

Final Combined Uniformat II / WBS 9/18/06, Revision 2

Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity	Definition
A SUBSTRUCTURE					SF	M2		Footprint area at grade
				This system includes all work below the lowest floor construction (usually slab-on-grade) and the enclosing horizontal and vertical elements required to form a basement, together with the necessary mass excavation and backfill.				
A10 FOUNDATIONS					SF	M2		Footprint area at grade
				Foundations includes the following Standard Foundations: wall and column foundations; foundation walls up to level of top of slab on grade; pile caps; foundation excavation, backfill, and compaction; footings and bases; perimeter insulation; perimeter drainage; anchor plates; and dewatering. Special Foundations include pile foundations, caissons, underpinning, dewatering, raft foundations, and pressure injected grouting. Slab on grade includes standard slab on grade, structural slab on grade, inclined slab on grade, trenches, pits and bases, and foundation drainage.				
			A1010	STANDARD FOUNDATIONS	SF	M2		Footprint area at grade
				Continuous footings, spread footings, grade beams, foundation walls, pile caps, and column piers.				
			A101001	WALL FOUNDATIONS	LF	M		Length of footings and/or wall foundations
				Continuous Footings - Assemblies include excavation, hand-shaped bottom, compacted backfill, formwork and keyway, reinforcing steel, concrete and screed finish.				
				Foundation Walls - Include work items associated with CIP foundation walls, grade beams, or CMU walls. Assemblies include excavation, compacted backfill, perimeter insulation, perimeter drainage, formwork, reinforcing steel, concrete or CMU, and wall finish.				
			A101002	COLUMN FOUNDATIONS & PILE CAPS	EA	EA		Number of footings, pile caps and/or piers
				Spread Footings: Individual or part of continuous pier footings. Assemblies include excavation, backfill and compaction, formwork, reinforcing steel, and concrete and screed finish. If structural steel columns set directly on spread footings, anchor bolts are included in this assembly.				
				Pile Caps - Assemblies include excavation if required (normally due to installation of piles, the subgrade is at desired level for pile cap), hand-shaped bottom, compacted backfill, formwork, reinforcing steel, and concrete and screed finish. If structural steel columns set directly on spread footings, anchor bolts are included in this assembly.				
				Column Piers - Assemblies include formwork, reinforcing steel, concrete or CMU, finish, break ties and patch, and set anchor bolts.				
			A101003	DEWATERING	SF	M2		Dewatered area
				Dewatering is the removal of water from excavations. The two principle methods of dewatering are by pump or by a system involving the sinking of a series of well-points around the area and extracting the water by suction pump. Assemblies would include pumps or well points and all associated dewatering materials and equipment.				
			A101090	OTHER STANDARD FOUNDATIONS	XX	XX		
				Standard foundations not described by the assembly categories listed above.				
			A1020	SPECIAL FOUNDATIONS	SF	M2		Footprint area at grade
				All work associated with special foundations including piles, caissons, and any other special foundation situation.				
			A102001	PILE FOUNDATIONS	SF	M2		Footprint area at grade
				CIP concrete piles, precast concrete piles, steel pipe piles, steel H-piles, step-tapered steel piles, and treated wood piles. Applicable assemblies would include the material for piles, pile driving, and pile cut-offs if required.				
			A102002	CAISSONS	SF	M2		Footprint area at grade
				Drilled Caissons - Assemblies include drilled caissons, steel casings if required, reinforcing steel, bell bottom excavation, concrete, and loading and hauling of excavated material.				
			A102003	UNDERPINNING	LF	M		Length of underpinning
				Underpinning is the provision of permanent support for existing buildings by extending their foundations to a new, lower level containing the desired bearing stratum. Assemblies include excavation, backfill, and underpinning materials.				
			A102004	DEWATERING	SF	M2		Dewatered area
				Dewatering is the removal of water from excavations. The two principle methods of dewatering are by pump or by a system involving the sinking of a series of well-points around the area and extracting the water by suction pump. Assemblies would include pumps or well points and all associated dewatering materials and equipment.				
			A102005	RAFT FOUNDATIONS	SF	M2		Area of raft foundation
				Raft foundations or spread foundations consist of a solid slab of heavily reinforced concrete covering the entire building footprint area.				
			A102006	PRESSURE INJECTED GROUTING	SF	M2		Footprint area at grade
				Assemblies provide for injecting cement grout for foundation stabilization.				
			A102090	OTHER SPECIAL FOUNDATIONS	XX	XX		
				These could include cofferdams, soil compaction foundations, and other special foundations. Assemblies would include all material and labor necessary to perform the work for the special foundation condition.				
			A1030	SLAB ON GRADE	SF	M2		Footprint area at grade
				A slab poured on earth, whether on undisturbed or fill soil.				
			A103001	STANDARD SLAB ON GRADE	SF	M2		Area of slab
				Standard slab-on-grade is supported by compacted earth or gravel fill. The soil bearing capacity is sufficient to support the slab. Assemblies include fine grade, gravel fill, under-slab insulation, edge forms, termite treatment (interior slabs only), vapor barrier, reinforcing, expansion joints, control joints, and finish and curing. Assemblies are based on thickness of slab.				
			A103002	STRUCTURAL SLAB ON GRADE	SF	M2		Area of slab
				A structural slab-on-grade is not supported by compacted earth or gravel fill. The soil bearing capacity is insufficient to support the slab. A structural slab is generally a minimum of eight inches thick and will be reinforced with reinforcing bars rather than welded wire fabric. Assemblies include fine grade, gravel fill, under-slab insulation, edge forms, termite treatment, (interior slabs only), vapor barrier, reinforcing, expansion joints, control joints, and finish and curing. Assemblies are based on thickness of slab.				
			A103003	TRENCHES	LF	M		Length of trench
				Cast-in-place trenches. Assemblies include excavation, hand-shaped bottoms, compacted backfill, formwork, reinforcing steel, concrete, and concrete finish. Examples include trench drains and dust trenches.				
			A103004	PITS AND BASES	EA	EA		Number of pits and bases

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
				Cast-in-place pits and bases. Assemblies include excavation, hand-shaped bottoms, compacted backfill, formwork, reinforcing steel, concrete, and concrete finish. Examples include elevator pits, dock leveler pits, oil change pits, and bases for equipment.			
			A103005	FOUNDATION DRAINAGE Foundation drainage directly associated with draining the foundation. This category does not include storm drainage piping for site. It would include drain pipe or drain tile at foundation or basement for specific purposes of draining foundation or basement. Assemblies would include excavation, hand-shaped bottoms, gravel, compacted backfill, and drain pipe, including accessories.	LF	M	Length of foundation
			A103090	OTHER LOWEST FLOOR CONSTRUCTION Lowest floor construction not described by the assembly categories listed above.	XX	XX	
			A20 BASEMENT CONSTRUCTION		CY	M3	Volume of excavation
				Work includes basement excavation, and basement walls.			
			A2010	BASEMENT EXCAVATION Excavation work associated with constructing a basement.	CY	M3	Volume of excavation
			A201001	EXCAVATION FOR BASEMENTS All excavation, stockpiling, and hauling associated with basement excavations are included in this assembly.	CY	M3	Volume of excavation
			A201002	STRUCTURE BACKFILL & COMPACTION All backfill including hauling in of suitable soils and all necessary compaction is included in this assembly.	CY	M3	Volume of backfill
			A201003	SHORING This type of shoring is to resist horizontal pressure and not intended to carry vertical loads. Assemblies would include sheet piling or other material and labor used to hold back earth around the perimeter of an excavation.	SF	M2	Shoring contact area
			A201090	OTHER BASEMENT EXCAVATION Basement excavation not described by the assembly categories listed above.	XX	XX	
			A2020	BASEMENT WALLS	SF	M2	Area of wall
				Assembly includes basement perimeter walls that are below grade and below the ground floor level of the building; this also includes elevator pits and other pits.			
			A202001	BASEMENT WALL CONSTRUCTION This includes work items associated with CIP foundation walls or CMU walls and penetrations. Assemblies include formwork, reinforcing steel, concrete or CMU, and wall finish and curing.	SF	M2	Area of wall
			A202002	MOISTURE PROTECTION This assembly would be based on the type and square footage of waterproofing used on the foundation wall.	SF	M2	Area of wall moisture protection
			A202003	BASEMENT WALL INSULATION This assembly would be based on the type and square footage of insulation used on the foundation wall.	SF	M2	Area of wall insulation
			A202090	OTHER BASEMENT WALLS Basement walls not described by the assembly categories listed above.	XX	XX	
			B SHELL		SF	M2	Area of supported floors
				This system includes all structural slabs, and decks and supports within basements and above grade. Note that the structural work will include both horizontal items (slabs, decks, etc.) and vertical structural components (columns and interior structural walls). Exterior load bearing walls are not included in this system but in System B2010, Exterior Walls.			
			B10 SUPERSTRUCTURE		SF	M2	Area of supported floors
				Work includes floor construction and roof construction.			
			B1010	FLOOR CONSTRUCTION This construction can be wood, concrete, CMU, steel frame, etc.	SF	M2	Area of supported floors
			B101001	STRUCTURAL FRAME The structural frame could consist of structural steel including columns, beams, joists, and all associated items. It could be a concrete frame utilizing concrete or masonry columns and concrete girders and beams. The structural frame could be wood columns with wood beams or wood trusses. The structural frame could be a combination of the above. For example, concrete or masonry columns with structural steel beams and joists. All associated work items should be included in each assembly. Separate assemblies would be used for different types of construction. The unit of measure at the assembly level is the square footage of the supported area. Decks and slabs are not included in this assembly.	SF	M2	Area of supported floors
			B101002	STRUCTURAL INTERIOR WALLS Assemblies would be CIP or CMU walls or other structural interior walls. The assemblies would include the labor and material required to perform the construction tasks associated with this type of wall.	SF	M2	Area of wall
			B101003	FLOOR DECKS AND SLABS Slabs above grade should be broken into assemblies according to their particular type of construction (i.e., flat slab, pan slab, precast or pre-stressed slab, four-way slab, slabs on metal or wood decking with concrete fill, etc.). All associated work items should be included in each assembly, such as expansion and contraction joints.	SF	M2	Area of supported floors
			B101004	INCLINED AND STEPPED FLOORS This assembly should be broken down according to their particular type of construction (i.e., flat slab, pan slab, precast or pre-stressed slab, four-way slab, slabs on metal or wood decking with concrete fill, etc.). All associated work items should be included in each assembly, such as expansion and contraction joints.	SF	M2	Area of inclined & stepped floors
			B101005	BALCONY CONSTRUCTION Balconies above grade should be broken into assemblies according to their particular type of construction. All associated items including handrails should be included in the assembly.	SF	M2	Area of supported balconies
			B101006	RAMPS Ramps above grade should be broken into assemblies according to their type of construction. All associated items including handrails should be included in the assembly.	SF	M2	Area of supported ramps

Final Combined Uniformat II / WBS 9/18/06, Revision 2

Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
			B101007	FLOOR RACEWAY SYSTEMS	SF	M2	Gross floor area
				Under floor or in-slab conduit including conduit and all associated devices.			
			B101090	OTHER FLOOR CONSTRUCTION	XX	XX	
				Any type of special floor construction not included above would fall in this category, such as catwalks, space frames, etc. All associated work items would be included in the assembly.			
			B1020	ROOF CONSTRUCTION	SF	M2	Area of supported roof
				This construction is similar to floor construction except that it applies to the framework supporting the roof and roof decks. (See also System B30 Roofing.)			
			B102001	STRUCTURAL FRAME	SF	M2	Area of supported roof
				The structural frame could consist of structural steel including columns, beams, joists, and all associated items. It could be a concrete frame utilizing concrete or masonry columns and concrete girders and beams. The structural frame could be wood columns with wood beams or wood trusses. The structural frame could be a combination of the above. For example, concrete or masonry columns with structural steel beams and joists. All associated work items should be included in each assembly. Separate assemblies would be used for different types of construction. The unit of measure at the assembly level is the square footage of the supported area. Decks and slabs are not included in this assembly.			
			B102002	STRUCTURAL INTERIOR WALLS	SF	M2	Area of walls
				Assemblies would be CIP or CMU walls or other structural interior walls. The assemblies would include the labor and material required to perform the construction tasks associated with this type of wall.			
			B102003	ROOF DECKS AND SLABS	SF	M2	Area of supported roof
				Roof decks and slabs should be broken into assemblies according to their particular type of construction (i.e., flat slab, pan slab, precast or pre-stressed slab, four-way slab, slabs on metal or wood decking with concrete fill, etc.). All associated work items should be included in each assembly.			
			B102004	CANOPIES	SF	M2	Area of supported canopies
				Canopies should be broken into assemblies according to their particular type of construction (i.e., flat slab, pan slab, precast or pre-stressed slab, four-way slab, slabs on metal or wood decking with concrete fill, etc.). All associated work items should be included in each assembly.			
			B102090	OTHER ROOF CONSTRUCTION	SF	M2	Area of supported roof
				Any type of special roof construction not included above would fall into this category. All associated work items would be included in this assembly.			
			B20	EXTERIOR ENCLOSURE	SF	M2	Area of exterior walls
				This system consists of the exterior facing of the facility, which includes all vertical and horizontal exterior closure such as exterior walls, exterior windows, and exterior doors. This system excludes roofing (See System B30, Roof). Load bearing exterior walls will be included here, and not in System B10, Superstructure. Structural frame elements at exterior such as columns, beams, spandrels, etc., would be included in Superstructure with only the applied exterior finishes (i.e., paint, stucco, etc.) being included here. Finishes to the inside face of walls which are not an integral part of the wall construction will be included in System C30, Interior Finishes.			
			B2010	EXTERIOR WALLS	SF	M2	Area of exterior walls
				All materials associated with the following construction: exterior load-bearing walls, insulation and vapor barrier, parapets, exterior louvers and screens, sun control devices (exterior), balcony walls and handrails, exterior soffits, screen walls, and exterior coatings.			
			B201001	EXTERIOR CLOSURE	SF	M2	Area of exterior walls
				Assemblies would include material contained in exterior closure wall, such as masonry with brick veneer. Materials used for interior finishes on exterior walls are not included in this assembly. For example, if the interior side of this masonry wall is sheetrock applied on metal furring strips, the masonry wall is included in this assembly, but the furring strips and sheetrock are categorized as C3010 WALL FINISHES.			
			B201002	EXTERIOR WALL BACKUP CONSTRUCTION	SF	M2	Area of backup walls
				Assemblies used to support structure for the exterior skin and/or provide load-bearing walls for the facility. Materials used for interior finishes on exterior walls are not included in this assembly. For example, if the interior side of this masonry wall is sheetrock applied on metal furring strips, the masonry wall is included in this assembly, but the furring strips and sheetrock are categorized as C3010 WALL FINISHES.			
			B201003	INSULATION & VAPOR RETARDER	SF	M2	Area of insulation
				Assemblies would include all types of insulation associated with the exterior wall. Rigid, batt and poured insulation should be separated into different assemblies.			
			B201004	PARAPETS	LF	M	Length of parapets
				Assemblies include materials used in association with parapets. Parapets are long walls or railings usually along the edge of a roof or balcony.			
			B201005	EXTERIOR LOUVERS & SCREENS	SF	M2	Area of louvers and screens
				Assemblies include louvers and screens which are located in exterior walls. The unit of measure at the assembly level is each.			
			B201006	BALCONY WALLS & HANDRAILS	LF	M	Length of walls and handrails
				Assemblies would include materials associated with balcony walls and handrails. These rails are usually guardrails and not associated with stairs.			
			B201007	EXTERIOR SOFFITS	SF	M2	Area of soffits
				Assemblies would include all associated materials which make up the soffit and supports for the soffit. Typical materials would include wood, aluminum, exterior grade gypboard, stucco, etc.			
			B201008	FLASHING	SF	M2	Area of flashings
				Assemblies include all flashings associated with the exterior walls except for thru-wall flashing.			
			B201009	EXTERIOR PAINTING AND SPECIAL COATINGS	SF	M2	Area of exterior coatings
				Assemblies include paint, stucco, etc. The unit of measure at the assembly level is area of exterior coatings.			
			B201010	EXTERIOR JOINT SEALANT	LF	M	Length of sealants
				Exterior application of joint sealants to seal joints and prepare for finish material installation.			
			B201011	SUN CONTROL DEVICES	SF	M2	Area of sun control devices
				Assemblies include awnings, shades, and solar panels attached to the exterior of the building. A separate assembly should be used for each type of sun control device.			
			B201012	SCREEN WALLS	LF	M	Length of screen wall
				Exterior screen walls used for security purposes immediately adjacent to the building such as screen walls at a loading dock. Assemblies would include materials associated with all types of walls. This can also include visual barriers on the roof to screen equipment. Note that perimeter fencing that is typically more than five feet from the building's exterior is included in sitework rather than in this system.			
			B201090	OTHER EXTERIOR WALLS	XX	XX	
				Exterior walls not described by the assembly categories listed above.			

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
		B2020	EXTERIOR WINDOWS		SF	M2	Area of windows
				All windows located in exterior walls or exterior skin.			
			B202001	WINDOWS	SF	M2	Area of windows
				Fixed or operable windows located in exterior walls or exterior skin. Assemblies would include frames, glazing, caulking, finishes and other associated work.			

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
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			B202002	STOREFRONTS Fixed storefronts including associated doors in exterior walls or exterior skin. Assemblies would include integral storefront doors, frames, glazing, caulking, finishes, and other associated work.	SF	M2	Area of storefronts
			B202003	CURTAIN WALLS This applies to glass curtain walls and spandrel glass in exterior walls or exterior skin. Assemblies would include integral curtainwall doors, frames, glazing, caulking, finishes, and other associated work.	SF	M2	Area of curtain walls
			B202004	EXTERIOR GLAZING	SF	M2	Area of Glazing
			B202090	OTHER EXTERIOR WINDOWS Exterior windows not described by the assembly categories listed above.	XX	XX	
		B2030	EXTERIOR DOORS All doors located in exterior walls or exterior skin.		EA	EA	Number of doors
			B203001	SOLID DOORS Assemblies include all exterior solid doors, hollow metal or wood with frames. Solid doors may include glazing lites in doors. Door hardware is located in B203008 EXTERIOR DOOR HARDWARE.	EA	EA	Number of doors
			B203002	GLAZED DOORS and curtainwalls. These doors can be made of storefront materials but are not part of a curtainwall or storefront. Door hardware is located in B203008 EXTERIOR DOOR HARDWARE.	EA	EA	Number of doors
			B203003	REVOLVING DOORS Assemblies include all revolving doors at exterior of the facility.	EA	EA	Number of doors
			B203004	OVERHEAD AND ROLL-UP DOORS Overhead and roll-up doors installed in exterior walls or exterior skin. Assemblies include frames, hardware, hoisting devices, and finish and other associated work. The unit of measure at the assembly level is each door.	SF	M2	Area of doors
			B203005	HANGAR DOORS Large aircraft doors used on medium and high bay hangars. Assemblies would include frames, hardware, hoisting devices, and finish and other associated work.	SF	M2	Area of doors
			B203006	BLAST RESISTANT DOORS Special exterior doors used for blast resistance. Assemblies would include frames, hardware, hoisting devices, and finish and other associated work.	SF	M2	Area of doors
			B203007	GATES Any special gate type used in the exterior wall or exterior skin of the building. Assemblies would include frames, hardware, hoisting devices, and finish and other associated work. The unit of measure at the assembly level is each gate.	SF	M2	Area of doors
			B203008	EXTERIOR DOOR HARDWARE Exterior door hardware includes items such as closers, hinges, locksets, panic hardware, etc.	EA	EA	Number of doors
			B203090	OTHER EXTERIOR SPECIALTY DOORS Any special type door used in the exterior wall or exterior skin of the building. Assemblies would include frames, hardware, hoisting devices, and finish and other associated work. The unit measure at the assembly level is each door, or area of special doors, i.e., hangar doors.	XX	XX	
			B203091	OTHER EXTERIOR PERSONNEL DOORS Exterior personnel doors not described by the assembly categories listed above.	XX	XX	
		B30	ROOFING This System includes all waterproof roof coverings and insulation, expansion joints, together with skylights, hatches, ventilators, and all required trim. In addition to roof coverings, the system includes all waterproof membranes and traffic toppings over below grade enclosed areas, balconies, and the like.		SF	M2	Gross area of roof
		B3010	ROOF COVERINGS This System includes all waterproof roof coverings and insulation, expansion joints, together with skylights, hatches, ventilators, and all required trim. In addition to roof coverings, the system includes all waterproof membranes and traffic toppings over below grade enclosed areas, balconies, and the like.		SF	M2	Gross area of roof
			B301001	STEEP SLOPE ROOF SYSTEMS Assemblies include roof coverings such as shingle, wood shake, structural standing seam, metal roofing, etc.	SF	M2	Area of roof covering
			B301002	LOW SLOPE ROOF SYSTEMS Assemblies include roof coverings such as built-up, elastomeric, modified bitumen, etc.. Also, walkways and work areas (used to gain access to rooftop equipment) will be included here.	SF	M2	Area of topping or membrane
			B301003	ROOF INSULATION & FILL Assemblies include all types of insulation associated with the roof area.	SF	M2	Area of insulation
			B301004	FLASHINGS & TRIM Assemblies include all flashings associated with the roof, i.e., eave flashing, gable flashing, etc.	SF	M2	Area of flashings
			B301005	GUTTERS & DOWNSPOUTS Assemblies include all gutters, downspouts, and associated work including splash blocks.	LF	M	Length of gutters and downspouts
			B301006	ROOF OPENINGS AND SUPPORTS All roof penetrations including roof hatches, sky lights, area glazing, gravity roof ventilators, smoke vents, etc.	SF	M2	Area of openings

Final Combined Uniformat II / WBS 9/18/06, Revision 2

Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
			B301090	OTHER ROOFING Roofing not described by the assembly categories listed above.	XX	XX	
C INTERIORS					SF	M2	Gross floor area
				Construction which takes place inside the exterior wall or exterior closure. The system does not include interior structural walls, which are included in B1010 FLOOR CONSTRUCTION and B1020 ROOF CONSTRUCTION.			
			C10 INTERIOR CONSTRUCTION		SF	M2	Gross floor area
				This assembly includes partitions, interior doors, and specialties.			
			C1010 PARTITIONS		SF	M2	Area of partitions
				Includes all interior partitions.			
			C101001 FIXED PARTITIONS		SF	M2	Area of fixed partition walls
				Interior fixed partitions include metal or wood studs, sheetrock, masonry, and concrete walls.			
			C101002 DEMOUNTABLE PARTITIONS		SF	M2	Area of demountable partition walls
				Assemblies would include all demountable partitions and associated work including tracks and anchoring systems.			
			C101003 RETRACTABLE PARTITIONS		SF	M2	Area of retractable partition walls
				Assemblies would include all retractable or folding partitions and associated work including tracks and anchoring systems.			
			C101004 INTERIOR GUARDRAILS & SCREENS		LF	M	Length of balustrades and screens
				Assemblies include balustrades (balcony handrails and the row screen of posts that support them) and screens and associated work including tracks and anchoring systems. These balustrades/guardrails are related to interior balconies and are not associated with stairs.			
			C101005 INTERIOR WINDOWS		SF	M2	Area of windows
				Fixed or operable windows. Assemblies would include frames, glazing, caulking and other associated work.			
			C101006 GLAZED PARTITIONS & STOREFRONTS		SF	M2	Area of partitions and storefronts
				Fixed interior glazed partitions including interior storefronts with doors. Assemblies include frames, glazing, caulking, and other associated work.			
			C101007 INTERIOR GLAZING		SF	M2	Area of interior glazing
			C101008 INTERIOR JOINT SEALANT		LF	M	Length of sealants
				Interior application of sealants to seal joints and prepare for finish material installation. The application shall include partitions, doors and fitting.			
			C101090 OTHER PARTITIONS		XX	XX	
				Interior partitions not described by the assembly categories listed above.			
			C1020 INTERIOR DOORS		LEF	LEF	Number of leaves
				All interior doors.			
			C102001 STANDARD INTERIOR DOORS		LEF	LEF	Number of leaves
				Assemblies include all standard interior wood or hollow metal doors with frames, finish, etc.. Standard interior door may include vision lites. Interior door hardware is located in C102007 INTERIOR DOOR HARDWARE.			
			C102002 GLAZED INTERIOR DOORS		LEF	LEF	Number of leaves
				Assemblies include all glazed interior doors with glass, frames, finish, including storefront, etc.. Interior door hardware is located in C102007 INTERIOR DOOR HARDWARE.			
			C102003 FIRE DOORS		LEF	LEF	Number of leaves
				Assemblies include all interior fire doors, including all necessary frames, and sensing devices integral with the door. Interior door hardware is located in C102007 INTERIOR DOOR HARDWARE.			
			C102004 SLIDING & FOLDING DOORS		SF	M2	Area of sliding or folding door
				Assemblies include all sliding and folding doors with frames, hardware, locking devices, tracks, and supporting systems. The unit of measure at the assembly level is each.			
			C102005 INTERIOR OVERHEAD DOORS		SF	M2	Area of doors
				Overhead doors installed in the interior of a facility. Assemblies include frames, hardware, hoisting devices, and finish and other associated work. The unit of measure at the assembly level is each door.			
			C102006 INTERIOR GATES		SF	M2	Area of gates
				Any special type gate installed in the interior of a facility. Assemblies include frames, hardware, hoisting devices, and finish and other associated work. The unit measure at the assembly level is each gate.			
			C102007 INTERIOR DOOR HARDWARE		EA	EA	Number of doors
				Interior door hardware includes items such as closers, hinges, locksets, panic hardware, etc.			
			C102090 OTHER INTERIOR SPECIALTY DOORS		XX	XX	
				Any special type door installed in the interior of a facility. Assemblies include frames, hardware, hoisting devices, and finish and other associated work. The unit measure at the assembly level is each gate.			
			C102091 OTHER INTERIOR PERSONNEL DOORS		XX	XX	
				Interior personnel doors not described by the assembly categories listed above.			
			C1030 SPECIALTIES		SF	M2	Gross floor area
				Most commonly used specialty items.			
			C103001 COMPARTMENTS, CUBICLES & TOILET PARTITIONS		EA	EA	Number of compartments, cubicles, or toilet partitions

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
				Assemblies include individual compartments, cubicles, toilet partitions, and urinal screens.			
			C103002	TOILET & BATH ACCESSORIES	EA	EA	Number of accessories
				Toilet and bath accessories. For example, soap dispensers, toilet paper holder, towel dispensers, grab bars, bathroom mirrors, etc.			
			C103003	MARKER BOARDS & TACK BOARDS	EA	EA	Each Board
				Assemblies include all marker boards, tackboards, and fastening devices. The unit of measure at the assembly level is each.			
			C103004	IDENTIFYING DEVICES	EA	EA	Number of identifying devices
				Assemblies include all signs, plaques, traffic markers, etc.			
			C103005	LOCKERS	EA	EA	Number of lockers
				Assemblies include all types of lockers, either wood or metal, single or double tier. Special bases used for lockers would be included in this assembly.			
			C103006	SHELVING	LF	M	Length of shelving
				Assemblies include all types of shelving with brackets and all supporting materials and finish, if required.			
			C103007	FIRE EXTINGUISHER CABINETS	EA	EA	Number of fire extinguisher cabinets
				This assembly would include all types and sizes of fire extinguisher cabinets. Fire extinguishers are not included in this assembly; they are included in D40.			
			C103008	COUNTERS	LF	M	Length of counters
				Assemblies include all counters and countertops with all necessary brackets and supporting materials and finish, if required.			
			C103009	CABINETS	LF	M	Length of cabinets
				This assembly includes all cabinetry and millwork items with associated accessories and anchoring devices. Cabinet finishes are included in this assembly. Metal cabinets and special use cabinetry (medical, dental, libraries, etc.) are included in C103010 CASEWORK.			
			C103010	CASEWORK			
				Assemblies would include built-in premanufactured cabinetry for specialized functions such as labs, libraries, medical and dental facilities.			
			C103011	CLOSETS	LF	M	Length of closets
				This assembly includes all built-in closets with all associated work and finishes. These closets are millwork items or prefabricated coat closets for schools and dormitories.			
			C103012	FIRESTOPPING PENETRATIONS	EA	EA	Each Penetration
				Assembly includes sleeve, caulking, and flashing.			
			C103013	SPRAYED FIRE-RESISTIVE MATERIALS	SF	M2	Area of coverage
				Sprayed Fire-Resistive Materials includes materials that are applied primarily to a building's framework (columns, beams, bracing, metal decking) to prevent structural failure.			
			C103014	ENTRANCE FLOOR GRILLES AND MATS	SF	M2	Area of grilles/mats
				Assemblies include floor grilles and mats installed in a fixed arrangement at a building entrance.			
			C103015	ORNAMENTAL METALWORK	EA	EA	Number of metalwork items
				Building components made from ornamental metals. Ornamental stair handrails are included in B1010 EXTERIOR STAIRS and C20 STAIRS.			
			C103090	OTHER INTERIOR SPECIALTIES	EA	EA	Number of specialty items
				Interior specialties not described by the assembly categories listed above.			
			C20 STAIRS		FLT	FLT	Number of flights
				Work includes all stair construction.			
			C2010	STAIR CONSTRUCTION	FLT	FLT	Number of flights
				All work items located within the building footprint. A flight of stairs is considered to be all the treads and risers with landings required to travel from one floor to the next.			
			C201001	INTERIOR AND EXTERIOR STAIRS	FLT	FLT	Number of flights
				All stair work items associated with non-fire escape stairs. The stairs can be either interior stairs or stairs exposed to the weather. Exterior stairs are exposed to the outside and do not typically require HVAC. A flight of stairs is considered to be all the treads and risers with landings required to travel from one floor to the next.			
			C201002	FIRE ESCAPE STAIRS	FLT	FLT	Number of flights
				Assemblies include exterior stairs which are used for emergency egress. These stairs are exposed to the weather. Handrails, finishes and associated work items are included in this assembly.			
			C201090	STAIR HANDRAILS, GUARDRAILS AND ACCESSORIES	XX	XX	
				Stair handrails, guardrails, and cast-in-place nosings for interior and exterior stairs.			
			C30 INTERIOR FINISHES		SF	M2	Area of finishing
				Includes wall finishes, floor finishes, and ceiling finishes.			
			C3010	WALL FINISHES	SF	M2	Area of finished walls
				Finishes which are applied to interior wall surfaces. For coatings, refer to C3040.			
			C301001	CONCRETE WALL FINISHES	SF	M2	Area of finished walls
				This assembly would include a concrete finish applied directly to an interior wall surface. This assembly does not include items that directly apply to wall finishes covered elsewhere in this subsystem.			
			C301002	PLASTER WALL FINISHES	SF	M2	Area of finished walls
				This assembly includes plaster or stucco applied directly to an interior wall surface. Lath and associated work would be included in this assembly. This assembly does not include items that directly apply to wall finishes covered elsewhere in this subsystem.			
			C301003	GYPSON WALLBOARD FINISHES	SF	M2	Area of finished walls
				This assembly includes gypsum wallboard applied directly to an interior wall surface. Furring strips or channels are included in this assembly. This assembly also includes taping, sanding, finishing, and sheetrock accessories. This assembly does not include items that directly apply to wall finishes covered elsewhere in this subsystem.			

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
			C301004	TILE & TERRAZZO WALL FINISHES This assembly includes tile and terrazzo applied directly to an interior wall surface. Each type of tile would be a separate assembly.	SF	M2	Area of finished walls
			C301005	WALL COVERINGS This assembly includes wall coverings and protective strips applied directly to an interior wall surface.	SF	M2	Area of wall coverings
			C301006	ACOUSTICAL PANELS ADHERED TO WALLS This assembly includes acoustical tiles and panels with associated work applied directly to an interior wall surface.	SF	M2	Area of acoustical tiles and panels
			C301090	OTHER WALL FINISHES Assemblies include finishes to wall types not included above. These include, but are not limited to, different types of shielding and the work and materials associated with each.	XX	XX	
		C3020	FLOOR FINISHES	All flooring and floor finishes applied to interior floors. For coatings refer to C3040.	SF	M2	Area of finished floors
			C302001	TILE FLOOR FINISHES Assemblies include ceramic, quarry, and other non-resilient tile floors.	SF	M2	Area of tile floors
			C302002	TERRAZZO FLOOR FINISHES Assemblies include terrazzo floors.	SF	M2	Area of terrazzo floors
			C302003	WOOD FLOORING Assemblies include wood floors.	SF	M2	Area of wood floors
			C302004	RESILIENT FLOOR FINISHES Assemblies include resilient floors.	SF	M2	Area of resilient floors
			C302005	CARPETING	SF	M2	Area of carpeting
			C302006	MASONRY & STONE FLOORING Assemblies include masonry, concrete pavers, and stone flooring.	SF	M2	Area of masonry or stone flooring
			C302007	WALL BASE FINISHES Assemblies include wall base, consisting of various materials such as vinyl, ceramic tile, etc.	LF	M	Length of wall base
			C302008	STAIR FINISHES Includes field-applied finish materials (other than paint) to surfaces of stairs including treads, risers and landings.	SF	M2	Area of coverage
			C302009	FLOOR TOPPINGS AND TRAFFIC MEMBRANES Assemblies include floor toppings and membrane systems.	SF	M2	Area of coverage
			C302010	HARDENERS AND SEALERS Assemblies include floor hardeners and sealers, typically applied on concrete floors.	SF	M2	Area of coverage
			C302011	RAISED ACCESS FLOORING Assemblies include all types of raised flooring, pedestal access floors and other types of access flooring.	SF	M2	Area of special flooring
			C302090	OTHER FLOORING & FLOOR FINISHES Assemblies include floor finishes not described by the assembly categories listed above, such as conductive, armored, etc..	XX	XX	
		C3030	CEILING FINISHES	All ceilings and ceiling finishes applied to interiors. For coatings, refer to C3040.	SF	M2	Area of ceilings
			C303001	ACOUSTICAL CEILING TILES & PANELS Assemblies include acoustical ceiling tiles and panels. The suspension system, if required, is in Assembly Category C303005. This assembly does not include items that directly apply to ceiling finishes covered elsewhere in this subsystem.	SF	M2	Area of acoustical ceilings
			C303002	GYPSUM WALLBOARD CEILING FINISHES Assemblies include gypsum wallboard applied to interior ceilings. Furring strips or channels are included in this assembly if they are applied directly to the ceiling surface. If the gypsum board is applied to a suspended ceiling system, the suspended system would be in Assembly Category C303005. This assembly does not include items that directly apply to ceiling finishes covered elsewhere in this subsystem.	SF	M2	Area of gypsum ceilings
			C303003	PLASTER CEILING FINISHES Assemblies include plaster or stucco finishes applied to interior ceilings. Lath and associated work would apply to this assembly. This assembly does not include items that directly apply to ceiling finishes covered elsewhere in this subsystem.	SF	M2	Area of plaster ceiling finish

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
			C303004	WOOD CEILINGS	SF	M2	Area of wood ceilings
				Assemblies include wood ceilings. Different types of wood ceilings should be separated into different assemblies. If the wood ceiling is applied to a suspended ceiling system, the suspended system would be in Assembly Category C303005. This assembly does not include items that directly apply to ceiling finishes covered elsewhere in this subsystem.			
			C303005	SUSPENSIONS SYSTEMS	SF	M2	Area of suspension system
				This assembly includes any suspension system which is suspended or hung from the structure for the purpose of fastening a ceiling.			
			C303006	METAL STRIP CEILINGS	SF	M2	Area of metal ceiling
				Assemblies include all metal strip materials applied to ceilings.			
			C303090	OTHER CEILING & CEILING FINISHES	XX	XX	
				Special ceilings and ceiling finishes not described by the assembly categories listed above.			
			C3040	INTERIOR COATINGS AND SPECIAL FINISHES	SF	M2	Area of interior coatings
				This assembly includes surface preparation and application of coatings to interior surfaces.			
			C304001	GENERAL REQUIREMENTS	SF	M2	Area of coatings and finishes
			C304002	CONCRETE FINISHES	SF	M2	Area of concrete finishes
			C304003	CONCRETE MASONRY FINISHES	SF	M2	Area of concrete masonry finishes
			C304004	METAL FINISHES	SF	M2	Area of metal finishes
			C304005	INTERIOR WOOD FINISHES	SF	M2	Area of wood finishes
			C304006	GYPSUM WALLBOARD FINISHES	SF	M2	Area of gypsum wallboard coatings
			C304007	SPECIAL COATINGS ON WALLS	SF	M2	Area of special wall coatings
			D SERVICES		EA	EA	
				Includes all methods of conveying, plumbing, HVAC, fire protection, and electrical.			
			D10 CONVEYING		STY	STY	Number of stories
				This system includes elevators, escalators, pneumatic tube systems, conveyors, chutes, etc. Foundations for these systems are included in System A, Substructure.			
			D1010	ELEVATORS AND LIFTS	STP	STP	Number of stops
				Includes passenger elevators and freight elevators.			
			D101001	GENERAL CONSTRUCTION ITEMS	EA	EA	Number of items
				Includes construction work, other than conveying system work, which must be performed in conjunction with this type of work to complete the system.			
			D101002	PASSENGER ELEVATORS	STP	STP	Number of stops
				The unit measure at the assembly level is each stop.			
			D101003	FREIGHT ELEVATORS	STP	STP	Number of stops
				The unit measure at the assembly level is each stop.			
			D101004	WHEELCHAIR LIFT	EA	EA	Number of lifts
				Premanufactured lift to gain wheelchair access.			
			D101005	DUMBWAITERS	STP	STP	Number of stops
				The unit measure of the assembly is each stop.			
			D101090	OTHER VERTICAL TRANSPORTATION EQUIPMENT	XX	XX	
				This includes elevators not described by the assembly categories listed above, such as people lifts.			
			D1020	WEIGHT HANDLING EQUIPMENT	EA	EA	Number of items
			D102001	BASIC REQUIREMENTS OF CRANES AND MONORAILS	EA	EA	Number of items
			D102002	OVERHEAD CRANES	EA	EA	Number of items
			D102003	MONORAILS	EA	EA	Number of items
			D1030	ESCALATORS AND MOVING WALKS	LF	M	Length of stairs or walks
			D103001	ESCALATORS	LF	M	Length of stairs
			D103002	MOVING WALKS	LF	M	Length of walks
			D103090	OTHER MOVING STAIRS & WALKS	XX	XX	
				Moving stairs or walks not described by the assembly categories listed above.			
			D1090	OTHER CONVEYING SYSTEMS	EA	EA	Number of systems
				Other conveying systems includes pneumatic tube systems, conveyor belts, chutes, and transportation systems.			
			D109001	PNEUMATIC TUBE SYSTEMS	EA	EA	Number of systems
				Number of material handling systems			
			D109002	CONVEYORS	EA	EA	Number of material handling systems
			D109003	LINEN, TRASH, AND MAIL CHUTES	LF	M	Length of chute
			D109004	TURNTABLES	EA	EA	Number of turntables
			D109005	OPERABLE SCAFFOLDING	SF	M2	Area of scaffolding

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
			D109006	TRANSPORTATION SYSTEMS	EA	EA	Number of systems
				This assembly includes baggage handling and aircraft loading systems.	SF	M2	Area of scaffolding
			D109090	OTHER MATERIAL HANDLING SYSTEMS	XX	XX	
				Material or handling systems not described by the assembly categories listed above.			
			D20 PLUMBING		EA	EA	Number of fixtures
				The plumbing system's primary function is the transfer of liquids and gases. This system includes all water supply and waste items within the building.			
			D2010	PLUMBING FIXTURES	EA	EA	Number of fixtures
				All terminal devices on the domestic plumbing system which have water supplied to the fixture. Hot water heaters, hose bibbs, and special equipment are not counted as a fixture.			
			D201001	WATERCLOSETS	EA	EA	Number of fixtures
			D201002	URINALS	EA	EA	Number of fixtures
			D201003	LAVATORIES	EA	EA	Number of fixtures
			D201004	SINKS	EA	EA	Number of fixtures
			D201005	SHOWERS/TUBS	EA	EA	Number of fixtures
			D201006	DRINKING FOUNTAINS & COOLERS	EA	EA	Number of fixtures
			D201007	BIDETS	EA	EA	Number of fixtures
			D201090	EMERGENCY FIXTURES	XX	XX	
				Emergency fixtures not described by the assembly categories listed above.			
			D2020	DOMESTIC WATER DISTRIBUTION	EA	EA	Number of fixtures
				This system provides for human health and comfort. The water supply needed is determined by the number of fixtures attached. Hot water heaters, hose bibbs, and special equipment are not counted as a fixture.			
			D202001	PIPES & FITTINGS	EA	EA	Number of fixtures
				Assemblies include all pipe, fittings, and associated work with regard to domestic water supply. The unit of measure at the assembly level is number of fixtures.			
			D202002	VALVES & HYDRANTS	EA	EA	Number of valves and hydrants
				Assemblies include all valves and hydrants. Hose bibbs are included in this assembly. The unit of measure at the assembly level is number of valves and hydrants.			
			D202003	DOMESTIC WATER EQUIPMENT	EA	EA	Number of fixtures
				This assembly includes equipment associated with the domestic water supply, including fittings, and specialties required for hook-up. Assemblies include hot water heaters, water treatment plant, i.e., water softeners, filters, distillers, etc.; pumps directly associated with domestic water supply; and tanks for the potable hot or cold water system. The unit of measure at the assembly level is pieces of equipment.			
			D202004	INSULATION & IDENTIFICATION	EA	EA	Number of fixtures
				Assemblies include insulation used in association with domestic water supply. The unit of measure at the assembly level is number of fixtures.			
			D202005	SPECIALTIES	EA	EA	Pieces of equipment
				Any other special items associated with domestic water supply. All associated work items, including pipes, fittings, valves, insulation, and hook-up should be included in this assembly. The unit of measure at the assembly level is pieces of special equipment.			
			D202090	OTHER DOMESTIC WATER SUPPLY	XX	XX	
				Domestic water supply not described by the assembly categories listed above.			
			D2030	SANITARY WASTE	EA	EA	Number of fixtures
				This system provides for human health and comfort. Fixtures include all terminal devices which have a water supply (except water supply equipment and specialties), and also devices that transfer fluids into the sanitary waste system that do not have a water supply. Floor drains (not drain hubs) are included as a sanitary waste fixture.			
			D203001	WASTE PIPE & FITTINGS	EA	EA	Number of fixtures
				Assemblies include all pipe, fittings, and associated work with regard to sanitary waste pipe and fittings. The unit of measure at the assembly level is number of fixtures.			
			D203002	VENT PIPE & FITTINGS	EA	EA	Number of fixtures
				Assemblies include all pipe, fittings, and associated work with regard to sanitary vent pipe and fittings. The unit of measure at the assembly level is number of fixtures.			
			D203003	FLOOR DRAINS	EA	EA	Number of floor drains

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
				Assemblies include all floor drains. Hub drains are considered to be pipe and are not included in this category. The unit of measure at the assembly level is number of drains.			
			D203004	SANITARY AND VENT EQUIPMENT	EA	EA	Number of fixtures
				This is equipment associated with the sanitary waste system, including fittings and specialties required for hook-up. Assemblies include waste treatment equipment, i.e., sluice gates, incinerators, etc.; pumps for sewage injection; and holding tanks for the domestic water system. The unit of measure at the assembly level is pieces of equipment.			
			D203005	INSULATION & IDENTIFICATION	EA	EA	Number of fixtures
				Assemblies include insulation used in association with sanitary waste and vent system. The unit of measure at the assembly level is number of fixtures.			
			D203090	OTHER SANITARY WASTE	XX	XX	
				Sanitary waste and vent not described by the assembly categories listed above.			
			D2040	RAIN WATER DRAINAGE	SF	M2	Area of roof
				Roof drainage system. Gutter and downspouts are not included in this subsystem.			
			D204001	PIPE & FITTINGS	LF	M	Length of pipe
				Assemblies include pipe and fittings from the roof drains to the discharge points, including supports and other associated work.			
			D204002	ROOF DRAINS	EA	EA	Number of roof drains
				Assemblies include roof drains. The unit of measure at the assembly level is number of drains.			
			D204003	RAINWATER DRAINAGE EQUIPMENT	EA	EA	Pieces of equipment
				This is equipment associated with the rain water drainage, including fittings and specialties required for hook-up. Assemblies include pumps and other associated items for drainage of rain water.			
			D204004	INSULATION & IDENTIFICATION	LF	M	Length of pipe insulation
				Assemblies include insulation used in association with rain water drainage system.			
			D204090	OTHER RAIN WATER DRAINAGE SYSTEM	XX	XX	
				Rain water drainage system not described by the assembly categories listed above.			
			D2090	OTHER PLUMBING SYSTEMS	EA	EA	Number of special fixtures, etc.
				This subsystem includes all special plumbing systems which are not included in D2010 through D2040.			
			D209001	SPECIAL PIPING SYSTEMS	EA	EA	Number of special fixtures, interceptors, etc.
				Assemblies include all special pipe and fittings, excluding acid waste pipe and work with regard to special pipe. Medical gas and vacuum fittings, and associated systems piping are included in this category. The unit of measure at the assembly level is the number of special fixtures, interceptors, outlets, or systems.			
			D209002	ACID WASTE SYSTEMS	EA	EA	Number of special fixtures, interceptors, etc.
				Assemblies include all pipe, fittings, special acid waste equipment, and other associated work items with regard to acid waste systems. The unit of measure at the assembly level is the number of special fixtures, interceptors, outlets, or systems.			
			D209003	INTERCEPTORS	EA	EA	Number of interceptors
				Assemblies include all interceptors. The unit of measure at the assembly level is number of interceptors.			
			D209004	POOL PIPING AND EQUIPMENT	GPM	M3/S	Gallons per minute
				Assemblies include pumps and associated equipment with pools, including specialties required for hook-up. The unit of measure at the assembly level is each.			
			D209005	COMPRESSED AIR SYSTEM (NON-BREATHING)	PSI	KGM2	Pounds per square inch
			D209090	OTHER SPECIAL PLUMBING SYSTEMS	XX	XX	
				This system includes special plumbing systems not described by the assembly categories listed above, such as fountain piping systems and devices.			
			D30	HVAC	MBH	KW	Total MBH capacity
				This system includes all equipment, distribution systems, controls, and energy supply systems required by the heating, ventilating, and air conditioning system.			
			D3010	ENERGY SUPPLY	MBH	KW	Total power of heating system
				The energy input to the facility (other than electrical) in the form of fuels or hot and cold water distributed from a central base facility. Energy received from wind or solar power is included in this subsystem.			
			D301001	OIL SUPPLY SYSTEM	MBH	KW	Calories per gallon
				Assemblies include storage equipment, transfer equipment, and distribution piping. The unit of measure at the assembly level is each system.			
			D301002	GAS SUPPLY SYSTEM	MBH	KW	MBH
				This category includes both natural gas and LPG. Assemblies include metering and regulation equipment, storage equipment, transfer equipment, and distribution piping. The unit of measure at the assembly level is each system.			
			D301003	STEAM SUPPLY SYSTEM (FROM CENTRAL PLANT)	MBH	KW	Power
				Assemblies include meters, valves, heat exchangers, fittings, and specialties required for hook-up and distribution piping, including supports, sleeves, and insulation. The unit of measure at the assembly level is each system.			

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
			D301004	HOT WATER SUPPLY SYSTEM (FROM CENTRAL PLANT) Assemblies include meters, valves, heat exchangers, fittings, and specialties required for hook-up and distribution piping, including supports, sleeves, and insulation. The unit of measure at the assembly level is each system.	MBH	KW	Power
			D301005	SOLAR ENERGY SUPPLY SYSTEMS Assemblies include collector panels, heat exchangers, storage tanks, pumps, etc., including pipe and fittings required for hook-up. The unit of measure at the assembly level is each system.	MBH	KW	Power
			D301006	WIND ENERGY SUPPLY SYSTEM Wind is used to turn a generator which generates electricity. This energy is either stored in a battery or used to generate hot water in an electric boiler. Assemblies would include the required devices to make this a total electromechanical system. The unit of measure at the assembly level is each system.	MBH	KW	Power
			D301007	COAL SUPPLY SYSTEM This category includes storage equipment, transfer equipment, processing equipment, and distribution piping. The unit of measure at the assembly level is each system.	MBH	KW	Power
			D301090	OTHER ENERGY SUPPLY Energy supply not described by the assembly categories listed above.	XX	XX	
		D3020	HEAT GENERATING SYSTEMS		MBH	KW	Total power of heating system
				This subsystem includes steam, hot water, furnace, and unit heater systems. Fuels include coal, oil, gas and electric unless otherwise noted.			
			D302001	BOILERS Assemblies include steam or hot water boilers, expansion tanks, chemical feeders, air separators, pumps, heat exchangers, boiler feed units, etc. This assembly would also include fittings and specialties and the flue stack. The unit of measure at the assembly level is each system.	MBH	KW	Power
			D302002	FURNACES This is a system that heats air. Assemblies would include furnace and necessary fittings and specialties required for hook-up, including flue and stack. The unit of measure at the assembly level is each.	MBH	KW	Power
			D302003	FUEL-FIRED UNIT HEATERS Assemblies would include unit heaters and the energy supply system hook-up (other than electrical), including all necessary pipe, fittings, and specialties required for hook-up. Flue and stack, if required, are included in this assembly. The unit of measure at the assembly level is each.	MBH	KW	Power
			D302004	AUXILIARY EQUIPMENT Assemblies would include any other equipment associated with heat generating systems. The unit of measure at the assembly level is each.	MBH	KW	Power
			D302005	EQUIPMENT THERMAL INSULATION Assemblies would include insulation of any component in this subsystem. The unit of measure at the assembly level is each.	SF	M2	Area of insulation
			D302090	OTHER HEAT GENERATING SYSTEMS Heat generating systems not described in the assembly categories listed above.	XX	XX	
		D3030	COOLING GENERATING SYSTEMS		TON	KW	Total power of cooling capacity
				Cooling generating equipment of the absorption, centrifugal, reciprocating, and direct expansion types.			
			D303001	CHILLED WATER SYSTEMS Assemblies include condensers, compressors, chillers, pumps, cooling towers, etc., including fittings and specialties required for hook-up. The unit of measure at the assembly level is each.	TON	KW	Power
			D303002	DIRECT EXPANSION SYSTEMS Assemblies include condensers, compressors, heat pumps, and refrigerant piping. The unit of measure at the assembly level is each.	TON	KW	Power
			D303090	OTHER COOLING GENERATING SYSTEMS Cooling generating systems not described by the assembly categories listed above.	XX	XX	
		D3040	DISTRIBUTION SYSTEMS		MBH	KW	Power
				This includes systems that distribute heated and cooled air, ventilating and exhaust air, hot and chilled water, steam, and glycol heating.			
			D304001	AIR DISTRIBUTION, HEATING & COOLING Assemblies include heating coils, cooling coils, and fittings and specialties required for water hook-up. This assembly also includes duct heaters, filters, humidifiers, supply and return ductwork, dampers, fire dampers, supply and return grilles, registers and diffusers, turning vanes, sound traps, and all associated insulation. The unit of measure at the assembly level is MCFM.	MCFM	L/S	Volume of air flow
			D304002	STEAM DISTRIBUTION SYSTEMS Assemblies include pipe and fittings, supports, wall and floor sleeves, and pipe insulation. The unit of measure at the assembly level is MBH.	MBH	KW	Power
			D304003	HOT WATER DISTRIBUTION SYSTEMS Assemblies include pipe and fittings, supports, wall and floor sleeves, and pipe insulation. The unit of measure at the assembly level is MBH.	MBH	KW	Power
			D304004	CHANGE OVER DISTRIBUTION SYSTEMS	MBH	KW	Power
			D304005	GLYCOL DISTRIBUTION SYSTEMS Assemblies include pipe and fittings, supports, wall and floor sleeves, and pipe insulation. The unit of measure at the assembly level is MBH.	MBH	KW	Power

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
			D304006	CHILLED WATER DISTRIBUTION SYSTEMS Assemblies include pipe and fittings, supports, wall and floor sleeves, and pipe insulation. The unit of measure at the assembly level is tons.	TON	KW	Power
			D304007	EXHAUST SYSTEMS Assemblies include ductwork grilles, registers, diffusers, fans, and all associated work. The unit of measure at the assembly level is each system.	MCF	L/S	Volume of air flow
			D304008	AIR HANDLING UNITS	MCFM	L/S	Volume of air flow
			D304090	OTHER DISTRIBUTION SYSTEMS Distribution systems not described by the assembly categories listed above.	XX	XX	
			D3050	TERMINAL & PACKAGE UNITS This category includes self-contained heating and cooling units.	MBH	KW	Power
			D305001	UNIT VENTILATORS Assemblies include the complete terminal unit and wall sleeve with all controls.	EA	EA	Number of units
			D305002	UNIT HEATERS Assemblies include the complete terminal unit and wall sleeve with all controls.	EA	EA	Number of units
			D305003	FAN COIL UNITS Assemblies include the complete terminal unit and wall sleeve with all controls.	EA	EA	Number of units
			D305004	FIN TUBE RADIATION Assemblies include the complete terminal unit and wall sleeve with all controls.	EA	EA	Number of units
			D305005	ELECTRIC HEATING Assemblies include the complete terminal unit and wall sleeve with all controls.	EA	EA	Number of units
			D305006	PACKAGE UNITS Assemblies include complete package units, with integral roof top curbs and all associated devices. A heating system can be selected from hot water, steam coil, or gas furnace and can be a single or multi-zone system. The unit of measure at the assembly level is each.	EA	EA	Number of units
			D305090	OTHER TERMINAL & PACKAGE UNITS Terminal and package units not described by the assembly categories listed above.	XX	XX	
			D3060	CONTROLS & INSTRUMENTATION Includes devices such as thermostats, timers, sensors, control valves, etc., necessary to operate the system as designed.	MBH	KW	Power
			D306001	HVAC CONTROLS Includes devices such as thermostats, timers, sensors, control valves, etc., necessary to operate the total system. The unit of measure at the assembly level is each system.	EA	EA	Power
			D306002	ELECTRONIC CONTROLS	EA	EA	Number of devices
			D306003	PNEUMATIC CONTROLS Assemblies includes ball and butterfly valves, actuators, high pressure chokes, valve positioners, sensors, regulators, etc.	EA	EA	Number of devices
			D306004	INSTRUMENT AIR COMPRESSORS Assemblies include air compressors, dryers, and distribution tubing, (only used with pneumatic control systems). The unit of measure at the assembly level is each.	EA	EA	Number of compressors
			D306005	GAS PURGING SYSTEMS Assemblies include the removal of contaminated or unwanted gases from a structure or pipe.	EA	EA	Number of systems
			D306090	OTHER CONTROLS INSTRUMENTATION Controls and instrumentation not described by the assembly categories listed above.	XX	XX	
			D3070	SYSTEMS TESTING & BALANCING This includes operation of all systems to determine capacity and adjustment of water flow in chilled water and hot water systems, air flow of air handling units, supply and exhaust fans, and supply and return, and exhaust registers.	MBH	KW	Power
			D307001	WATER SIDE TESTING & BALANCING - HEATING & COOLING Includes operating and testing of pumps, setting of all control valves, and determining system capacity. The unit of measure at the assembly level is each device, i.e., boiler, chiller, fan coil, and unit heater.	EA	EA	Number of devices
			D307002	AIR SIDE TESTING & BALANCING - HEATING, COOLING & EXHAUST Includes operating and testing of all air handling devices, adjusting of all fans to set rate of air flow, setting all fan motors at desired operation, setting of air flow at all registers, grilles, diffusers, and louvers to deliver design CFM, and testing and calibrating of thermostats to achieve desired space temperature. The unit of measure at the assembly level is each device.	EA	EA	Number of devices
			D307003	HVAC COMMISSIONING Final testing of operational system.	LS	LS	Lump sum
			D307090	OTHER SYSTEMS TESTING & BALANCING Systems testing and balancing not described by the assembly categories listed above.	XX	XX	

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
		D3090	OTHER HVAC SYSTEMS AND EQUIPMENT		EA	EA	Number of special mechanical systems
				This subsystem includes special mechanical systems that are not normally included as part of standard HVAC systems.			
		D309001	GENERAL CONSTRUCTION ITEMS		SF	M2	Area of special system
				Includes construction work other than mechanical which must be performed in conjunction with the special mechanical system to make the system complete.			
		D309002	REFRIGERATION SYSTEMS		TON	KW	Power
				Includes equipment for refrigeration in a cold storage facility. Both low and medium temperature equipment are included. Assemblies include: condensing and compressor units, evaporator blowers, refrigerant piping, and specialties, heat recovery systems (liquid or gas), heat recovery distribution systems (liquid or gas), and system testing and balancing.			
		D309090	OTHER SPECIAL MECHANICAL SYSTEMS		XX	XX	
				Any other mechanical system not defined in other categories. Assemblies would include special systems and special devices. The unit of measure at the assembly level is each system or device.			
		D40	FIRE PROTECTION		SF	M2	Gross floor area
				This system includes standard and special fire protection systems. Fire alarm systems are included in D503001.			
		D4010	FIRE ALARM AND DETECTION SYSTEMS		SF	M2	Gross floor area
				Assemblies include wire, conduit, conduit support or fastening systems, fire alarm devices, fire detection devices, safety switches, mass notification, all electrical connections and other associated items.			
		D401001	FIRE ALARM DISTRIBUTION		SF	M2	Gross floor area
				Wire, conduit, conduit support or fastening systems, switches and connections.			
		D401002	FIRE ALARM DEVICES		EA	EA	Number of devices
				Fire alarm and fire detection devices			
		D4020	FIRE SUPPRESSION WATER SUPPLY AND EQUIPMENT		LF	M	Length of system
				Requirements for water supply design criteria and any items located upstream of the suppression systems such as PIV's, backflow preventers, strainers, etc.. The water supply distribution system begins 5'-0" outside the building.			
		D402001	FIRE PROTECTION WATER PIPING AND EQUIPMENT		LF	M	Length of system
				Piping			
		D402002	FIRE PUMP		EA	EA	Number of pumps
		D4030	STANDPIPE SYSTEMS		EA	EA	Number of sprinkler heads
				This subsystem includes the complete standpipe system.			
		D403001	STANDPIPE EQUIPMENT & PIPING		EA	EA	Number of sprinkler heads
				Assemblies include standpipe risers and all other piping, fittings, and supports associated with this category. Siamese connections, roof manifolds, cabinets, hoses, racks, and other fire department connections are included in this assembly. All equipment including pumps, tanks, etc., with all required fittings and specialties for hook-up are included in this assembly.			
		D4040	SPRINKLERS		EA	EA	Number of sprinkler heads
				This subsystem includes the water supply equipment and related piping from the equipment to the sprinkler head.			
		D404001	SPRINKLERS AND RELEASING DEVICES		EA	EA	Number of sprinkler heads
				The fixture, device, or sprinkler head that releases the water to suppress the fire. The unit of measure at the assembly level is each sprinkler head.			
		D404002	SPRINKLER WATER SUPPLY EQUIPMENT AND PIPING		EA	EA	Number of sprinkler heads
				Assemblies include alarm valves, flow control valves, pipe and fittings from equipment to sprinkler heads, including all supports and wall or floor sleeves. All equipment including tanks, pumps, and other associated equipment, fittings and specialties required for hook-up are included in this assembly. The unit of measure at the assembly level is each sprinkler head.			
		D4050	FIRE PROTECTION SPECIALTIES		EA	EA	Number of extinguishers
				This subsystem includes fire extinguishing devices.			
		D405001	PORTABLE EXTINGUISHERS		EA	EA	Number of extinguishers
				Assemblies include all types of fire extinguishers, i.e., water, dry chemical, carbon dioxide, soda acid, etc. The brackets, sleeves, and supporting devices are included in this assembly.			
		D4090	OTHER FIRE PROTECTION SYSTEMS		EA	EA	Each system
				Requirements for all other suppression systems. Water based systems (e.g., foam systems) specified from water supply onwards, complete specification for gas systems, incidental systems such as kitchen hood systems.			
		D409001	CARBON DIOXIDE SYSTEMS		EA	EA	Number of systems
		D409002	FOAM GENERATING EQUIPMENT		EA	EA	Pieces of equipment
		D409003	CLEAN AGENT SYSTEMS		EA	EA	Number of systems
		D409004	HOOD & DUCT FIRE PROTECTION		EA	EA	Pieces of equipment
		D409090	OTHER SPECIAL FIRE PROTECTION SYSTEMS		EA	EA	Each system
				Assemblies includes other fire protection systems such as halon systems, exhaust hood systems, and special chemical suppression systems.			
		D50	ELECTRICAL		AMP	AMP	Gross floor area
				This system is defined by the electric current used or regarded as a source of power.			
		D5010	ELECTRICAL SERVICE & DISTRIBUTION		AMP	AMP	Gross floor area
				This subsystem provides for all electrical devices that are required to deliver the main source of power to the facility and to distribute this power to subpanels.			
		D501001	MAIN TRANSFORMERS		AMP	AMP	Number of transformers
				Transformers used for primary electrical service and located within the building footprint. Assemblies include transformers, raised pad, trenching, and backfill. This assembly will not likely be used when an exterior transformer is required in G4010 ELECTRICAL DISTRIBUTION.			
		D501002	SERVICE ENTRANCE EQUIPMENT		AMP	AMP	Gross floor area
				This includes the protection equipment and metering devices for main distribution. Assemblies include main distribution panel, breaker, fuses, and meters.			
		D501003	INTERIOR DISTRIBUTION TRANSFORMERS		AMP	AMP	Gross floor area
				Transformers fed downstream of the service entrance equipment. Assemblies include transformers, conduit, conduit support, and wire.			

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
			D501004	PANELBOARDS	AMP	AMP	Gross floor area
				Branch circuit panelboards. Assemblies include panelboards, breakers, conduit, and wire.			
			D501005	ENCLOSED CIRCUIT BREAKERS	AMP	AMP	Gross floor area
				Over-current protection device enclosed in its own housing. Assemblies include enclosed circuit breaker, conduit, and wire.			
			D501006	MOTOR CONTROL CENTERS	AMP	AMP	Gross floor area
				This is a cabinet in which motor starters and operation devices are contained. Assemblies include the motor control center cabinet, motor starters, contacts, switches, conduit, wire, and all associated items.			
			D501090	OTHER SERVICE AND DISTRIBUTION	XX	XX	
				Service and distribution not described by the assembly categories listed above.			
		D5020	LIGHTING & BRANCH WIRING		SF	M2	Floor area
				Lighting systems including light fixtures and devices, i.e., switches, receptacles, and equipment connections.			
			D502001	BRANCH WIRING	SF	M2	Floor area
				This assembly includes switches, receptacles, equipment connections, conduit, and wire.			
			D502002	LIGHTING EQUIPMENT	SF	M2	Floor area
				This assembly includes fixtures, conduit, wire, and switching devices.			
			D502090	OTHER LIGHTING AND BRANCH WIRING	XX	XX	
				Lighting and branch wiring not described by the assembly categories listed above.			
		D5030	COMMUNICATIONS & SECURITY		SF	M2	Floor area
				This subsystem includes provisions for communication devices and alarm protection systems.			
			D503001	TELECOMMUNICATIONS SYSTEMS	EA	EA	Number of outlets
				This system would include central switchboards, telephone sets, underground ducts, and manholes. Assemblies include wire, conduit, backboards, cabinets, outlets, and power supply connections.			
			D503002	PUBLIC ADDRESS SYSTEMS	SF	M2	Floor area
				Assemblies include wire, conduit, speakers, monitoring devices, amplifiers, switches, power system tie-in devices, and detection devices.			
			D503003	INTERCOMMUNICATIONS SYSTEMS	EA	EA	Number of stations
				Assemblies include wire, conduit, speakers, monitoring devices, amplifiers, switches, power system tie-in devices, and detection devices.			
			D503004	TELEVISION SYSTEMS	EA	EA	Number of outlets
				Assemblies include wire, conduit, grounding amplifiers, receivers, video equipment, and outlets grouped according to use.			
			D503005	SECURITY SYSTEMS	EA	EA	Number of system control panels
				Assemblies include wire, conduit, conduit support or fastening systems, security alarm devices, all electrical connections, and other associated items. Intrusion Detection Systems (IDS) are included in this category.			
			D503006	NURSE CALL SYSTEMS	EA	EA	Number of outlets
				Assemblies include wire, conduit, speakers, monitoring devices, amplifiers, switches, power system tie-in devices, and detection devices.			
			D503007	CLOCK & PROGRAM SYSTEMS	EA	EA	Number of clocks
				Assemblies include wire, conduit, power systems tie-in, safety switches, control panels, battery back-up devices, clocks and outlets.			
			D503090	OTHER COMMUNICATIONS & ALARM SYSTEMS	XX	XX	
				Communication and alarm systems not described by the assembly categories listed above.			
		D5090	OTHER ELECTRICAL SERVICES		SF	M2	Gross Floor area
				Systems not described in System D5030.			
			D509001	GENERAL CONSTRUCTION ITEMS (ELECTRICAL)	SF	M2	Gross Floor area
				Includes construction other than electrical which must be performed in conjunction with the special electrical system to make the system complete.			
			D509002	EMERGENCY LIGHTING & POWER	SF	M2	Gross Floor area
				Assemblies include fixtures, motors used for power generation, connection and testing, transfer switches, conduit, wire, battery chargers, batteries, and solar panels.			
			D509003	GROUNDING SYSTEMS	SF	M2	Gross Floor area
				This assembly includes grounding protection systems.			

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
			D509004	LIGHTNING PROTECTION Assemblies include lightning protection devices (air terminals, mounting devices), clamps, ground rods, cadwells, conductors, trenching, backfill, and any other items used to ground metal structural frames with conduit and wire.	SF	M2	Gross Floor area
			D509005	ELECTRIC HEATING Items could include baseboard heaters and wall and ceiling heaters. Assemblies include safety switches, control devices, heaters, conduit, and wire.	SF	M2	Gross Floor area
			D509006	ENERGY MANAGEMENT CONTROL SYSTEM Assemblies include wire, conduit, conduit support or fastening systems, sensor devices, and all electrical connections.	SF	M2	Gross Floor area
			D509090	OTHER SPECIAL SYSTEMS AND DEVICES Special systems and devices not described by the assembly categories listed above.	XX	XX	
E	EQUIPMENT & FURNISHINGS				SF	M2	Gross Floor area
				The types of equipment included in this assembly consist of the following: commercial, institutional, and vehicular. The types of furnishings found here include artwork, window treatments, seating, furniture, rugs etc.			
	E10 EQUIPMENT				SF	M2	Gross Floor area
				This system refers to equipment not found in System C1030 (Fittings).			
	E1010	COMMERCIAL EQUIPMENT			SF	M2	Floor area
				This equipment is not likely to be used in every building type. Subsystem C1030 includes those items likely to be found in every building type.			
		E101001	CHECKROOM EQUIPMENT	All associated work items including keys, tags, and storage cabinets would be included in this assembly.	EA	EA	Number of coat hanging devices
		E101002	REGISTRATION EQUIPMENT		EA	EA	Pieces of equipment
		E101003	VENDING EQUIPMENT		EA	EA	Pieces of equipment
		E101004	LAUNDRY EQUIPMENT		EA	EA	Pieces of equipment
		E101005	SECURITY & VAULT EQUIPMENT		EA	EA	Pieces of equipment
		E101006	TELLER AND SERVICE EQUIPMENT		EA	EA	Pieces of equipment
		E101007	MERCANTILE EQUIPMENT		EA	EA	Pieces of equipment
		E101008	OFFICE EQUIPMENT		EA	EA	Pieces of equipment
	E1020	INSTITUTIONAL EQUIPMENT			SF	M2	Floor area
				Institutional equipment includes items that are normally found in hospitals, laboratories, auditoriums, and libraries.			
		E102001	MISCELLANEOUS COMMON FIXED & MOVEABLE EQUIPMENT		EA	EA	Pieces of equipment
		E102002	MEDICAL EQUIPMENT		EA	EA	Pieces of equipment
		E102003	LABORATORY EQUIPMENT		EA	EA	Pieces of equipment
		E102004	MORTUARY EQUIPMENT		EA	EA	Pieces of equipment
		E102005	AUDITORIUM & STAGE EQUIPMENT		EA	EA	Pieces of equipment
		E102006	LIBRARY EQUIPMENT		EA	EA	Pieces of equipment
		E102007	ECCLESIASTICAL EQUIPMENT		EA	EA	Pieces of equipment
		E102008	INSTRUMENTAL EQUIPMENT		EA	EA	Pieces of equipment
		E102009	AUDIO-VISUAL EQUIPMENT		EA	EA	Pieces of equipment
		E102010	DETENTION EQUIPMENT		EA	EA	Pieces of equipment
	E1030	VEHICULAR EQUIPMENT			EA	EA	Pieces of equipment
				Vehicular equipment includes for parking, loading docks, and warehouses.			
		E103001	PARKING CONTROL EQUIPMENT		EA	EA	Pieces of equipment
		E103002	LOADING DOCK EQUIPMENT		EA	EA	Number of docks
		E103003	WAREHOUSE EQUIPMENT		EA	EA	Pieces of equipment
		E103004	AUTOMOTIVE SHOP EQUIPMENT		EA	EA	Pieces of equipment
	E1040	GOVERNMENT FURNISHED EQUIPMENT			EA	EA	Pieces of equipment
				New and existing equipment provided to the Contractor by the Government.			
	E1090	OTHER EQUIPMENT					
				The type of equipment found in his category include items for maintenance, food service, and waste handling.			
		E109001	BUILT-IN MAINTENANCE EQUIPMENT		SF	M2	Floor area
				The unit of measure at the assembly level is each.			
		E109002	FOOD SERVICE EQUIPMENT		EA	EA	Seating capacity
				The unit of measure at the assembly level is the total set of equipment needed in the particular functional space area.			
		E109003	WASTE HANDLING EQUIPMENT		EA	EA	Pieces of equipment
		E109004	RESIDENTIAL EQUIPMENT		EA	EA	Pieces of equipment
		E109005	UNIT KITCHENS		EA	EA	Pieces of equipment
		E109006	DARKROOM EQUIPMENT		EA	EA	Pieces of equipment
		E109007	ATHLETIC, RECREATIONAL, & THERAPEUTIC EQUIPMENT		EA	EA	Pieces of equipment
		E109008	PLANETARIUM EQUIPMENT		EA	EA	Pieces of equipment
		E109009	OBSERVATORY EQUIPMENT		EA	EA	Pieces of equipment
		E109010	AGRICULTURAL EQUIPMENT		EA	EA	Pieces of equipment
		E109090	OTHER SPECIALIZED FIXED AND MOVEABLE EQUIPMENT		XX	XX	
				Specialized fixed and moveable equipment not described by the assembly categories listed above.			
	E20 FURNISHINGS				SF	M2	Floor area
				The types of furnishings found here include artwork, window treatments, seating, furniture, rugs, etc.			
	E2010	FIXED FURNISHINGS			SF	M2	Floor area
				The types of furnishings found here include artwork, window treatments, and seating.			
		E201001	FIXED ARTWORK		EA	EA	Pieces of art work
		E201002	WINDOW TREATMENTS		SF	M2	Area of window treatment
		E201003	SEATING (FIXED)		EA	EA	Number of seats
		E201004	FIXED INTERIOR LANDSCAPING		EA	EA	Number of items
		E201090	OTHER FIXED INTERIOR FURNISHINGS		EA	EA	Number of furnishings
	E2020	MOVEABLE FURNISHINGS					
				The types of furnishings found here include moveable artwork, furniture, rugs, etc.			
		E202001	MOVEABLE ART WORK		EA	EA	Pieces of art work
		E202002	MODULAR PREFABRICATED FURNITURE		SF	M2	Pieces of prefabricated furniture
		E202003	FREESTANDING FURNITURE		EA	EA	Pieces of furniture
		E202004	RUGS & ACCESSORIES		EA	EA	Number of items
				Assemblies include rugs and accessories.			
		E202005	MOVEABLE MULTIPLE SEATING		EA	EA	Number of items
		E202006	MOVEABLE INTERIOR LANDSCAPING		EA	EA	Number of items

Final Combined Uniformat II / WBS 9/18/06, Revision 2					E UOM	M UOM	Quantity Definition
Unf L1	Unf L2	Unf L3	WBS L4	Definition			
			E202090	OTHER MOVEABLE FURNISHINGS	EA	EA	Number of furnishings
F	SPECIAL CONSTRUCTION & DEMOLITION				SF	M2	Floor area
				Special construction includes air-supported structures; pre-engineered structures; special purpose rooms; sound, vibration, and seismic construction; radiation protection; special security systems; aquatic facilities; ice rinks, site constructed incinerators; kennels and animal shelters; liquid and gas storage tanks; recording instrumentation; and building automation systems. Selective building demolition includes demolition of existing buildings, and site demolition.			
	F10	SPECIAL CONSTRUCTION			SF	M2	Floor area
				Special construction includes air-supported structures; pre-engineered structures; special purpose rooms; sound, vibration, and seismic construction; radiation protection; special security systems; aquatic facilities; ice rinks, site constructed incinerators; kennels and animal shelters; liquid and gas storage tanks; recording instrumentation; and building automation systems.			
		F1010	SPECIAL STRUCTURES		SF	M2	Floor area
				Special structures includes air-supported structures, and pre-engineered structures.			
			F101001	METAL BUILDING SYSTEMS	SF	M2	Floor area
			F101002	EXTERIOR UTILITY BUILDINGS	SF	M2	Floor area of exterior building
			F101003	AIR-SUPPORTED STRUCTURES	SF	M2	Floor area of exterior building
			F101090	OTHER SPECIAL CONSTRUCTION	XX	XX	
		F1020	INTEGRATED CONSTRUCTION		SF	M2	Floor area
				Integrated construction includes integrated assemblies and special purpose rooms.			
			F102001	SPECIAL PURPOSE ROOMS	SF	M2	Area of room
			F102002	INTEGRATED ASSEMBLIES	SF	M2	Area of room
			F102090	OTHER INTEGRATED CONSTRUCTION	SF	M2	Area of room
		F1030	SPECIAL CONSTRUCTION SYSTEMS		SF	M2	Area of room
				Special construction systems includes sound, vibration, and seismic construction; radiation protection; special security systems; and built-in place vaults.			
			F103001	VAULTS	SF	M2	Area of vault
				This is a built-in-place vault. Prefabricated safes are not included in this assembly. The unit of measure at the assembly level is each.			
			F103002	SOUND, VIBRATION, AND SEISMIC CONSTRUCTION	SF	M2	Area of room
			F103003	RADIATION PROTECTION	SF	M2	Area of room
			F103090	OTHER SPECIAL CONSTRUCTION SYSTEMS	SF	M2	Area of room
		F1040	SPECIAL FACILITIES		SF	M2	Area of room
				Special facilities includes aquatic facilities; ice rinks, site constructed incinerators; kennels and animal shelters; and liquid and gas storage tanks.			
			F104001	INTERIOR SWIMMING POOLS	SF	M2	Area of pool
			F104002	LIQUID AND GAS STORAGE TANKS	EA	EA	Number of storage tanks
			F104003	KENNELS AND ANIMAL SHELTERS	SF	M2	Area of kennel or animal shelter
			F104004	SITE CONSTRUCTED INCINERATORS	EA	EA	Number of incinerators
			F104005	ICE RINKS	SF	M2	Area of ice rink
			F104090	OTHER SPECIAL FACILITIES	EA	EA	Number of special facilities
		F1050	SPECIAL CONTROLS AND INSTRUMENTATION		XX	XX	
				Special controls and instrumentation includes recording instrumentation and building automation systems.			
			F105001	RECORDING INSTRUMENTATION	EA	EA	Number of instruments
			F105002	BUILDING AUTOMATION SYSTEMS	EA	EA	Number of systems
			F105090	OTHER SPECIAL CONTROLS AND INSTRUMENTATION	EA	EA	Number of controls and instruments
	F20	SELECTIVE BUILDING DEMOLITION			LS	LS	
				Selective building demolition includes demolition of existing buildings, site demolition, and hazardous components abatement.			
		F2010	BUILDING ELEMENTS DEMOLITION		LS	LS	
				Selective building demolition includes demolition of existing buildings, and site demolition.			
			F201001	SUBSTRUCTURE & SUPERSTRUCTURE	LS	LS	
			F201002	EXTERIOR CLOSURE	LS	LS	
			F201003	ROOFING	LS	LS	
			F201004	INTERIOR CONSTRUCTION & FINISHES	LS	LS	
			F201005	CONVEYING SYSTEMS	LS	LS	
			F201006	MECHANICAL SYSTEMS	LS	LS	
			F201007	ELECTRICAL SYSTEMS	LS	LS	
			F201008	EQUIPMENT & FURNISHINGS	LS	LS	

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
			F201090	OTHER NON-HAZARDOUS SELECTIVE BUILDING DEMOLITION Non-hazardous selective building demolition not described by the assembly categories listed above.	XX	XX	
		F2020	HAZARDOUS COMPONENTS ABATEMENT		LS	LS	
				Hazardous components abatement includes the removal or encapsulation of hazardous building materials and components. Hazardous components include asbestos, lead based paint, paint containing cadmium, chromium and lead, mercury and low level radioactive components, PCBs, ozone depleting substances, animal droppings and molds and spores.			
			F202001	SUBSTRUCTURE & SUPERSTRUCTURE	LS	LS	
			F202002	EXTERIOR CLOSURE	LS	LS	
			F202003	ROOFING	LS	LS	
			F202004	INTERIOR CONSTRUCTION & FINISHES	LS	LS	
			F202005	CONVEYING SYSTEMS	LS	LS	
			F202006	MECHANICAL SYSTEMS	LS	LS	
			F202007	ELECTRICAL SYSTEMS	LS	LS	
			F202008	EQUIPMENT & FURNISHINGS	LS	LS	
			F202090	OTHER HAZARDOUS SELECTIVE BUILDING DEMOLITION Hazardous selective building demolition not described by the assembly categories listed above.	XX	XX	
G	BUILDING SITWORK				ACR	Hectare	Total area of site
				Building sitework includes site preparations, site improvements, site civil/mechanical utilities, site electrical utilities, service and pedestrian tunnels, and other site construction, such as bridges, and railroad spurs.			
		G10	SITE PREPARATIONS		ACR	Hectare	Total area of site
				This system includes assemblies for miscellaneous sitework such as clearing and grubbing, demolition and relocation, various earthwork tasks, and other site preparation and cleanup requirements. Hazardous cleanup is not included but is the subject of another WBS.			
		G1010	SITE CLEARING		ACR	Hectare	Area to be cleared
				This covers the different assemblies and options available for clearing of a site, tree and stump removal, burning, grubbing, chipping, and load and haul assemblies for removal of the cleared material.			
		G101001	CLEARING		ACR	Hectare	Area to be cleared
				This is the removal of above ground vegetation including stumps. For a wet site, Low Ground Pressure (LGP) equipment is used.			
		G101002	TREE REMOVAL		EA	EA	Number of trees to be removed
				This is the selective removal of trees on the site. Various options exist for different sizes of trees to be removed.			
		G101003	STUMP REMOVAL		EA	EA	Number of stumps to be removed
				This is the selective removal of stumps on the site. Various options exist for different sizes of stumps to be removed.			
		G101004	GRUBBING		ACR	Hectare	Area to be grubbed
				Grubbing is the removal of sod and other topsoil that contains unsuitable organic material. Various equipment types and size choices are available. Wet grubbing utilizes Low Ground Pressure (LGP) equipment. Haul-off of grubbed material is also included.			
		G101005	SELECTIVE THINNING		ACR	Hectare	Area to be thinned
				This is the selective removal of trees and underbrush without requiring extensive clearing and/or grubbing of the site.			
		G101006	DEBRIS DISPOSAL		CY	M3	Volume of material
				This is the disposal of the material that has been cleared and grubbed. Loading, hauling, and dump charges are included.			
		G101090	OTHER SITE CLEARING		XX	XX	
				Site clearing not described by the assembly categories listed above.			
		G1020	SITE DEMOLITION & RELOCATIONS		SY	M2	Area to be demolished
				This includes the demolition and/or relocation of structures, pavements, fencing, and underground utilities. Disposal of debris or demolished material, including loading and hauling, is also included.			
		G102001	BUILDING MASS DEMOLITION		CF	M3	Interior volume of building
				This is the complete demolition of buildings or structures. Options include steel, concrete, masonry, and wood structures.			
		G102002	ABOVE GROUND SITE DEMOLITION		SY	M2	Area to be demolished
				This is the demolition of pavements, fencing, and other non-building structures on a site. Pavement include roads, sidewalks, driveways, and curbs. Fencing types include chain link, barbed wire, and wood. This can also include removal and disposal of above ground storage tanks, including tank contents, associated piping, etc.			
		G102003	UNDERGROUND SITE DEMOLITION		SY	M2	Area to be demolished
				This is the demolition of underground utilities such as piping, manholes, and other non-building underground structures. The unit of measure at the assembly level for piping is LF and for manholes is CY. This can also include removal and disposal of under ground storage tanks, including tank contents, associated piping, etc.			
		G102004	BUILDING RELOCATION		SF	M2	Area of building to be relocated
				This is the process of dismantling a structure, and reassembling it on a different site.			
		G102005	UTILITY RELOCATION		LF	M	Length of pipe run
				To remove and reset. This is the removal and relocation of underground utilities such as steel and concrete pipe.			
		G102006	FENCING RELOCATION		LF	M	Length of fencing
		G102007	SITE CLEANUP		SY	M2	Area of site to clean
				Covered in this assembly category are items for site and area cleanup and pavement sweeping. Disposal of the debris is also included.			
		G102090	OTHER SITE DEMOLITION & RELOCATIONS		XX	XX	
				Site demolition and relocation not described by the assembly categories listed above.			
		G1030	SITE EARTHWORK		CY	M3	Volume of material
				Included are assemblies and options for site work such as grading, excavation, filling, compaction, stabilization, etc.			
		G103001	GRADING		SY	M2	Area to be graded
				Grading is leveling or flattening of the site in preparation for landscaping or other site construction. Includes unlined stormwater collection ponds.			
		G103002	COMMON EXCAVATION		CY	M3	Volume of material to be excavated
				This is excavation for roads, sidewalks, curbs, and trenching for underground utilities. Excavation may be carried out by a variety of equipment sizes and types. Disposal of the excavated material is also included.			
		G103003	ROCK EXCAVATION		CY	M3	Volume of rock to be excavated
				This is excavation of rock by explosives. Different equipment selections and load and haul are included.			

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
			G103004	FILL & BORROW This is filling or replacing the material that was removed during excavation. Either the excavated material may be used or soil and sand may be hauled in from off-site. Filling to basements and foundations is not included in the subsystem.	CY	M3	Volume of material to place
			G103005	COMPACTION Compaction is the process of packing the fill material once it is in place. This may be done by machine or hand. Assemblies exist for both hand and machine compaction of soil, sand, and the excavated material.	CY	M3	Volume of material to compact
			G103006	SOIL STABILIZATION This is stabilization of the soil-in-place by the addition of lime or cement.	CY	M3	Volume of soil to stabilize
			G103007	SLOPE STABILIZATION This is stabilization of the soil-in-place through the use of rip rap, gabions, slope paving, or other forms of soil armoring.	SY	M2	Area of slope
			G103008	SOIL TREATMENT Treatment of soil prior to final construction for insect protection or other purposes.	SY	M2	Area of soil to treat
			G103009	SHORING Shoring is the temporary support for existing structures or excavation during construction.	SF	M2	Area requiring shoring
			G103010	TEMPORARY DEWATERING This is the dewatering of the site by wellpoints to lower the groundwater table. This will facilitate excavation in areas with high water tables.	SY	M2	Area to dewater
			G103011	TEMPORARY EROSION & SEDIMENT CONTROL Interim measures to minimize erosion during construction.	SF	M2	Area to be protected
			G103090	OTHER SITE EARTHWORK Site earthwork not described by the assembly categories listed above.	XX	XX	
			G1040	HAZARDOUS WASTE REMEDIATION Hazardous waste remediation, removal, disposal and restoration of contaminated soil and/or groundwater.	LS	LS	
			G104001	REMOVAL OF CONTAMINATED SOIL	CY	M3	Volume of contaminated soil
			G104002	SOIL RESTORATION AND TREATMENT	CY	M3	Volume of soil
			G104090	OTHER HAZARDOUS WASTE REMEDIATION Hazardous waste remediation not described by the assembly categories listed above.	XX	XX	
			G20	SITE IMPROVEMENTS This includes improvements such as parking lots, sidewalks, roadways, fencing, retaining walls, and landscaping.	LS	LS	
			G2010	ROADWAYS This subsystem includes options for access, arterial, or interstate roadways. A variety of pavement types and thickness are available.	SY	M2	Area of roadway
			G201001	BASES & SUBBASES These are the compacted and prepared gravel or soil layers that are placed prior to the installation of the final surface. The subbase is placed and compacted before the base layer is applied.	SY	M2	Area of roadway
			G201002	CURBS & GUTTERS This is the drainage system for the selected roadway type. Options include curb and gutter drains or area drains with grates.	LF	M	Length of drainage pipe
			G201003	PAVED SURFACES This is material that is placed atop the base layer to provide the driving surface.	SY	M2	Area of roadway
			G201004	MARKING & SIGNAGE This includes roadway signage and pavement painting. Assemblies are included for traffic signs and posts and intersection, crosswalk, or other pavement painting or striping.	SY	M2	Area of roadway
			G201005	GUARDRAILS & BARRIERS This is any associated guardrails or barriers that are required for the selected roadway type.	LF	M	Length of guardrail or barrier
			G201006	RESURFACING This is the placement of an asphalt wearing course over the existing pavement surface. Assemblies exist for resurfacing of gravel, concrete, and asphalt roadways.	SY	M2	Area of roadway
			G201090	OTHER ROADWAYS Roadways not described by the assembly categories listed above.	XX	XX	
			G2020	PARKING LOTS These are the areas required of vehicles parking and include different surfaces and drainage options.	EA	EA	Number of spaces
			G202001	BASES & SUBBASES These are the compacted and prepared gravel or soil layers that are placed prior to the installation of the final surface. The subbase is placed and compacted before the base layer is applied.	SY	M2	Area of parking lot
			G202002	CURBS & GUTTERS This is the curb and gutter drains or area drains with grates.	LF	M	Length of curbs & gutters
			G202003	PAVED SURFACES This is material that is placed atop the base layer to provide the driving surface.	SY	M2	Area of parking lot
			G202004	MARKING & SIGNAGE This includes painting of the parking stalls, signage, etc.	EA	EA	Number of spaces
			G202005	GUARDRAILS & BARRIERS Guardrails, barriers, parking stops and other similar devices.	LF	M	Length of guardrail or barrier
			G202006	RESURFACING This is the placement of an asphalt wearing course over the existing parking surface.	SY	M2	Area of parking lot
			G202007	MISCELLANEOUS STRUCTURES AND EQUIPMENT	EA	EA	Number of structures or equipment
			G202090	OTHER PARKING LOTS Parking areas not described by the assembly categories listed above.	XX	XX	
			G2030	PEDESTRIAN PAVING This subsystem includes options for sidewalks and other small paved areas.	SY	M2	Area of pavement
			G203001	BASES & SUBBASES These are the compacted and prepared gravel or soil layers that are placed prior to the installation of the final surface. The subbase is placed and compacted before the base layer is applied.	SY	M2	Area of pavement
			G203002	CURBS & GUTTERS This is the curb and gutter drains or area drains with grates.	LF	M	Length of curbs & gutters
			G203003	PAVED SURFACES This is material that is placed atop the base layer to provide the walking or driving surface.	SY	M2	Area of pavement
			G203004	GUARDRAILS & BARRIERS This is any associated guardrails or barriers that are required.	LF	M	Length of guardrail or barrier
			G203005	RESURFACING This is the placement of an asphalt wearing course over the existing pavement surface.	SY	M2	Area of pavement
			G203090	OTHER WALKS, STEPS & TERRACES Walks, steps, ramps, terraces not described by the assembly categories listed above.	XX	XX	

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
		G2040	SITE DEVELOPMENT	Included are assemblies for on-site construction of fences, retaining walls, playing fields, fountains, and other site improvements.	EA	EA	Each Structure
		G204001	FENCING & GATES	This includes installation or construction of security, boundary, or barbed wire fencing and all required gates.	LF	M	Length of fence
		G204002	RETAINING WALLS AND FREESTANDING WALLS	These are structures used to prevent the flow or lateral movement of soil. Assemblies exist for cast-in-place concrete retaining walls.	SY	M2	Area of wall
		G204003	EXTERIOR FURNISHINGS	This includes the addition of such exterior furnishings as benches, planters, etc.	EA	EA	Number of furnishings
		G204004	SECURITY STRUCTURES	This includes the construction or addition of security structures such as guard houses.	EA	EA	Number of security structures
		G204005	SIGNAGE	Signs displayed to convey direction or information such as building function or tenant except for signs included in G201004 and G202004.	EA	EA	Number of signs
		G204006	FOUNTAINS & POOLS	This includes assemblies for swimming pools and decorative fountains.	EA	EA	Number of fountains or pools
		G204007	PLAYING FIELDS	Playing fields such as baseball or tennis courts as well as back stops, bleachers, and other playing field requirements are included.	EA	EA	Number of playing fields
		G204008	TERRACE AND PERIMETER WALLS		SY	M2	Area of wall
		G204009	FLAGPOLES		EA	EA	Number of flagpoles
		G204090	OTHER SITE IMPROVEMENTS	This includes any other miscellaneous structures, such as a car wash, banking system, and theatre equipment located on the site.	XX	XX	
		G2050	LANDSCAPING	Assemblies are included that improve the appearance of the site by planting, seeding, and sodding.	SY	M2	Area to be landscaped
		G205001	FINE GRADING & SOIL PREPARATION	Fine grading of the site by hand or machine is required to prepare the soil for planting, seeding, or sodding.	SY	M2	Area of site
		G205002	EROSION CONTROL MEASURES	Soil erosion or deterioration due to wind, rain or other factors can be controlled or remedied in different ways. This includes slope protection by planting or vegetation or grass and/or placement of manmade geotextiles.	SY	M2	Area of erosion
		G205003	TOPSOIL & PLANTING BEDS	Topsoil is placed to provide the nutritious soil bed which is required for plants or grass to grow.	SY	M2	Area of planting bed
		G205004	SEEDING, SPRIGGING AND SODDING	This includes the seeding, sodding, fertilizing, watering, and mowing for the grass required on site.	SY	M2	Area of site
		G205005	PLANTINGS	This includes the planting of trees, shrubs, and other vegetation for site beautification or improvement.	EA	EA	Number of plants
		G205006	PLANTERS	Planters are exterior decorative containers that contain plants or trees.	EA	EA	Number of planters
		G205007	IRRIGATION SYSTEMS	This includes the installation of underground irrigation systems required for watering of trees, shrubs, and grass or other vegetation.	SY	M2	Area of site to be watered
		G205090	OTHER LANDSCAPING	Landscaping not described by the assembly categories listed above.	XX	XX	
		G2060	AIRFIELD PAVING	Aircraft parking apron and runway paving.	SY	M2	Area of paving
		G206001	AIRFIELD PAVING CONSTRUCTION		SY	M2	Area of paving
		G206002	OTHER PAVING		SY	M2	Area of paving
		G206003	JOINTS AND ANCHORAGE		SY	M2	Area of paving
		G206004	NAVIGATION AIDS		LS	LS	
		G206005	AIRFIELD MARKINGS		LS	LS	

Final Combined Uniformat II / WBS 9/18/06, Revision 2

Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity	Definition
			G30	SITE CIVIL/MECHANICAL UTILITIES	EA	EA		Each utility
				Site mechanical utilities includes water supply, sanitary sewer, storm sewer, heating distribution, cooling distribution, fuel distribution, and other site mechanical utilities, such as industrial waste systems.				
			G3010	WATER SUPPLY	LF	M		Length of system
				This includes installation or construction of water distribution systems and facilities.				
			G301001	WELL SYSTEMS	EA	EA		Each system
				This includes all the components necessary to install a well, including drilling, installing casings, pumps, valves, etc.				
			G301002	POTABLE WATER DISTRIBUTION	LF	M		Length of system
				This includes construction and installation of underground piping, valve boxes, and valves.				
			G301003	POTABLE WATER STORAGE	GAL	GAL		Amount stored
				This includes construction and installation of tanks, both at grade and elevated.				
			G301004	FIRE PROTECTION WATER DISTRIBUTION	LF	M		Length of system
				This includes construction and installation of dedicated water piping for fire protection system only. This does not include potable water distribution systems that are used as a water source for fire protection systems.				
			G301005	FIRE PROTECTION WATER STORAGE	GAL	GAL		Amount stored
				This includes tanks on grade and elevated for storage of water for fire protection only.				
			G301006	NON-POTABLE WATER DISTRIBUTION	LF	M		Length of system
				This includes construction and installation of water distribution system not for consumption, such as irrigation or hydro-electric power generation and from reservoirs to treatment facilities.				
			G301007	PUMPING STATIONS	GPM	L/S		Operating capacity
				This includes construction and installation of pumps, valves, and piping.				
			G301008	PACKAGED WATER TREATMENT PLANTS	GPD	GPD		Operating capacity
				This includes installation of completely assembled water treatment plants.				
			G301090	OTHER WATER SUPPLY	XX	XX		
				Water supply not described by the assembly categories listed above.				
			G3020	SANITARY SEWER	LF	M		Length of system
				This includes all assemblies necessary for sewage collection systems.				
			G302001	SANITARY SEWER PIPING	LF	M		Length of piping
				This includes installation of piping for collection of sewage.				
			G302002	SANITARY SEWER MANHOLES & CLEANOUTS	EA	EA		Each manhole or cleanout
				This includes construction and installation of manholes and cleanouts in sewage collection systems.				
			G302003	LIFT STATIONS AND PUMPING STATIONS	GPM	L/S		Operating capacity
				This includes construction and installation of piping and equipment in lift stations.				
			G302004	PACKAGED SANITARY SEWER TREATMENT PLANTS	GPD	L/S		Operating capacity
				This includes installation of pre-assembled sewage treatment plants.				
			G302005	SEPTIC TANKS	GAL	L		Volume of tank
				This includes installation of prefabricated septic tanks or the construction of septic tanks.				
			G302006	DRAIN FIELDS	LF	M		Length of field
				This includes installation of drain fields for disposal of effluent from septic tanks.				
			G302090	OTHER SANITARY SEWER	XX	XX		
				Sanitary sewers not described by the assembly categories listed above.				
			G3030	STORM SEWER	LF	M		Length of system
				This includes construction of storm water collection systems.				
			G303001	STORM SEWER PIPING	LF	M		Length of piping
				This includes installation of piping for collection of storm water.				
			G303002	STORM SEWER STRUCTURES	EA	EA		Each manhole or cleanout
				This includes construction and installation of manholes for storm water collection systems.				
			G303003	LIFT STATIONS	GPM	L/S		Operating capacity
				This includes construction of lift stations including piping, pumps, and controls.				
			G303004	CULVERTS	LF	M		Length of culvert
				This includes construction and installation of culverts for storm water systems.				
			G303005	HEADWALLS	EA	EA		Each structure
				This includes construction of headwalls and installation of catch basins for storm water systems.				
			G303006	EROSION & SEDIMENT CONTROL MEASURES	SY	M2		Area to control
				This includes construction to control erosion due to runoff.				
			G303007	STORMWATER MANAGEMENT	GAL	GAL		Volume of collection area
			G303090	OTHER STORM SEWER	XX	XX		
				Storm sewers not described by the assembly categories listed above.				
			G3040	HEATING DISTRIBUTION	LF	M		Length of system
				This includes overhead and underground hot water, steam, and condensate piping.				
			G304001	OVERHEAD HOT WATER SYSTEMS	LF	M		Length of system
				This includes installation of overhead hot water supply and return piping.				
			G304002	OVERHEAD STEAM SYSTEMS	LF	M		Length of system
				This includes installation of overhead steam supply and condensate return piping.				
			G304003	UNDERGROUND HOT WATER SYSTEMS	LF	M		Length of system
				This includes installation of underground hot water supply and return piping.				
			G304004	UNDERGROUND STEAM DISTRIBUTION SYSTEMS	LF	M		Length of system
				This includes installation of underground steam supply and condensate return piping.				
			G304005	REINFORCED CONCRETE MANHOLES & VALVE BOXES	EA	EA		Each structure
				This includes installation of prefabricated trench boxes for shoring during installation of piping.				
			G304006	PUMPING STATIONS	EA	EA		Each pumping station
			G304090	OTHER HEATING DISTRIBUTION	XX	XX		
				Heating distribution not described by the assembly categories listed above.				
			G3050	COOLING DISTRIBUTION	LF	M		Length of system
				This includes construction and installation of chilled water distribution systems.				
			G305001	OVERHEAD COOLING SYSTEMS	LF	M		Length of system
				This includes installation of overhead chilled water supply and return piping.				
			G305002	UNDERGROUND COOLING SYSTEMS	LF	M		Length of system
				This includes installation of underground chilled water supply and return piping.				
			G305003	TRENCHBOXES	LF	M		Length of trench
				This includes installation of prefabricated trench boxes for shoring during installation of piping.				
			G305004	WELLS FOR COOLING	EA	EA		Each well
			G305005	PUMPING STATIONS	EA	EA		Each pumping station
			G305006	ON-SITE COOLING TOWERS	EA	EA		Each cooling tower
			G305090	OTHER COOLING DISTRIBUTION	XX	XX		
				Cooling distribution not described by the assembly categories listed above.				

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
		G3060	FUEL DISTRIBUTION		GAL	L	Volume of storage tank
				This includes installation of piping and storage tanks for building and aviation fuels.			
		G306001	LIQUID FUEL DISTRIBUTION PIPING SYSTEM		LF	M	Length of piping
				This includes installation of piping for fuel and oil distribution. This includes equipment related to piping, system leak detection and tightness testing.			
		G306002	AVIATION FUEL DISTRIBUTION PIPING SYSTEM		LF	M	Length of piping
				This includes installation of piping for aviation fuel distribution and equipment related to the piping. This also includes system leak detection and tightness testing.			
		G306003	LIQUID FUEL STORAGE TANKS		GAL	L	Volume of storage tank
				This includes installation of buried or above ground fuel tanks relating to liquid fuel or aviation systems.			
		G306004	LIQUID FUEL DISPENSING EQUIPMENT		EA	EA	Each piece of equipment
				This includes equipment relating to liquid fuel and aviation systems.			
		G306005	LIQUID FUEL SYSTEM TRENCHBOXES		LF	M	Length of trench
				This includes installation of prefabricated trench boxes for shoring during installation of piping.			
		G306006	GAS DISTRIBUTION PIPING (NATURAL AND PROPANE)		LF	M	Length of piping
				This includes piping for distribution of natural or propane gas.			
		G306007	GAS STORAGE TANKS		GAL	L	Volume of storage tank
				This includes installation of tanks for natural or propane gas.			
		G306008	GAS SYSTEM TRENCHBOXES		LF	M	Length of trench
				This includes installation of prefabricated trench boxes for shoring during installation of piping.			
		G306009	OTHER GAS DISTRIBUTION		XX	XX	
				Gas distribution not described by the assembly categories listed above.			
		G306090	OTHER FUEL DISTRIBUTION		XX	XX	
				Fuel not described by the assembly categories listed above.			
		G3090	OTHER SITE MECHANICAL UTILITIES		LF	M	Length of system
				This includes all systems for collection of contaminated waste requiring special treatment.			
		G309001	INDUSTRIAL WASTE PIPE		LF	M	Length of piping
				This includes construction and installation of all piping for collection of industrial waste.			
		G309002	INDUSTRIAL WASTE MANHOLES & CLEANOUTS		EA	EA	Each manhole or cleanout
				This includes construction of manholes and cleanouts for industrial waste.			
		G309003	INDUSTRIAL WASTE LIFT STATIONS		GPM	L/S	Operating capacity
				This includes construction and installation of industrial waste lift stations and equipment.			
		G309004	INDUSTRIAL WASTE HOLDING TANKS & SEPARATORS		EA	EA	Number of tanks
				This includes construction or installation of special tanks such as silver recovery tanks or separators such as oil water separators.			
		G309005	INDUSTRIAL WASTE TRENCHBOXES		LF	M	Length of trench
				This includes installation of prefabricated trench boxes for shoring during installation of piping.			
		G309090	OTHER INDUSTRIAL WASTE		XX	XX	
				Industrial waste not described by the assembly categories listed above, such as petroleum oil and lubricant distribution systems.			
		G40	SITE ELECTRICAL UTILITIES		EA	EA	Systems total
				This system includes exterior electrical systems and equipment including substations, overhead and underground distribution systems, metering systems and equipment, exterior lighting, lightning protection systems, communication and alarm systems, and cathodic protection.			
		G4010	ELECTRICAL DISTRIBUTION		KVA	KVA	Total rated capacity
				Electrical distribution includes the following: substations; transformers; switches, controls and devices; overhead electric conductors; towers, poles, crossarms and insulators; underground electric conductors; ductbanks, manholes, handholes and raceways; grounding systems; and metering.			
		G401001	SUBSTATIONS		KVA	KVA	Total rated capacity
				This system includes substation equipment and materials required from the primary power source.			
		G401002	TRANSFORMERS		KVA	KVA	Total rated capacity
				Electrical power transformers used in conjunction with electrical substations. May include pole/tower or pad-mounted transformers located outside the building.			
		G401003	SWITCHES, CONTROLS & DEVICES		EA	EA	Number of separate components
				Includes all components of switchgear, voltage regulators and busbars used with electrical substations.			
		G401004	OVERHEAD ELECTRIC CONDUCTORS		LF	M	Length of conductor
				Includes conductors used in conjunction with substations.			
		G401005	TOWERS, POLES, CROSSARMS & INSULATORS		EA	EA	Number of towers and poles
				Towers, poles, crossarms, and insulators used in conjunction with substations.			
		G401006	UNDERGROUND ELECTRIC CONDUCTORS		LF	M	Length of conductor
				Includes conductors used in conjunction with substations.			
		G401007	DUCTBANKS, MANHOLES, HANDHOLES & RACEWAYS		EA	EA	Number of ductbanks and access points
				Components used in conjunction with electrical substations.			
		G401008	GROUNDING SYSTEMS		EA	EA	Number of systems
				Grounding systems used in conjunction with substations. Grounding systems for buildings, power distribution, and other electrical systems and subsystems are included with those other systems.			
		G401009	METERING		EA	EA	Number of meters
				Includes components used in conjunction with exterior electrical distribution.			
		G401010	CATHODIC PROTECTION		EA	EA	Each system
				Includes a system used in conjunction with exterior electrical distribution for corrosion control.			
		G401011	EQUIPMENT REQUIREMENTS FOR COASTAL AND HIGH HUMIDITY AREAS		XX	XX	
		G401090	OTHER ELECTRIC TRANSMISSION & DISTRIBUTION		XX	XX	
				Substations not described by the assembly categories listed above.			
		G4020	SITE LIGHTING		LF	M	Length of distribution
				Exterior electrical lighting systems including conductors, switches, controls and other devices, supporting structures, grounding systems, and all other equipment required to support a lighting system.			
		G402001	EXTERIOR LIGHTING FIXTURES & CONTROLS		EA	EA	Number of fixtures
				Includes fixtures, controls, and all components used in conjunction with exterior lighting.			
		G402002	SPECIAL SECURITY LIGHTING SYSTEMS		EA	EA	Number of systems
				Includes all components used for special security lighting.			
		G402003	OTHER AREA LIGHTING		EA	EA	Number of fixtures
				Includes components and equipment used for area lighting.			

Final Combined Uniformat II / WBS 9/18/06, Revision 2

Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
			G402004	LIGHTING POLES Poles used to support lighting fixtures and support equipment.	EA	EA	Number of towers and poles
			G402005	UNDERGROUND ELECTRIC CONDUCTORS Includes conductors for underground electrical distribution to lighting systems.	LF	M	Length of conductor
			G402006	DUCTBANKS, MANHOLES & HANDHOLES Includes all components used in conjunction with exterior lighting.	EA	EA	points
			G402007	GROUNDING SYSTEMS Grounding systems used in conjunction with exterior lighting.	EA	EA	Number of systems
			G4030	SITE COMMUNICATION AND SECURITY	LF	M	Length of distribution
				This system includes cables, ductbanks, manholes, and all other equipment required to support exterior communication and alarm systems.			
			G403001	TELECOMMUNICATIONS SYSTEMS Includes all components, cables, and equipment used in conjunction with exterior telephone systems.	LF	M	Length of distribution
			G403002	CABLE TV SYSTEMS (CATV) Includes all components, cables, and equipment used in conjunction with exterior cable TV systems.	LF	M	Length of distribution
			G403003	CABLES & WIRING Includes cables, wiring, and equipment used in conjunction with exterior security systems.	LF	M	Length of conductor
			G403004	DUCTBANKS, MANHOLES & HANDHOLES Includes ductbank, manholes, and handholes used in conjunction with exterior security	EA	EA	Number of ductbanks and access points
			G403005	TOWERS, POLES & STANDS Includes towers, poles, stands, and equipment used in conjunction with exterior security systems.	EA	EA	Number of towers, poles and stands
			G403006	TV CAMERAS & MONITORS Includes cameras, monitors, and components used in conjunction with exterior security systems.	EA	EA	Number of cameras and monitors
			G403007	ELECTRONIC SECURITY SYSTEMS (ESS) Includes components and systems used in conjunction with exterior security systems.	EA	EA	Number of systems
			G403008	OTHER COMMUNICATION & ALARM Includes all components, cables, and equipment used in conjunction with other special communication and alarm systems not defined above.	XX	XX	
			G403009	GROUNDING SYSTEMS Includes grounding systems used in conjunction with exterior security systems.	EA	EA	Number of systems
			G403090	OTHER SECURITY SYSTEMS Includes all components and equipment used in conjunction with special security systems not defined above.	XX	XX	
			G4090	OTHER SITE ELECTRICAL UTILITIES	LF	M	Length of conductor
				This system includes alternate energy sources. This system also includes sacrificial anodes, induced current conductors, and components used in conjunction with cathodic protection.			
			G409001	SACRIFICIAL ANODE CATHODIC PROTECTION SYSTEM Includes all components required in conjunction with sacrificial anode system.	EA	EA	Number of anodes
			G409002	INDUCED CURRENT CATHODIC PROTECTION SYSTEM Includes conductors and termination required for cathodic protection.	LF	M	Length of conductor
			G409003	EMERGENCY POWER GENERATION	KVA	KVA	Total rated capacity
			G409090	OTHER CATHODIC PROTECTION Includes components and equipment used in conjunction with other cathodic protection systems not defined above.	XX	XX	
			G90	OTHER SITE CONSTRUCTION	LS	LS	
				Other site construction includes service and pedestrian tunnels, bridges, railroad spurs, and snow melting systems.			
			G9010	SERVICE AND PEDESTRIAN TUNNELS	XX	XX	
				This assembly includes service and pedestrian tunnels.			
			G901001	CONSTRUCTION OF SERVICE AND PEDESTRIAN TUNNELS This assembly includes construction of service and pedestrian tunnels.	LF	M	Length of tunnel
			G901002	PREFABRICATED SERVICE AND PEDESTRIAN TUNNELS This assembly includes prefabricated service and pedestrian tunnels.	LF	M	Length of tunnel
			G9090	OTHER SITE CONSTRUCTION	XX	XX	
				Other site construction includes bridges, railroad spurs and snow melting systems.			
			G909001	BRIDGES Bridges included here are typically small spans or overpasses that are not meant to be used to estimate spans over large bodies of water. Options exist for cast-in-place concrete T-beam, precast I-beam, precast box, concrete and steel composite, laminated timber deck bridge structures.	SY	M2	Area of structure
			G909002	RAILROAD SPURS Railroad assemblies exist for 110, 115, and 132 lb. tracks and ties. Turnouts, roadway crossings, derailleurs, stops, and bumpers are also included.	LF	M	Length of track
			G909003	SNOW MELTING SYSTEMS	EA	EA	Number of systems
			G909090	OTHER SPECIAL CONSTRUCTION Any special construction not covered in the above categories.	XX	XX	
			H10	WATERFRONT STRUCTURES	LS	LS	
				Waterfront Structures including wharves, piers, dolphins, trestles, and other structures and appurtenances necessary for the safe mooring of vessels and to support waterfront operations.			
			H1010	SUBSTRUCTURE	XX	XX	
				This assembly includes substructure components for waterfront structures, such as pile foundations, pile caps, quays, relieving platforms, revetments, seawalls, boat ramps, cut-off walls, firewalls, and hanging panels.			
			H101001	PILE FOUNDATIONS	VLF	VM	Length of piles
			H101002	PILE CAPS	XX	XX	
			H101003	QUAYS	XX	XX	
			H101004	RELIEVING PLATFORMS	XX	XX	
			H101005	REVETMENTS	XX	XX	
			H101006	SEAWALLS	XX	XX	
			H101007	BOAT RAMPS	XX	XX	
			H101008	CUT-OFF WALLS	XX	XX	
			H101009	GUARD POSTS AND RAILING	XX	XX	
			H101010	OTHER SUBSTRUCTURE COMPONENTS	XX	XX	
			H1020	SUPERSTRUCTURE	XX	XX	

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
				This assembly includes superstructure components for waterfront structures, such as beams and girders, columns, utility enclosures, and other features that support the operation deck area.			
			H102001	BEAMS AND GIRDERS	XX	XX	
			H102002	COLUMNS	XX	XX	
			H102003	UTILITY ENCLOSURES	XX	XX	
			H102004	OTHER SUPERSTRUCTURE ELEMENTS	XX	XX	
		H1030	DECK		XX	XX	
				This assembly includes the components for the deck, including elevated deck, on-grade deck, deck overlays, curbs and bullrails, mooring hardware foundation, high mast lighting foundations, utility mounds, expansion joints, guard post and railings, paint striping and other related features.			
			H103001	DECK	XX	XX	
			H103002	ON-GRADE SLAB	XX	XX	
			H103003	DECK OVERLAY	XX	XX	
			H103004	CURBS AND BULLRAILS	XX	XX	
			H103005	MOORING FOUNDATIONS	XX	XX	
			H103006	HIGH MAST LIGHTING FOUNDATIONS	XX	XX	
			H103007	UTILITY MOUNDS	XX	XX	
			H103008	EXPANSION JOINTS	XX	XX	
			H103009	GUARD POSTS AND RAILING	XX	XX	
			H103010	PAINT STRIPING	XX	XX	
			H103011	OTHER DECK COMPONENTS	XX	XX	
		H1040	MOORING AND BERTHING SYSTEM		XX	XX	
				This assembly includes the components for the mooring hardware and fendering systems, including foundations, anchor bolts, and support systems.			
			H104001	PRIMARY FENDER SYSTEM	XX	XX	
			H104002	SECONDARY FENDER SYSTEM	XX	XX	
			H104003	CORNER FENDER SYSTEM	XX	XX	
			H104004	DOLPHINS	XX	XX	
			H104005	MOORING HARDWARE	XX	XX	
			H104006	OTHER MOORING AND BERTHING COMPONENTS	XX	XX	
		H1050	REPAIR AND REHABILITATION		XX	XX	
		H1060	APPURTENANCES		LS	LS	
				This assembly includes the appurtenances such as handrails, brows, cable booms, floats, safety ladders, life rings, oil containment booms, and other similar features.			
		H20 GRAVING DRYDOCKS			LS	LS	
		H30 COASTAL PROTECTION			LS	LS	
				Coastal Protection System consists of all waterfront breakwaters, wave protection armor, slope protection, revetments, and other features necessary and required for the protection of waterfront facilities from damage by wave, tide and current.			
		H3010	WAVE PROTECTION		XX	XX	
				This assembly includes required wave protection features, such as breakwaters, wave protection armor for slope protection, revetment and scour protection.			
			H301001	WAVE PROTECTION ARMORS	XX	XX	
			H301002	BREAKWATERS	XX	XX	
		H3020	SLOPE PROTECTION		XX	XX	
				This assembly includes required slope protection features, such as revetment or embankment dikes.			
			H302001	ROCK REVETMENTS	XX	XX	
			H302002	GRANULAR FILL REVETMENTS	XX	XX	
			H302003	COMBINED ROCK AND GRANULAR FILL REVETMENTS	XX	XX	
		H40 NAVIGATION DREDGING AND RECLAMATION			LS	LS	
				Navigation Dredging and Reclamation System consists of all dredging of navigation channels, approaches, turning basins, and berthing areas near piers, wharves, dolphins, and reclamation as necessary to navigate the vessels to the berths and produce reclaimed land to support construction of the waterfront facilities.			
		H4010	DREDGING		XX	XX	
		H4020	DREDGING DISPOSAL		XX	XX	
			H402001	OCEAN DISPOSAL	XX	XX	
			H402002	NEW CONFINED DISPOSAL FACILITIES	XX	XX	
			H402003	EXISTING CONFINED DISPOSAL FACILITIES	XX	XX	
		H4030	RECLAMATION		XX	XX	
		H50 WATERFRONT UTILITIES			LS	LS	
				The Waterfront Utility System consists of civil/mechanical utilities, electrical utilities, and fire protection to be installed on waterfront structures			
		H5010	CIVIL/MECHANICAL UTILITIES		XX	XX	
			H501001	POTABLE WATER	XX	XX	
			H501002	SALTWATER	XX	XX	
			H501003	SANITARY SEWER	XX	XX	
			H501004	BILGE AND OILY WASTE	XX	XX	
			H501005	COMPRESSED AIR	XX	XX	
			H501006	STEAM	XX	XX	
			H501007	OTHER CIVIL/MECHANICAL UTILITIES	XX	XX	
			H501008	PIPE GUARDRAILS	XX	XX	
		H5020	ELECTRICAL UTILITIES		XX	XX	
			H502001	POWER DISTRIBUTION SYSTEM	XX	XX	
			H502002	TELECOMMUNICATION SYSTEM	XX	XX	
			H502003	LIGHTING SYSTEMS	XX	XX	
			H502004	LIGHTNING PROTECTION SYSTEM	XX	XX	
			H502005	POWER BOOMS	XX	XX	
			H502006	OTHER ELECTRICAL UTILITIES	XX	XX	
		H5030	FIRE PROTECTION AND SUPPRESSION		XX	XX	
			H503001	FIRE PROTECTION WATER DISTRIBUTION SYSTEM	XX	XX	
			H503002	FIRE ALARM	XX	XX	
		H60 WATERFRONT DEMOLITION			LS	LS	
		H6010	IN OR OVER-WATER DEMOLITION		XX	XX	

Final Combined Uniformat II / WBS 9/18/06, Revision 2							
Unf L1	Unf L2	Unf L3	WBS L4	Definition	E UOM	M UOM	Quantity Definition
		H6020	NON IN OR OVER-WATER DEMOLITION		XX	XX	
		H6030	HAZARDOUS COMPONENTS ABATEMENT		XX	XX	
		H70	WATERFRONT ATFP		LS	LS	
		H7010	WATERSIDE ATFP		XX	XX	
		H7020	LANDSIDE ATFP		XX	XX	
		Z10	GENERAL		LS	LS	
				The common or general requirements from the Performance Technical Specification Sections.			