IDEC	N/A	N/A	Relay & SOC, GP DPDT AC24V 10A	Small Electrical Component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N	N	N	N
	2.3 DDC equipment		Kele	N/A	N/A	20307 Series, 20820307 SERIES, 208V COIL RELAY	Small Electrical Component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N	N	N	N
	2.3 DDC equipment		Siemens	USA	N/A	2" 2W 40CV BALL VLV+GMA121.1P	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.3 DDC equipment		Siemens	Malaysia	N/A	POWER DONGLE	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.3 DDC equipment		Siemens	USA	N/A	ENCLOSURE ASSY 34	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.3 DDC equipment		Siemens	China	N/A	SERVICE BOX 115V, 24VAC, 192VA	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.3 DDC equipment		Siemens	USA	N/A	RTS, TEC DIG., F-F, SL	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.3 DDC equipment		Siemens	Switzerland	N/A	16 DIGITAL INPUT MODULE	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.3 DDC equipment		Siemens	Switzerland	N/A	6 RELAY OUTPUT MODULE W/OVD	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.3 DDC equipment		Siemens	Switzerland	N/A	8 UNIV I/O W/ 4-20MA, OVD&LCD	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.3 DDC equipment		Siemens	China	N/A	24VDC SUPPLY 1200MA, 4 A FUSE	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.3 DDC equipment		Siemens	USA	N/A	ACT NSR PLENUM 24/108L 5NM	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.3 DDC equipment		Siemens	USA	N/A	ENCLOSURE ASSY, TEC	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.3 DDC equipment		Siemens	USA	N/A	PR269 ACCESSORY, SENSING TUBE	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.4 Electronic Sensors		Setra	USA	N/A	DP TRAN, WET, 50PSI, 4-20MA, W/MAN	Small Electrical Component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N	N	N	N
	2.4 Electronic Sensors		Setra	N/A	N/A	DP TRAN, WET, 0-25PSID, 4-20MA	Small Electrical Component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N	N	N	N

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	2.4 Electronic Sensors		Siemens			DCT PT SNSR, PT 1K OHM, (375), 18" PROBE	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.4 Electronic Sensors		Siemens	USA	N/A	IMMWELL SNSR, PT 1K OHM, (375), 2.5" LGTH	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.4 Electronic Sensors		Siemens	Switzerland	N/A	SENSOR (DUCT) RH: 0-10VDC	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.4 Electronic Sensors		Siemens	Switzerland	N/A	SENSOR, CO2, ROOM, 0-10V, SENSING	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.4 Electronic Sensors		Siemens	USA	N/A	RS, CO2/TRH 2%, DISP, SETPT, OVRD	Small Electrical Component	N/A	N/A	N/A	I11-E20	Y	N/A	N/A	N	N	N	N
	2.4 Electronic Sensors		Veris	N/A	N/A	LOOP-POWERD 4-20MA CURR SNSR	Small Electrical Component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N	N	N	N
	2.4 Electronic Sensors		System Sensor			4 WIRE DUCT SMOKE DETECTOR												
	E: Pressure Transmitters/Transducers		Setra	Boxborough, MA	734	Model 264 Pressure Transducer	Small Electrical Component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N	N	N	N
	2.5 Status Sensors		Flowline	N/A	N/A	DL24-00 Level Sensor, Flowline	Small Electrical Component	N/A	N/A	N/A	I11-E20	N	N/A	N/A	N	N	N	N
	2.6 Gas Detection Equipment																	
	2.7 Flow Measuring Stations		Dent Instruments	N/A	N/A	PWR METER BM W-QTY3 100A SCT-HMC-100A	Small Electrical Component	N/A	N/A	N/A	I11-E20	N	N/A	N/A	N	N	N	N
	2.7 Flow Measuring Stations		Dent Instruments	N/A	N/A	PWR METER BM W-QTY3 400A SCT-SCM-400A	Small Electrical Component	N/A	N/A	N/A	I11-E20	N	N/A	N/A	N	N	N	N
	2.7 Flow Measuring Stations		Dent Instruments	N/A	N/A	PWR METER BM W-QTY3 5KA SCT-R16-A4-U	Small Electrical Component	N/A	N/A	N/A	I11-E20	N	N/A	N/A	N	N	N	N
	2.8 Humidistats-Duct Mouting Humidistats																	
	2.9 Actuators																	
	2.10 Control Valves																	
	2.11 Dampers																	
	2.12 Control Cable																	
	Flow Meter		Ebtron	N/A	N/A	microprocessor-based velocity meter.	Small Electrical Component	N/A	N/A	N/A	I11-E20	N/A	N/A	N/A	N	N	N	N
	EMT compression connector		(American fitting, see 260533)															
	Gauges		JOWA USA	Littleton, MA	752	Aquatape Gauging system	steel, polypropylene, carbon, nichrome, limestone, proprietary	N/A	N/A	N/A	N/A	Y	Y	N/A	N	N	N	N
230993	SEQUENCE OF OPERATIONS FOR HVAC CONTROLS																	
232113	HYDRONIC PIPING																	
	2.2 Copper tube and Fittings		Mueller Copper Tube Products	Wynne, AR	1332	Copper Tube and fittings	Copper, Phosphorus	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.6 Bypass Chemical Feeder		The metro Group, INC	Long Island City, NY	298	Metro Cleaner CS#46	Proprietary, and water	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.6 Bypass Chemical Feeder		The metro Group, INC	Long Island City, NY	298	Duboth NB-35	sodium nitrite, sodim borate, proprietary, and water	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.6 Bypass Chemical Feeder		A&F Machine Products Company	Berea, OH	570	SF-5 Shot Feeder	steel and brass	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	Borehole Backfill		WYPo-BEN, INC	Billings, MT	2817	Therm-EX Grout	sodium nitrite, sodim borate, proprietary, and water	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
232113.33	GROUND LOOP HEAT PUMP PIPING																	
	2.1 HDPE Pipes and Fittings		Charter Plastics	Avon Lake, OH	724	HDPE pipes and fitting	HDPE and Carbon Black	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.2 Borehole Backfill		Wyo-Ben Inc	Billings, MT	2817	Thermex Grout	Sodium bentonite and proprietary	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
232123	HYDRONIC PUMPS																	
	2.2 Close-coupled, in-line centrifugal pumps.		Bell & Gossett (Xylem Inc,A.W.S.)	Morton Grove, IL	714	Series 90 Model 2A Centrifugal Pumps	Cast Iron, Broze, Brass, Carbon Seals, others	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.2 Centrifugal pump Accessories		Bell & Gossett (Xylem Inc,A.W.S.)	Morton Grove, IL	714	Suction Diffuser	Cast Iron, Carbon Steel, Bronze, EPDM Rubber	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	Air Vent		Bell & Gossett (Xylem Inc,A.W.S.)	Morton Grove, IL	715	107A Air Vent	Cast Iron, Stainless Steel, EPDM Rubber, Brass, Labels,	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N

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	Air Separator		Bell & Gossett (Xylem Inc.A.W.S.)	Morton Grove, IL	948	Polairtrol Air Separator	Carbon Steel, Stainless Steel	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	Expansion Tanks		Bell & Gossett (Xylem Inc.A.W.S.)	Morton Grove, IL	714	Series B Pressurized Expansion Tanks Vertical	Steel, Butyl Rubber, Primer, Labels	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
232300	REFRIGERANT PIPING																	
	2.1 Copper Tube and Fittings		Mueller Copper Tube Products	Wynne, AR	1332	Streamline Copper Tubes	Copper, Phosphorus	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.1 Copper Tube and Fittings		Mueller Copper Tube Products	Covington, TN	1226	Streamline Copper fittings	Copper, Phosphorus	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.2 Valves and specialties		Keckley Company	Skokie, IL	1469	Style D Simplex Stainer	Stainless Steel, Iron	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.3 Refrigerants		(see OAHU system in 237433)															
233113	METAL DUCTS																	
	2.1-2.2 Single-wallducts and fittings.		The Techs	Pittsburg PA	716	Duct and fittings	Galv Steel (Iron, Zinc, Manganese, Nickel)	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	Y	N
	2.5. Sealants and gaskets.		DP Design Polymeric	Santa Ana, CA	3791	DP 1030 Water Based Duct Sealant	Proprietary, water, mineral Filler	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	Y	Y
	2.5. Sealants and gaskets.		Eigen Manufacturing	Closter, NJ	622	440 Butyl Gasket	Pib, Rubber Calcium Carbonate	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.6 Hangers and supports.																	
233300	AIR DUCT ACCESSORIES																	
	2.4 Manual volume dampers.		Duro Dyne Corporation	Bay Shore, NY	670	Manual Volume Damper	Galv Steel	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	Y	N
	2.5 Flange connectors.		Eigen Manufacturing Div	Closter, NJ	622	Flange Connectors	Galv Steel	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.6 Turning vanes.		Eigen Manufacturing Div	Closter, NJ	622	Turning Vanes	Galv Steel	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.8. Flexible connectors.		Eigen Manufacturing Div	Closter, NJ	622	felx duct connector	Galv Steel, Woven polyester	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.10. Duct accessory hardware.		Eigen Manufacturing Div	Roselle, IL	1489	Duct Accessory Hardware	Galv Steel	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
233423	HVAC POWER VENTILATORS																	
	2.2 . Inline Centrifugal Fan (including motor)		Fantech	Lenexa, KS	1660	Fantech FR series Inline Exhasust Fans	Fan housing (ABS), fan wheel (polypropylene), Wire, Caulk	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	2.1 Gravity Ventilator (Natural Ventilator)		Greenheck	Schofield, WI	1909	GRS 12 Vent	Aluminum body and hardware	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	Y	N
233600	AIR TERMINAL UNITS																	
	2.2. Shutoff, single-duct air terminal units.		Price Industries	Suwanee GA	797	Variable Air Volume Boxes	Galvanized casing (85%), damper, insulation and other small components	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
233713	DIFFUSERS, REGISTERS, AND GRILLES																	
	2.2. Round diffusers.		Seiho	santa fee springs, nm	3808	TurboNozzle, Model NT (Air Nozzle Diffuser)	Aluminum alloy and powder coating (see below)	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
						Coating Powder	Polyester Resin, Titanium dioxide, Barium Sulfate, etc	N/A	N/A	N/A	N/A						Y	
	2.2. Perforated diffusers.		Titus	tarboro NC	198	Louvered Return Grilles and Registers (350 RL and 200RL)- Steel	steel with proprietary paint	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	Y	N
	2.2. Perforated diffusers.		Titus	tarboro NC	198	Architectural Ceiling Diffusers (OMNI)	steel with proprietary paint	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	Y	N
237433	DEDICATED OUTDOOR-AIR UNITS																	
	DOAU		AAON	Tulsa, OK	2131	OAHU-1 AAOH packaged makeup air energy recovery unit: Model RQ006	Casing (56%), compressor, cooling/heating coil, fan, other components	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	Paint on DOAU Casing		Wilko Paint, INC	Wichita, KS	1877	722.159 Wilkothane HS AAON Gray (activated)	Titanium Dioxide, Resins, Aromatic 100, etc	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
238129	VARIABLE REFRIGERANT VOLUME AIR CONDITIONING																	
	2.2 Condensing Unit		DaiKin	Osaka, Japan	11400	Heat Recovery VRV WIII 208-230V RWEYQ84PTJU	Proprietary	N/A	N/A	N/A	N/A	N	N	N/A	N	N	N	N
	Branch Selector Unit		DaiKin	Shanghai, China	12247	Branch Selector Unit BSVQ36PVJU	Proprietary	N/A	N/A	N/A	N/A	N	N	N/A	N	N	N	N
	Branch Selector Unit		DaiKin	Shanghai, China	12247	Branch Selector Unit BSVQ60PVJU	Proprietary	N/A	N/A	N/A	N/A	N	N	N/A	N	N	N	N

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	Branch Selector Unit	5	5000 km	DaiKin	Shanghai, China	12247	Branch Selector Unit BSVQ96PVJU	Proprietary	N/A	N/A	N/A	111-E3	N	N	N/A	N	N	N	N	
	2.3 Indoor VRV Air Handling Unit and Control			DaiKin	Chonburi, Thailand	8768	VRV unit FXAQ07PVJU	Proprietary	N/A	N/A	N/A	111-E3	N	N	N/A	N	N	N	N	N
	2.3 Indoor VRV Air Handling Unit and Control			DaiKin	Chonburi, Thailand	8768	VRV Unit FXMQ09PVJU	Proprietary	N/A	N/A	N/A	111-E3	N	N	N/A	N	N	N	N	N
	2.3 Indoor VRV Air Handling Unit and Control			DaiKin	Chonburi, Thailand	8768	VRV Unit FXMQ24PVJU	Proprietary	N/A	N/A	N/A	111-E3	N	N	N/A	N	N	N	N	N
	2.3 Indoor VRV Air Handling Unit and Control			DaiKin	Chonburi, Thailand	8768	VRV Unit FXMQ30PVJU	Proprietary	N/A	N/A	N/A	111-E3	N	N	N/A	N	N	N	N	N
	2.3 Indoor VRV Air Handling Unit and Control			DaiKin	Chonburi, Thailand	8768	VRV Unit FXMQ36PVJU	Proprietary	N/A	N/A	N/A	111-E3	N	N	N/A	N	N	N	N	N
	2.3 Indoor VRV Air Handling Unit and Control			DaiKin	Chonburi, Thailand	8768	VRV Unit FXNQ12MVJU9	Proprietary	N/A	N/A	N/A	111-E3	N	N	N/A	N	N	N	N	N
	2.3 Indoor VRV Air Handling Unit and Control			DaiKin	Chonburi, Thailand	8768	VRV Unit FXTQ36PAVJU	Proprietary	N/A	N/A	N/A	111-E3	N	N	N/A	N	N	N	N	N
	Piping			DaiKin	Shanghai, China	12247	REFNET branch piping kit KHRP26A33T9	copper	N/A	N/A	N/A	111-E3	N	N	N/A	N	N	N	N	N
	Piping			DaiKin	Shanghai, China	12247	REFNET branch piping kit KHRP25M72TU9	copper	N/A	N/A	N/A	111-E3	N	N	N/A	N	N	N	N	N
	Piping			DaiKin	Osaka, Japan	11400	VRV- Will connection piping kit BHP26MA84U	copper	N/A	N/A	N/A	111-E3	N	N	N/A	N	N	N	N	N
	Piping			DaiKin	Osaka, Japan	11400	VRV- Will connection piping kit BYFQ0808W19	copper	N/A	N/A	N/A	111-E3	N	N	N/A	N	N	N	N	N
	Controlized Controller			DaiKin	Shanghai, China	12247	Remote Controller BRC1E72	Proprietary	N/A	N/A	N/A	111-E3	N	N	N/A	N	N	N	N	N
	Controlized Controller			DaiKin	Osaka, Japan	11400	Intelligent Touch Controller DCS601C71	Proprietary	N/A	N/A	N/A	111-E3	N	N	N/A	N	N	N	N	N
	Interface	DaiKin	Osaka, Japan	11400	Interface for use in BACnet DMS502B71	Proprietary	N/A	N/A	N/A	111-E3	N	N	N/A	N	N	N	N	N		
26	ELECTRICAL																			
260519	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES																			
	2.1 Conductors and Cables			Encore Wire Corporation	McKinney, TX	1922	Aluminum XHHW-2 conductor	Bare Aluminum Strand, Cross linked polyethylene	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N	
	2.1 Conductors and Cables			Encore Wire Corporation	McKinney, TX	1922	Copper XHHW-2 Conductor	Bare Copper Strand, Cross linked polyethylene	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N	
	2.1 Conductors and Cables			Encore Wire Corporation	McKinney, TX	1922	12/3 MC Copper- Steel Armor with XHHW-2 Inners	Steel Armor Jacket, Bare Copper Strand, Cross linked polyethylene	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N	
260523	CONTROL-VOLTAGE ELECTRICAL POWER CABLES																			
	2.4 UTP (Unshielded Twisted Pair) cable (Category 5e and cat 6)			Belden	Richmond, IN	1067	Belden 88760	FEP, Tinned Copper, Aluminum/Polyester Shield, Proprietary ingredients	N/A	N/A	N/A	N	N	Y	N/A	N	N	N	Y	
	2.6 RS-485 Cable																			
	2.3 Backboards						(see wood on 061000)													
	2.7 Low-Voltage Cable (LCC cable)			Belden	Richmond, IN	1067	Belden 88760	FEP, Tinned Copper, Aluminum/Polyester Shield, Proprietary ingredients	N/A	N/A	N/A	N	N	Y	N/A	N	N	N	Y	
	2.8 Control Circuit Conductors (XHHW-2 typer Wire)						(Encore, see 260519)													
260526	GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS																			
	2.2 Connectors			Misc																
	2.3 electrode			Misc																
260529	HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS																			
	2.1 Support, Anchorage, and Attachment Components: Steel Slotted Support system			Misc																
	2.1 Support, Anchorage, and Attachment Components: Raceway and cable supports			Misc																
	2.1 Support, Anchorage, and Attachment Components: Conduit and cable supports			Misc																

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	2.1 Support, Anchorage, and Attachment Components: Fasteners, Mechanical Expansion anchors, clamps, through bolts		Misc															
260533	RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS																	
	2.1 Metal conduit and tubing (EMT, IMC, GRC)		Republic Conduit	Louisville, KY	876	ERMC (Electrical Rigid Metal Conduit or GRC),IMC(Intermediate Metal Conduit),EMT (electrical metal tubing)	Galvanized Steel	N/A	N/A	N/A	N	Y	Y	N/A	N/A	Y	N	N
	2.1 Metal conduit and tubing (EMT,RMC)		Western Tube & Conduit	Long Beach, CA	3815	RMC (Rigid Metal Conduit), EMT (electrical metal tubing)	Galvanized Steel	N/A	N/A	N/A	N	Y	Y	N/A	N/A	Y	N	N
	2.1 Metal conduit and tubing (EMT fitting)		American Fittings Corporation	Fairlawn, NJ	482	EMT Connector - Compression Type-EC7x5US series	Steel	N/A	N/A	N/A	I11-E16	N	Y	N/A	N/A	Y	N	N
	2.1 Metal conduit and tubing (EMT fitting)		American Fittings Corporation	Fairlawn, NJ	482	EMT Couplings-Compression Type-EC 76xUS series	Steel	N/A	N/A	N/A	I11-E16	N	Y	N/A	N/A	Y	N	N
	2.3 Metal Wireways and Auxiliary Gutters		Pentair Technical Products	Minneapolis, MN	2426	F66T124GV, Galvanized wireway	Steel	N/A	N/A	N/A	I14-E6	N	Y	N/A	N/A	Y	N	N
	2.5 Boxes, Enclosures and Cabinets (Boxes)		Pentair Technical Products	Minneapolis, MN	2426	ASG12X12X4NK Screw Cover Type 1 Galvanized Box	Steel	N/A	N/A	N/A	I14-E6	N	Y	N/A	N/A	Y	N	N
	2.5 Boxes, Enclosures and Cabinets (Boxes)		Raco (Division of Hubbell Incorporated)	South Bend, IN	1609	Catalog 126 -4" Octagon Box, 1-1/2" Deep, 3/4" Side Knockouts	Recycled Steel	N/A	N/A	N/A	I11-E16	N	Y	N/A	N/A	Y	N	N
	2.5 Boxes, Enclosures and Cabinets (Boxes)		Raco (Division of Hubbell Incorporated)	South Bend, IN	1609	Catalog 127 -4" Octagon Box, 1-1/2" deep, 1/2" and 3/4" side knockouts	Recycled Steel	N/A	N/A	N/A	I11-E16	N	Y	N/A	N/A	Y	N	N
	2.5 Boxes, Enclosures and Cabinets (Boxes)		Raco (Division of Hubbell Incorporated)	South Bend, IN	1609	Catalog 192 -4" Square Box, 1-1/2" deep, 1/2" and 3/4" side knockouts, Drawn	Recycled Steel	N/A	N/A	N/A	I11-E16	N	Y	N/A	N/A	Y	N	N
	2.5 Boxes, Enclosures and Cabinets (Boxes)		Raco (Division of Hubbell Incorporated)	South Bend, IN	1609	Catalog 231 -4" Square Box, 2-1/8" Deep, 3/4" side knockout, Welded	Recycled Steel	N/A	N/A	N/A	I11-E16	N	Y	N/A	N/A	Y	N	N
	2.5 Boxes, Enclosures and Cabinets (Boxes)		Raco (Division of Hubbell Incorporated)	South Bend, IN	1609	Catalog 232 -4" Square Box, 2-1/8" Deep, 1/2" and 3/4" Side Knockouts, Welded	Recycled Steel	N/A	N/A	N/A	I11-E16	N	Y	N/A	N/A	Y	N	N
	2.5 Boxes, Enclosures and Cabinets (Boxes)		Raco (Division of Hubbell Incorporated)	South Bend, IN	1609	Catalog 233 -4" Square Box, 2-1/8" Deep, 1" side Knockouts,Welded	Recycled Steel	N/A	N/A	N/A	I11-E16	N	Y	N/A	N/A	Y	N	N
	2.5 Boxes, Enclosures and Cabinets (Boxes)		Raco (Division of Hubbell Incorporated)	South Bend, IN	1609	Catalog 257-4-11/16" Square Box, 2-1/8" Deep, 1/2" and 3/4" side Knockouts, Welded	Recycled Steel	N/A	N/A	N/A	I11-E16	N	Y	N/A	N/A	Y	N	N
	2.5 Boxes, Enclosures and Cabinets (Boxes)		Raco (Division of Hubbell Incorporated)	South Bend, IN	1609	Catalog 650-4x2 Handy Box-welded	Recycled Steel	N/A	N/A	N/A	I11-E16	N	Y	N/A	N/A	Y	N	N
	2.5 Boxes, Enclosures and Cabinets (Boxes)		Raco (Division of Hubbell Incorporated)	South Bend, IN	1609	Catalog 752-4"square Blank Cover	Recycled Steel	N/A	N/A	N/A	I11-E16	N	Y	N/A	N/A	Y	N	N
	2.5 Boxes, Enclosures and Cabinets (Boxes)		Raco (Division of Hubbell Incorporated)	South Bend, IN	1609	Catalog 768-4"square Mud Ring, and 5/8" Raised Cover for 1 device	Recycled Steel	N/A	N/A	N/A	I11-E16	N	Y	N/A	N/A	Y	N	N
	2.5 Boxes, Enclosures and Cabinets (Boxes)		Raco (Division of Hubbell Incorporated)	South Bend, IN	1609	Catalog 774-4"square Mud Ring and 1" Raised Cover for 1 device	Recycled Steel	N/A	N/A	N/A	I11-E16	N	Y	N/A	N/A	Y	N	N
	2.5 Boxes, Enclosures and Cabinets (Boxes)		Raco (Division of Hubbell Incorporated)	South Bend, IN	1609	Catalog 780-4"square Mud Ring and 1" Raised Cover for 2 devices	Recycled Steel	N/A	N/A	N/A	I11-E16	N	Y	N/A	N/A	Y	N	N
	2.5 Boxes, Enclosures and Cabinets (Boxes)		Raco (Division of Hubbell Incorporated)	South Bend, IN	1609	Catalog 832-4-11/16"square box Cover, Flat Blank	Recycled Steel	N/A	N/A	N/A	I11-E16	N	Y	N/A	N/A	Y	N	N
	2.5 Boxes, Enclosures and Cabinets (Boxes)		Raco (Division of Hubbell Incorporated)	South Bend, IN	1609	Catalog 860-4 x6 Handy Box Flat Blank Cover	Recycled Steel	N/A	N/A	N/A	I11-E16	N	Y	N/A	N/A	Y	N	N
260553	IDENTIFICATION FOR ELECTRICAL SYSTEMS																	
	2.2 Conductor identification materials (lables)		MISC								I14-E6							
	2.4 Underground line warning tape		MISC								I14-E6							
	2.5 Warning lables and signs		MISC								I14-E6							
	2.6 Equipment identification labels		MISC								I14-E6							
	2.7 cable ties		MISC								I14-E6							

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260573	OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY																		
260800	ELECTRICAL SYSTEM COMMISSIONING																		
260913	ELECTRICAL POWER MONITORING AND CONTROL																		
	2.7 Power Monitors			(see 260936)															
	2.9 LAN Cables (communications Horizontal Cabling)			(Belden, see 260523)															
260923	LIGHTING CONTROL DEVICES																		
	2.1 Indoor Occupancy Sensors			Sensorswitch (Acuity Brands)	N/A	N/A	Extended Range 360° Sensor CM10, Ceiling Mounted, Low Voltage, Passive Infrared (PIR)	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.1 Indoor Occupancy Sensors			Sensorswitch (Acuity Brands)	N/A	N/A	Extended Range 360° Sensor CM PDT 10, Ceiling Mounted, Low Voltage, Dual Technology (PDT)	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.1 Indoor Occupancy Sensors			Sensorswitch (Acuity Brands)	N/A	N/A	Standard Range 360° Sensor CM PDT 10, Ceiling Mounted, Low Voltage, Dual Technology (PDT)	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.1 Indoor Occupancy Sensors			Sensorswitch (Acuity Brands)	N/A	N/A	Wide View Sensor WV PDT 10, Corner Mount, Line Voltage, Dual Technology (PDT)	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.1 outdoor Occupancy Sensors			Sensorswitch (Acuity Brands)	N/A	N/A	Low Mount 360° Sensor SBGR PDT 10, Embedded Small Box, Line Voltage, Dual Technology (PDT), IPGG rated	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.2 Switchbox Mounted Occupancy Sensors			Sensorswitch (Acuity Brands)	N/A	N/A	Switchpod SPODM, Sensor Interface Switch, Manual/Auto, Low Voltage, Push Button	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.2 Switchbox Mounted Occupancy Sensors			Sensorswitch (Acuity Brands)	N/A	N/A	Wall Switch Sensor WSX PDT Family,	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.3 Daylight Harvesting dimming controls			Sensorswitch(Acuity Brands)	N/A	N/A	Automatic Dimming Control Photocell Sensor CM-ADC, Ceiling mount, Low Voltage.	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.4 time switches			Sensorswitch (Acuity Brands)	N/A	N/A	Programmable Timer Switch, PTS 60 and PTS 720, Line Voltage, Decorator Style	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.5 emergency shunt relay			Sensorswitch (Acuity Brands)	N/A	N/A	PP16 Shunt bypass Relay	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.5 emergency shunt relay			Sensorswitch (Acuity Brands)	N/A	N/A	Power Packs and Slave Packs PP20, PP20 2P, SP20	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.6 conductors and cables			See 260519															
	2.6 conductors and cables			Belden	Richmond, IN	1067	Belden 88760	FEP, Tinned Copper, Aluminum/Polyester Shield, Proprietary ingredients	N/A	N/A	N/A	N	N	Y	N/A	N	N	N	Y
260936	MODULAR DIMMING CONTROLS																		
	2.1 Integrated, Multiperset Modular dimming controls			nLight (Acuity Brands)	N/A	N/A	Auxiliary Relay nAR40, 40 VAC/VDC	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.1 Integrated, Multiperset Modular dimming controls (Occupany Sensor as part of system)			nLight (Acuity Brands)	N/A	N/A	Micro 360° SENSOR, nES 7, Embedded Mount, Low Voltage, Passive Infrared (PIR)	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.1 Integrated, Multiperset Modular dimming controls (Daylight Harvesting Control as part of system)			nLight (Acuity Brands)	N/A	N/A	Micro Dimming Photocell nES ADCX, Embedded Mount, Low Voltage	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N

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	2.1 Integrated, Multipreset Modular dimming controls (Occupancy Sensor as part of system)			nLight (Acuity Brands)	N/A	N/A	Micro 360° SENSOR, nES PDT 7, Embedded Mount, Low Voltage, Dual Technology (PDT)	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.1 Integrated, Multipreset Modular dimming controls (Input/output Low Voltage Device as part of system)			nLight (Acuity Brands)	N/A	N/A	Input/Output Interface Device nIO D, nIO 1S, low voltage	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.1 Integrated, Multipreset Modular dimming controls (Input/output Low Voltage Device as part of system)			nLight (Acuity Brands)	N/A	N/A	External Touch Panel Interface nIO X	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.1 Integrated, Multipreset Modular dimming controls (Control Module as part of system)			nLight (Acuity Brands)	N/A	N/A	Graphic Wallpod nPOD GFX	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.1 Integrated, Multipreset Modular dimming controls (Emergency Relay as part of system)			nLight (Acuity Brands)	N/A	N/A	Power Relay Pack nPP16	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.1 Integrated, Multipreset Modular dimming controls (Shade Interface as part of system)			nLight (Acuity Brands)	N/A	N/A	Pulse on/off Shade Interface Pack nShade	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.1 Integrated, Multipreset Modular dimming controls (Occupancy Sensor as part of system)			nLight (Acuity Brands)	N/A	N/A	120° WIDE VIEW SENSOR nWV PDT 16, Corner Mount, Low Voltage, Dual Technology (PDT)	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.2 conductors and cables			(See 260519)															
260945	NETWORK LIGHTING AND RECEPTACLE CONTROLS																		
	2.3 Control Module (software)			LC&D (Acuity Brands)	N/A	N/A	Lighting Contorl Software Unity 2	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.4 Power distribution components (panelboard)			LC&D (Acuity Brands)	N/A	N/A	GR 2400 Control Panel and Accessories	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.5 Manual analog switches and plates			LC&D (Acuity Brands)	N/A	N/A	GR 2400 Switch (Chelsea Digital Switch)	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.6 Field Mounted digital control and plates			LC&D (Acuity Brands)	N/A	N/A	Digilink Contact Closure Interface	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.6 Field Mounted digital control and plates			LC&D (Acuity Brands)	N/A	N/A	Link-to Building Automation	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.7 conductors and cables			(See 260519)															
262416	PANELBOARDS																		
	Circuit Breaker			Schneider Electric	N/A	N/A	Circuit Breaker	UP Polyester, Steel, Brass, Non-Ferrous alloys, Nickel, Copper, Stainless steel, Resin Phenolic Formaldehyde, PC Polycarbonate, Cardboard, paper	N/A	N/A	N/A	I14-E5, I11-E20	Y	Y	N/A	N	Y	N	N
	2.2 Distribution Panelboards			Schneider Electric	Peru, IN	679	I-Line Power Distribution Panelboard	circuit breaker and housing	N/A	N/A	N/A	I14-E5, I11-E20; I11-E3	N	Y	N/A	N	N	N	N
	2.3 lighting and appliance branch-circuit panelboards			Schneider Electric	Peru, IN	679	NQ lighting panelboard	circuit breaker and housing	N/A	N/A	N/A	I14-E5, I11-E20; I11-E3	N	Y	N/A	N	N	N	N
	GR2400 control panel			LC&D	N/A	N/A	GR 2400 Control Panel	small electrical component	N/A	N/A	N/A	I11-E20	N	Y	N/A	N/A	N	N	N
	2.4 disconnecting and overcurrent protective devices			Schneider Electric	Peru, IN	679	Square D External Panel Surge Protective Devices	circuit breaker and housing	N/A	N/A	N/A	I14-E5, I11-E20; I11-E3	N	Y	N/A	N	N	N	N
262713	ELECTRICITY METERING																		
	2.1 Kilowatt-Hour Meter			Elster	Ocala, FL	1028	Kilowatt hour Meter	proprietary	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	N
262726	WIRING DEVICES																		
	2.2 Straight Blade receptables			Hubbell			5362W White Duplex Receptacle					I14-E6							
	2.2 Straight Blade receptables			Hubbell			HBL5361 W White Single Receptacle					I14-E6							
	2.3 GFCI receptables			Hubbell			GF20WLA					I14-E6							
	2.4 Twist-Locking Receptables			Hubbell			HBL 2310 TwistLock					I14-E6							
	2.5 Telecommunications outlets			Hubbell								I14-E6							
	2.6 Snap Switches			Hubbell			1221 W 1 pole switch					I14-E6							
	2.6 Snap Switches			Hubbell			1223W 3 way switch					I14-E6							
	2.7 Wall_Box Dimmers											I14-E6							
	2.8 Fan Speed Control											I14-E6							
	2.9 Wall plates			Hubbell			RW 57300 1 Gang weatherproof cover					I14-E6							
	2.9 Wall plates			Hubbell			NP 1W white I gang switchplate					I14-E6							
	2.9 Wall plates			Hubbell			NP 2W white I gang switchplate					I14-E6							

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	2.9 Wall plates		Hubbell			NP 7W white 1 gang switchplate												
	2.9 Wall plates		Hubbell			NP 8W white 1 gang switchplate												
	2.9 Wall plates		Hubbell			NP 82W white 1 gang switchplate												
	2.9 Wall plates		Hubbell			NP 26W Decora Plate GFCI												
	2.10 Floor Boxes		Legrand			WireMold Omnibox Series Floor Box and accessories												
	2.10 Floor Boxes		Legrand			WireMold Evolution Series Floor box and accessories (wood infill)												
262813	FUSES																	
	2.2 Cartridge Fuses		Bussmann			Cooper Bussmann LPN-RK-40SP Fuse												
	2.2 Cartridge Fuses		Bussmann			Cooper Bussmann LPN-RK-20SP Fuse												
262816	ENCLOSED SWITCHES AND CIRCUIT BREAKERS																	
	2.1 Disconnect Switch		Square D (Schneider& Electric)	Lexington, KY	948	Heavy Duty Safty Switches (H221N, H222N, H322N, H322NRB,	Small electrical components	N/A	N/A	N/A	I11-E20	N	Y	N/A	N	N	N	N
	2.2 Receptacle Switch										I14-E6							
	2.4 Molded-case Circuit Breakers										I14-E6							
	2.5 Molded-case switches										I14-E6							
	2.6 Enclosures																	
262913	ENCLOSED CONTROLLERS																	
	2.1 Full Voltage Controllers		Hubbell -Wring	Shelton, CT	556	Circuit Lock Manual Motor Controller- Disconnect Switches (HBL 1379D, HBL 1372D)	Small electrical components	N/A	N/A	N/A	I11-E20	N	Y	N/A	N	N	N	N
262923	VARIABLE-FREQUENCY MOTOR CONTROLLERS																	
	Variable Frequency Motor Controllers: Variable Frequency Drives (VFD)		Danfoss (Hoffman-Hoffman Inc)	Loves Park, IL	1274	VLT HVAC Drive series FC-102 (Full Package)	Enclosure, Display, switches and proprietary Ingredients	N/A	N/A	N/A	I11-E20	N	Y	N/A	N	N	N	N
263100	PHOTOVOLTAIC ENERGY EQUIPMENT																	
	Connector system		Multi-Contact- Staubi Group			MC4 solar contact												
	PV Wires		Southwire	Carrollton, GA	904	Copper 2KV Copper PV wire	Copper, XLPE	N/A	N/A	N/A	I11-E20	Y	Y	N/A	N	N	N	N
	PV panel		SolarWorld	Cedar Rapids, IA	1462	Sunmodule SW 270 mono/2.5 Frame	PV laminates mounted in anodized extruded-aluminum frames	N/A	N/A	N/A	I11-E20, I11-E3	N	Y	N/A	N	N	N	Y
	2.8 Inverter		Fronius International GmbH	Austria	6387	Sunny tower	Printed Circuit Boards, Conductor Rail, Housing, Mains Filter, DC Filter, Power Rack CL, fan Air Filter	N/A	N/A	N/A	I11-E20, I11-E3	N	Y	N/A	N	N	N	Y
	Web box		Fronius International GmbH	Austria	6387	Data Logger Web 2	printed wired board, Enclosure, Steel	N/A	N/A	N/A	I11-E20	N	Y	N/A	N	N	N	Y
	mounting kits		S-5!			S-5-S clamp					I14-E6							
	2.9 JIC box		MidNite Solar, INC	Arlington, WA	3888	Combiner Box MNPV8HV4X	aluminum, Circuit Breaker, Polycarbonate, Fuse Holder, Fuse, Copper Bussbar	N/A	N/A	N/A	I11-E20	N	Y	N/A	N	N	N	Y
	2.9 surge Protective Device		MidNite Solar, INC	Arlington, WA	3888	MNSPD protective device	thermal metal oxide varistors, wire, conformal coating and tin/lead solder	N/A	N/A	N/A	I11-E20	N	Y	N/A	N	N	N	Y
263223.13	HORIZONTAL-AXIS WIND TURBINES																	
	Wind Turbines		BERGEY WINDPOWER	Norman, OK	1197	Excel-S 10 kW wind turbine	Blades, Tail, Alternator, Nose Cone, Nacelle, Inverter, tail boom bumper	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	Y	N	N
	Pole		MAICO INDUSTRIES, INC	Ellsworth, KS	1220	Wind Turbine Pole	Carbon Steel, Zinc Galvanizing	N/A	N/A	N/A	N	N	Y	N/A	N	Y	N	N
	Concrete Foundation																	
	Cement		Lehigh Cement Company	Union Bridge, MD	310	Portland Cement	Cement	N/A	N/A	N/A	N	N		N/A	N	Y	N	N
	Fly Ash		Boral Materials Technologies, INC	Chesapeake, VA	310	Fly ash	all types of oxides	N/A	N/A	N/A	I11-E16	N	Y	N/A	N	Y	N	N

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	silica Fume			SIKA	Farless Hills, PA	378	Sika DP 950	Microsilica (SiO2) and Proprietary	N/A	N/A	N/A	N	N	Y	N/A	N	N	N	Y
	Stone			Ican Material Company	Skippers, VA	85	Granite Stone	Crystalline Silica	N/A	N/A	N/A	N	N	Y	N/A	N	Y	N	N
	Sand			Newsome Pit #2	Winton, NC	99	CRMP (Commerical Ready Mix Product)	sand	N/A	N/A	N/A	N	N	Y	N/A	N	Y	N	N
	Admixture			SIKA	Farless Hills, PA	378	Plastiment	Proprietary	N/A	N/A	N/A	N	N	Y	N/A	N	N	N	Y
	Admixture			SIKA	Farless Hills, PA	378	4100 Viscocrete	Proprietary	N/A	N/A	N/A	N	N	Y	N/A	N	N	N	Y
	Admixture			SIKA	Farless Hills, PA	378	AEA-14	Proprietary	N/A	N/A	N/A	N	N	Y	N/A	N	N	N	Y
	Admixture			SIKA	Farless Hills, PA	378	CNI	Calcium Nitrite and water	N/A	N/A	N/A	N	N	Y	N/A	N	Y	N	N
	PC (prestressed Concrete) strand			Insteel Wire Products	Hazle Township, PA	456	PC strand	Steel	N/A	N/A	N/A	N	N		N/A	N	N	Y	Y
	Pile Splice			Emeca-SPE/USA	Laurel, DE	217	12" Pile Splice	steel	N/A	N/A	N/A	N	N	Y	N/A	N	N	Y	Y
263323	CENTRAL BATTERY EQUIPMENT																		
	2.4 Lighting Inverter			Crucial Power Products	Commerce, CA	3808	Wave Ride 1 Emergency Lighting Inverter	Cabinet, VRLA batteries, Power board, fans, fans transformer, input contractor, input breaker, battery Breaker, Control Board, Input Contactor, Heat sink	N/A	N/A	N/A	N	N	Y	N/A	N	N	Y	Y
	2.7 Enclosures (part of lighting inverter, >10%)			Online Power	CA local	N/A	Cabinet	Steel and Powder coating	N/A	N/A	N/A	N							
	2.6 Batteries (part of lighting inverter, >10%)			Universal Power	N/A	N/A	Sealed Lead Acid Battery	Pb, PbO2, PbSO4, H2SO4	N/A	N/A	N/A								
264313	TRANSIENT-VOLTAGE SUPPRESSION FOR LOW-VOLTAGE ELECTRICAL POWER CIRCUITS																		
	TVSS for low-voltage (120 to 600 V) power distribution and control equipment.			Square D (Schneider & Electric)	Salt Lake City, UT	3123	External Panel Surge Protective Devices, TVS2EMA48AI	Electrical Components	N/A	N/A	N/A	I11-E20	N	Y	N/A	N	N	N	Y
	Surge Switch (part of TVSS)			Mersen USA	Newburyport, MA	3379	Switch SS200-4	small electrical components	N/A	N/A	N/A	I11-E20	N	Y	N/A	N	N	N	Y
265100	INTERIOR LIGHTING																		
	Fan			Big Ass Solutions	Lexington, KY	950	Haiku	motor, blades, power supply	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	Y	N	N
				Gracezone	China		Motor Ferite magnets	Ferite	N/A	N/A	N/A								
				Gracezone	China		Motor Laminated Steel	Steel	N/A	N/A	N/A								
				Gracezone	Malaysia		Matrix Composite Airfoils	AbS Plastic, Paint	N/A	N/A	N/A								
	lamps (CFL, LFL, HID)			GE lighting	Cleveland, OH	714	CFL, LFL, HID lamps	Soda Lime Glass, Phosphor, aluminum and electrodes and wires	N/A	N/A	N/A	I11-E3, I11-E13	N	Y	N/A	N	N	N	Y
	Type AA			Kurt Versen Company	Westwood, NJ	490	B1236	Steel, Aluminum, Electrical components, Wire	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	Y
	Type AC			Copper Lighting (Eaton)	Peachtree City, GA	873	PN41H42E-E4DLSR2GMW	Not provided	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	N
	Type DA/DV			Barn Light Electric	Titusville, FL	1022	Pendant light	porcelain steel and aluminum	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	N
	Type FA			Prudential LTG	Los Angeles, CA	3814	P8022	Cold Rolled Steel, ABS pastic, Solid Wire, Aluminum	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	Y
	Type FB1/FB2			Axis Lighting Inc.	LaSalle, Quebec	974	Suspended Luorescent Luminaires	Extruded Aluminum, Die Cast Zinc, Cold Rolled Steel, PMMA lens, others	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	Y
	Type FD1/FD2			Prudential LTG	Los Angeles, CA	3814	PT5	Cold Rolled Steel, ABS pastic, Solid Wire, Carbon Steel	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	Y
	Type FE			Lithonia Lighting	Conyers, GA	2617	DMV 2 28T5 MVOLT GEB10PS	polyester and glass fiber housing, acrylic lens, ABS, etc	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	Y	N	N
	Type FG			The Lighting Quotient	West Haven, CT	557	F308 Concealed Fluorescent Luminaire	N/A	N/A	N/A	I11-E20	N	Y	N/A	C to C	N	N	N	N
	Type FH			Lithonia Lighting	China	N/A	Vaportight Security Light	not available	N/A	N/A	N/A	I11-E20							
	Type WA			Axis Lighting Inc	LaSalle, Quebec	974	Suspended Luorescent Luminaires	Extruded Aluminum, Cold Rolled Steel, Acrylic Lens, others	N/A	N/A	N/A	I11-E3 4/2010	N	Y	N/A	N	N	N	Y

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	Type WB1, 2, 3, 4		Axis Lighting Inc	LaSalle, Quebec	974	Suspended Luorescent Luminaires	Extruded Aluminum, Die Cast Zinc, Cold Rolled Steel, PMMA lens, others	N/A	N/A	N/A	I11-E3 4/2010	N	Y	N/A	N	N	N	Y
	Type WD		Prudential LTG	Los Angeles, CA	3814	PT5	Cold Rolled Steel, ABS pastic, Solid Wire, Aluminum	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	Y
	Exit Sign X1/X2		Copper Lighting (Eaton)	Peachtree City, GA	873	ES61RC, ES62RC	Not provided	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	N
265600	EXTERIOR LIGHTING																	
	XP A1/A2		Philips Gardco	San Marcos, TX	2178	Gulwing	Ballast (11%) and other small components	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	Y
	XP A1/A2 lamp-HID		GE Lighting	Cleveland, OH	714	GE Metal Halide Lamp 45670	Glass/Quartz, Metal and others	N/A	N/A	N/A	N/A	N	Y	N/A	N	N	N	Y
	XPA1 Light Pole		Valmont	Valley, NE	1822	DS330 SSS-SPCL Cap	Aluminum Tube, Anchor bolts and base	N/A	N/A	N/A	N/A	N	Y	N/A	N	Y	N	N
	XPB		Philips Gardco	San Marcos, TX	2178	Bollard LED	small components (all < 10%)	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	Y
	XWA		Philips Gardco	San Marcos, TX	2178	CosmoPolis Electronic HID System	Cast and Extruded Aluminum Alloy Housing (63%) and other components	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	Y
	XWB		Hubbell Lighting Inc	Christiansburg, VA	317	LED Wallpack PVL3-30LU-4K-035-BZ	Die Cast Aluminum, Solid Wire, Electrical component	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	N	N	Y
27	COMMUNICATOINS	x																
270528	PATHWAYS FOR COMMUNICATIONS SYSTEMS	x																
	2.1 Metal Conduits and Fittings		Republic Conduit	Louisville, KY	876	ERMC (Electrical Rigid Metal Conduit or GRC),IMC(Intermediate Metal Conduit),EMT (electrical metal tubing)	Galvanized Steel	N/A	N/A	N/A	N	Y	Y	N/A	N/A	Y	N	N
	2.3 Boxes, enclosures and cabinets		(Raco, see 260533)															
270544	SLEEVES AND SLEEVE SEALS FOR COMMUNICATIONS PATHWAYS AND CABLING		(see Div 26)															
271500	COMMUNICATIONS HORIZONTAL CABLING																	
	2.4 UTP cable		(Belden, 260523)															
	2.5 UTP cable hardware																	
	2.6 Telecommunications outlet/connectors																	
	2.7 Grounding																	
	A/V Package (all A/V plugged in)																	
	Speaker		JBL	China	N/A	CBT 100LA-1-WH	not available	N/A	N/A	N/A	I11-E20							
28	ELECTRONIC SAFETY AND SECURITY	x																
283111	DIGITAL, ADDRESSABLE FIREALARM SYSTEM	x																
	2.3 Fire Alarm Control Panel, Configured parts		SimplexGrinnell (Tyco)	Mexico, USA	500-1500	4010-9402 FACP	Complex Electrical Products	N/A	N/A	N/A	I11/E3, I11-E20	N	Y	N/A	N	N	N	Y
	2.3 FACP accessories,non- configured parts		SimplexGrinnell (Tyco)	N/A	N/A	System Batteries, Sealed Lead-Acid	Lead Acid											
	2.4 Manual Fire Alarm Boxes		SimplexGrinnell (Tyco)	N/A	N/A	4099-9003 Pull Station	Complex Electrical Products	N/A	N/A	N/A	I11/E3, I11-E20	N	Y	N/A	N	N	N	Y
	2.5 System Smoke Detectors		SimplexGrinnell (Tyco)	N/A	N/A	4098-9714 Photoelectric Smoke Sensor & Sensor Base	Complex Electrical Products	N/A	N/A	N/A	I11/E3, I11-E20	N	Y	N/A	N	N	N	Y
	2.6 Notification appliances		SimplexGrinnell (Tyco)	N/A	N/A	Notification Appliances												
	2.7 Remote Annunciator		SimplexGrinnell (Tyco)	N/A	N/A	4606-9102 LCD Annunciator	Complex Electrical Products	N/A	N/A	N/A	I11/E3, I11-E20	N	Y	N/A	N	N	N	Y
	2.9 Addressable Interface Device		SimplexGrinnell (Tyco)	N/A	N/A	4010-9908 Auxiliary Relay Module	Complex Electrical Products	N/A	N/A	N/A	I11/E3, I11-E20	N	Y	N/A	N	N	N	Y
	2.10 Digital Alarm Communicator Transmitter		SimplexGrinnell (Tyco)	N/A	N/A	4010-9811 Dual RS232 Module	Complex Electrical Products	N/A	N/A	N/A	I11/E3, I11-E20	N	Y	N/A	N	N	N	Y
	2.13 Transient Voltage Surge Suppression(TVSS)		SimplexGrinnell (Tyco)	N/A	N/A	2081-9044 Overvoltage Protector	Complex Electrical Products	N/A	N/A	N/A	I11/E3, I11-E20	N	Y	N/A	N	N	N	Y
	2.13 Transient Voltage Surge Suppression(TVSS)		SimplexGrinnell (Tyco)	N/A	N/A	4081-9004 6.8K EOL .5W & 4081-9004 10K EOL .5W Resistor	Complex Electrical Products	N/A	N/A	N/A	I11/E3, I11-E20	N	Y	N/A	N	N	N	Y

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	2.13 Transient Voltage Surge Suppression(TVSS)			SimplexGrinnell (Tyco)	N/A	N/A	4603-9111 Bruch Trim Plate	Complex Electrical Products	N/A	N/A	N/A	I11/E3, I11-E20	N	Y	N/A	N	N	N	Y
	2.13 Transient Voltage Surge Suppression(TVSS)			SimplexGrinnell (Tyco)	N/A	N/A	4090-9001 Supervise IAM	Complex Electrical Products	N/A	N/A	N/A	I11/E3, I11-E20	N	Y	N/A	N	N	N	Y
	2.13 Transient Voltage Surge Suppression(TVSS)			SimplexGrinnell (Tyco)	N/A	N/A	Relay Module	Complex Electrical Products	N/A	N/A	N/A	I11/E3, I11-E20	N	Y	N/A	N	N	N	Y
31	EARTHWORK	1	500 km																
311000	SITE CLEARING																		
	2.1 Satisfactory Soil material			all soil material on site, no borrow soil															
312000	EARTH MOVING																		
	2.2 Accessories: Warning Tapes																		
	2.1 Satisfactory Soil material			all soil material on site, no borrow soil															
	Aggregate Layer: subbase course/bedding course/Drainage Course						(see 321443)	Aggregate layer											
31 25 00		5	5000 km																
31 35 00		5	5000 km																
32	EXTERIOR IMPROVEMENTS	1	500 km																
321443	POROUS UNIT PAVING																		
	2.1 Concrete Unit Pavers			Eagle Bay	Richmond, VA	111	Ecobay paver (James River)			N/A	N		N	Y	N/A	N	Y	Y	N
							C-33 Sand	Petersburg, VA	10										
							Granite aggregates	Petersburg, VA	10										
							Iron Oxides	Petersburg, VA	10										
							portland Cement	Cloverdale, VA	200										
	2.1C Edge Restraints			Colli Metal Specialties LTD	Garland, TX	1933	Bown Steel Landscape Edging	Raw steel and powder coating (red list free)				I14-E6							
	2.2B Aggregate Setting-bed Material: Graded Aggregate for Paver Base			Luck Stone's (Rockville Quarry)	Rockville, MD	268	Aggregate stones	Natural ingredient	N/A	N/A	N/A	N	N	Y	N/A	N	Y	N	N
	2.2C Aggregate Setting-bed Material: Drainage Geotextile			Dalco Nonwovens, LLC	Conover, NC	487	Daltex 1040 nonwoven geotextile	polypropylene Fiber and water	N/A	N/A	N/A	N	N	Y	N/A	N	Y	N	N
	2.3A Fill Materials			Same as Aggregate															
32 80 00		5	5000 km																
329201	TURF AND GRASSES																		
	2.1 Mulch			Hardwood Mulch	Boykins, VA	117	Mulch	Wood Cellulose Fiber	N/A	N/A	N/A	N	N	Y	N/A	N	N/A	N	N
	2.1L Seeding			no seeding took place															
329301	PLANTS																		
	2.2 Trees and Shrubs			Lancaster Farms	Suffolk, VA	55	Plants/Trees	Plants/Trees	N/A	N/A	N/A	N	N	Y	N/A	N	N	N	N
	2.1 topsoil			all on site, no borrow soil															
33	UTILITIES	5	5000 km																
331101	SITE WATER DISTRIBUTION																		
	2.1 Fitting			(see 333101)															
	2.1 pipes (Ductile Iron)			(see 333101)															
	2.1 Fire Service pipes (HDPE)			(see 333101)															
	2.2 Joining materials			(see 333101)															
	2.2 Joint Restraint			Tyler Union	Tyler, Texas	956	Megalug for restrained joints	100% scrap iron	N/A	N/A	N/A	I11-E16 11/2012	N	Y	N/A	N	Y	N	N
	2.3 Piping specialties (Fitting and coupling)			Tyler Union	Tyler, Texas	956	Mechanical Joint fittings	100% scrap iron	N/A	N/A	N/A	I11-E16 11/2012	N	Y	N/A	N	Y	N	N
	2.4-2.5 Gate Valves			American Valve	Greensboro, NC	400	G100 Gate Valve and Tapping Valve	Alloy, PTFE, DR plated, Zn Plated, etc	N/A	N/A	N/A	I11-E16	N	Y	N/A	N	Y	N	N
	2.4-2.5 Gate Valves and accessroies			The Ford Meter Box Company, INC	Wasash, Indiana	959	FB1700NL Ball Corp	Copper, Tin,Zinc, Bismuth, Lead (<0.1%)	N/A	N/A	N/A	I11-E16 11/2012	N	Y	N/A	N	Y	N	N
	2.4-2.5 Gate Valves and accessroies			American Valve	Greensboro, NC	400	G100NL Bronze Ball Valve	Copper alloy, PTFE, carbon steel, etc	N/A	N/A	N/A	I11-E18 8/2011	N	Y	N/A	N	Y	N	N
	2.4-2.5 Gate Valves and accessroies			Cambridge Lee Industries LLC	Reading, PA	387	Type K Copper Tubing	Copper Scrap	N/A	N/A	N/A	I11-E16 11/2012	N	Y	N/A	N	Y	N	N
	2.4-2.5 Gate Valves and accessroies			The Ford Meter Box Company, INC	Wasash, Indiana	959	F1000NL Taper Thread Inlet for Corp Stop	Copper, Tin,Zinc, Bismuth, Lead (<0.1%), stainless steel	N/A	N/A	N/A	I11-E16 11/2012	N	Y	N/A	N	Y	N	N

CSI MASTER FORMAT NUMBER	SPEC SECTION/PRODUCT	ZONE #	MANUFACTURER INFORMATION			PRODUCT INFORMATION					NOTABLE PRODUCT?			SUPPORTING DOCUMENTS					
			NAME	LOCATION (city, state/province, country)	DISTANCE FROM SITE (km)	NAME	PRIMARY CONTENTS	CONTENT LOCATION (city, state/province, country)	CONTENT DISTANCE FROM MNFR (km)	RESPONSIBLE INDUSTRY (FSC Certified with COC#, salvaged, or onsite)	EXCEPTION APPLIED? (yes/no)	RED LIST (yes/no)	APP. SOURCING (yes/no)	FSC CERTIFIED (yes/no)	DECLARE ID	FULL INGREDIENT LIST (or <1% PROPRIETARY)	MSDS	RED LIST COMPLIANCE LETTER (W/O FULL INGREDIENT LIST)	
	2.4-2.5 Gate Valves and accessories	6 15000 km	The Ford Meter Box Company, INC	Wasash, Indiana	959	KV43-444WML angle Key Meter Valve	Copper, Tin,Zinc, Bismuth, Lead (<0.1%), stainless steel	N/A	N/A	N/A	I11-E16 11/2012	N	Y	N/A	N	Y	N	N	
	2.5 Gate Valves accessories		Tyler Union	Tyler, Texas	956	tapping sleeve assemblies	100% scrap iron	N/A	N/A	N/A	I11-E16 11/2012	N	Y	N/A	N	Y	N	N	
	Tracing Wire		Agave Wire LTD	Dallas, TX	2100	10 Gauge Solid Bare Copper	Copper				I14-E6								
	Marking Tape		Pro-Pak Industries, INC			Detectable Marking Tape					I14-E6								
	2.6 Water meter		Sensus	Uniontown, PA	293	SR11 1" Water Meter	Brass Maincase, Regiter, electronic components, etc	N/A	N/A	N/A	I11-E17	N	Y	N/A	N	N	N	Y	
	2.8 Meter Vaults		Mason built it on site																
	2.9 Fire Hydrants		Kennedy Valve (A Division of McWane, Inc)	Elmira, NY	587	Kennedy K81 Fire Hydrant	Iron, Brass, Buna Rubber	N/A	N/A	N/A	I11-E18	N	Y	N/A	N	Y	N	N	
	2.10 Fire Department Connection		Guardian Fire Equipment, INC	Miami, FL	1296	#6327 Fire department connection, 6 x 2 1/2 x 2 1/2	Tin, Lead, Zinc	N/A	N/A	N/A	I11-E18	N	Y	N/A	N	Y	N	N	
	2.10 Fire Department Connection		Guardian Fire Equipment, INC	Miami, FL	1296	#6404 Plug 2 1/2"	Brass Maincase, Regiter, electronic components, etc	N/A	N/A	N/A	I11-E18	N	Y	N/A	N	Y	N	N	
	2.10 Fire Department Connection		Mueller System	Cleveland, NC	535	EDC4 Spring Loaded Detector Check Valve	Valve EDC4 body, Clapper Assembly, and others	N/A	N/A	N/A	I11-E3	N	Y	N/A	N	Y	N	N	
						EDC4 (Detector Check Valve Body)	Ductile iron												
						EDC4 (Detector Check Epoxy Coating)	proprietary												
333101	SITE SANITARY SEWERS																		
	2.1 Hub and Spigot, Cast Iron Soil pipe and fittings: A) Pipe and Fitting		Griffin Pipe Products, CO, INC	Lynchburg, VA	550	ductile iron pipes and fittings	ductile iron	recycled Steel (iron), carbon, chromium, Manganese, Micket, Silicon	N/A	N/A	N/A	I11-E16	N	Y	N/A	N	Y	N	N
	2.1 Hub and Spigot, Cast Iron Soil pipe and fittings: A) Fitting	Tyler Union	Tyler, Texas	956	ductile iron fittings	100% scrap iron	N/A	N/A	N/A	I11-E16	N	Y	N/A	N	Y	N	N		
	2.1 Hub and Spigot, Cast Iron Soil pipe and fittings: B) Gaskets	Griffin Pipe Products, CO, INC	Lisle, IL	1185	Styrene Butadiene Rubber Gasket- SBR	Styrene Butadiene	N/A	N/A	N/A	N	N	Y	N/A	N	Y	N	N		
	2.1 Hub and Spigot, Cast Iron Soil pipe and fittings: Ceramic Epoxy Coating for lining ductile iron pipe	Sika Corporation	Marion, OH	1011	Sikagard 62	Epoxy Resin, Aromatic Hydrocarbon, Silica Flour, Calcium Carbonate, Amine Hardeners, Others	N/A	N/A	N/A	N	N	Y	N/A	N	N	Y	Y		
	2.1 Hub and Spigot, Cast Iron Soil pipe and fittings: Ceramic Epoxy Coating for lining ductile iron pipe	Induron	Birmingham, AL	550	Protecto 401 Ceramic Epoxy	Proprietary	N/A	N/A	N/A	N	N	Y	N/A	N	N	N	Y		
	2.2 HDPE Fusion Pipe & Fittings (including Cleanout)	Flying W Plastics	Glenville, WV	565	HDPE pipe	High Density Polyethylene+ Carbon Black	N/A	N/A	N/A	N	N	Y	N/A	N	Y	N	N		
	2.7 Manholes	CP&P (Concrete Pipe& Precast, LLC)	Ashland, VA	166	Sanitary Sewer Manhole	cement, fly ash, aggregates, reinforcing steel, water	N/A	N/A	N/A	I11-E16	N	Y	N/A	N	Y	N	N		
	2.7 Underground Concrete	CP&P (Concrete Pipe& Precast, LLC)	Harrisonburg, VA	308	Leachate Tank	cement, fly ash, aggregates, reinforcing steel, water	N/A	N/A	N/A	I11-E16	N	Y	N/A	N	Y	N	N		
	2.7 Underground Concrete	CP&P (Concrete Pipe& Precast, LLC)	Harrisonburg, VA	308	Grey Water Tank	cement, fly ash, aggregates, reinforcing steel, water	N/A	N/A	N/A	I11-E16	N	Y	N/A	N	Y	N	N		
42		6 15000 km																	
44																			
44 40 00		5 5000 km																	
48		6 15000 km																	