






Image	Item	notes	for Landscape Architect: requirements for installation	✓
<p>BSI Supplied & Installed Items</p> <p><i>except as noted</i></p> <p><i>specific details based on product availability & site conditions</i></p>	<p><i>description & quantity</i></p>	<ul style="list-style-type: none"> teaching tools are installed by BSI after completion of OC construction in the fall requirements for installation in the next column are contractor supplied items to facilitate that installation 	<p>Note: All details to be indicated by LA on plans and in specs as required for contractor work</p> <p>Note: Confirm item locations with SY/OC Planning Committee</p>	
	<p>Wind Vane</p>	<p>brass directional & copper arrow with added yellow & red paint over bronze, exterior Krylon paint over all copper parts</p> <p>(optional add-on: 3 cup wind spinner)</p>	<p>contractor supplied and installed support</p> <p>requires mounting post: minimum 9' high; 6" x 6" timber (or 8" round post)</p> <p>reject if twisted or not plumb (typ) chamfer/soften all edges (typ)</p>	
	<p>Rain gauge (2)</p>	<p>removable / on post support</p>	<p>contractor supplied and installed support</p> <p>requires mounting post: 4' high; 4" x 4" sq., or round post, or other location as determined</p>	
	<p>Thermometer set (4 thermometers)</p>	<p>one thermometer for each side of pole - N,S,E,W - in order to provide different sun /shade orientations</p> <p>may be dispersed on several poles depending on site</p>	<p>contractor supplied and installed support</p> <p>requires mounting post: may also be on wind vane post, or one post of armature support minimum post height = 6' 6" x 6" square timber</p> <p>chamfer/soften all edges (typ)</p>	
	<p>Thermometer, large round</p>	<p>low to ground on student planting bed, in shade or on north side, near soil thermometer in view window</p>	<p>BSI will locate on side of planting bed structure</p>	
	<p>Sun dial</p>	<p>bronze with protective paint as needed</p> <p>Note: LA to locate mounting post on plan - locate in place with full unshaded mid-day sun if possible, provide access path or stable surface surround</p>	<p>contractor supplied and installed support</p> <p>requires mounting post: 28" high; 6" x 6" sq. post, or 8" round post.</p> <p>reject if twisted or not plumb (typ) chamfer/soften all edges (typ)</p>	



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	Pulley + rope w/ eye, snap rings & hook	(2) pulley for 3/8" rope with clip, and hook (nylon + gal .steel) 20 feet of rope provided	contractor supplied and installed support BSI will install attaching to cross bars of armature provide two 2" x 8" horizontals held between 6" x 6" posts, (or 8" round poles) locate the bottom of horizontals at 6'-9" above ground	
	Metal ruler (with meter & feet) Yellow/black painted Aluminum	mounted to upright pole or table with SS sq. drive screws (shop drill recessed mounting holes for ss screws)	BSI will locate on side of a work table, on an armature post, or storage structure	
	Outdoor Classroom welcome sign	(1) 6" x 18" sign on aluminum blank with UV protection by BSI	contractor supplied and installed support mounts on fence near gate, or on a 2" x 8" horizontal as part of entrance gate, or armature structure near the entrance	
	White board	(1) 24" x 36" mount horizontal round all corners aluminum backing with protective surface	contractor supplied and installed support requires mounting posts: two 6" x 6" posts, 36" on center, min. 6' high / or indicate intended location on fence, or wall / Locate to be visible from the main student gathering area	
	Site Map with areas; elements; and indicating selected plants and planted areas	Note: 24" x 36" site map sign provided by Landscape Architect (UV protected color print on aluminum backing) Note: layout map for logical spatial orientation with consideration of how it will be seen mounted on site	contractor supplied and installed support see notes above for mounting whiteboard, or locate on other LA designed support	
	Sample materials (mounted to armature structure)	steel, galvanized steel, aluminum, copper, assorted metal fasteners, flush nails and screws	contractor supplied and installed support requires one mounting post minimum 6' high 6" x 6" square post may be one of the support posts for the armature chamfer/soften all edges (typ)	
	Soil thermometer - installed in root view window	chart soil temperature, compare to air temp. http://www.learner.org/jnorth/tm/tulips/SoilTempDigDeep.html	BSI will install in student planting bed within root view window	

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	Barometer (middle school only)	9" dia / outside mount on piece of MDO board by BSI	contractor supplied and installed support provide minimum 6' high 6" x 6" sq. post could be one of the support posts for the armature	
	Flat rocks (to lift up and explore insect and worm habitats) 15-20 required disperse along side of pathways in soil	Note: Flat rocks to be supplied by contractor not BSI hand select small flat rocks that are easy and safe to pick up (size that is comfortable to lift up, not small enough to easily throw) 8" - 15" across, 2" - 3" thick	Note: contractor supplied and installed items LA to locate on plan, describe in specs, field locate at finish Note: see "Earth's materials" page for details on rock type variations	
	Storage bucket lg. (+ small bucket)	plastic, 5 gallon - for sand, peat moss, experiments... + quart size	BSI will provide and place in locked storage	
	Water hose standard type with nozzle	store in outdoor container (keep water key in same container)	BSI will provide and place in locked storage	
	Experiment trough (cement mixing trough) 2' x 3' (1)	for soil & water experiments	BSI will provide and place in locked storage	
	Storage & experiment bins w/ lid UV stable (2)	waterproof storage for tools, thermometers, books, etc...	BSI will provide and place in locked storage	
	Heavy duty brass combo lock for: gate (2)+ storage (1)	set with the common combination used for all BSI OCs	BSI to provide and install	
	Plant tags (set of 50)	blank aluminum to write on NOTE: plant ID by Landscape Architect as needed	BSI will provide and place in locked storage	
	Leaf cage w/ yard stick w/ sign	cylindrical wire frame to hold leaves & plant compost / locate in shade area, with access on at least 3 sides / provide durable surface surround to prevent mud (flat stones, or gravel)	contractor supplied firm surface as needed around leaf cage BSI to provide cage & install LA to indicate location on plan with committee consultation	
	Tools - (set of 6, student size)	shovel (2) leaf rake (2) gravel rake (2)	BSI will provide and place in locked storage	
	Watering can (1) given to school <i>(others provided by school)</i>	Collection of water from downspout or buckets	BSI will provide and place in locked storage	