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# **TG-2: Site and Lot Development**

Ch	apter 2 – Definit	ions			
ID	Name Company Entity Represented	Section Number And Requested Action	Proposed Change	Reason	Task Ac
317	Erin Ashley National Ready Mixed Concrete Association NRMCA	202 Definitions Revise as follows	HARDSCAPE. Stone, masonry, concrete, asphalt, wood <u>Asphalt, concrete, masonry,</u> stone, wood and other non-plant elements external to the building shell on a landscape.	Examples of hardscape (i.e., concrete, stone, etc.) should be written in alphabetical order as to not imply preference for first material in list.	
205	Gary Ehrlich NAHB NAHB	Add new as follows	<ul> <li>FLOOD HAZARD AREA. The greater of the following two areas:</li> <li>1. The area within a flood plain subject to a 1-percent or greater chance of flooding in any year.</li> <li>2. The area designated as a flood hazard area on a community's flood hazard map, or otherwise legally designated.</li> </ul>	Add a definition for "flood hazard area" to be used in connection with proposals for Chapter 4 and Chapter 5 on avoidance of flood hazard areas.	
210	glynn rountree NAHB NAHB	202 Definitions Add new as follows		LID nomenclature is confusing and used in different ways by different people. LID is expected to become much more prevelant in the U.S. because of new mandates or encouragement by the states and EPA as a way to improve water quality and other storm water issues. Providing a few examples of LID may help nonprofessionals to better understand what the term covers.	
394	Robert Hill NAHB Research Center NAHB Research Center	202 Definitions Revise as follows	Environmentally Sensitive Area. Areas within wetlands as defined by federal, state, or local regulations; areas of steep slopes; "Prime Farmland" as defined by the U.S. Department of Agriculture; areas of "critical habitat" for any federal or state threatened or endanged species, <u>areas defined by state or local jurisdiction as environmentally sensitive.</u>	The current definition would not recognize the Chesapeake Bay Critical area.	
395	Robert Hill NAHB Research Center NAHB Research Center	202 Definitions Revise as follows	Hardscape. Stone, masonry, concrete, asphalt, wood <u>(including elevated decks)</u> and other non-plant elements external to the building shelll on a landscape.	It was unclear if decks were intended to be included or not. The language should clarify this one way or the other.	
397	Robert Hill NAHB Research Center NAHB Research Center		Infill Site. Vacant or underutilized land that includes is serviced by two or more of the following: road, electrical power, sewer, or water and is bounded on at least 75% of the perimeter by previously developed areas.	The original definition was too encompasing; a rural field bounded on one side with a road and an electric power line woudl qualify. An additional definition of an infill lot should also be added.	
398	Robert Hill NAHB Research Center NAHB Research Center	202 Definitions Revise as follows	Infill lot. A vacant or underutilized lot that is serviced by two or more of the following: road, electrical power, sewer, or water and is bounded on at least 75% of the perimeter by previously developed areas or a lot that is part of an infill site provided the infill site is less than 25 acres.	The original definitions did not provide clear guidance on how to consider multiple lots within an infill site. These changes are intended to make the definition more specific and to allow credit for lots within an infill site. The taks gorup should make the final determination on how large of an infill site can be subdivided into lots and the lots still earn the infill lot points.	
408	Robert Hill NAHB Research Center NAHB Research Center	Revise as follows	Site. Any area of land that is or will be developed into two or more parcels <u>(lots)</u> of land intended for multiple ownership, uses, or structures and designed to be part of an integrated whole such as a residential subdivision, mixed-use development, or master planned community. Site, as defined, generally contains multiple lots. (also see Lot)	Bob to complete.	
63	Steve Hale Build Green NM Build Green NM		Infill Site. Vacant or underutilized land that includes two or more of the following: Road, electrical power, sewer or water. <u>Also an</u> <u>infill site shall be surrounded on at least two</u> <u>of four sides with existing development that</u> <u>is 5 years or older.</u>	Virtually any site could be considered "infill" by the existing definition.	
244	Steven Orlowski National Association of Home Builders NAHB		CONSTRUCTED WETLAND - A constructed wetland is an artificial wetland, marsh or swamp created as a new or restored habitat for native and migratory wildlife, for anthropogenic discharge such as wastewater, stormwater runoff, or sewage treatment, for land reclamation after mining, refineries, or other ecological disturbances such as required	Constructed Wetland is not a commonly understood term except among industry experts.	
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ID	Name Company Entity Represented	Section Number And Requested Action	Proposed Change	Reason	Task Ac
			mitigation for natural wetlands lost to a development.		
	Steven Orlowski National Association of Home Builders NAHB		INFILL LOT - is located in an area served by existing infrastructure and must include centralized water and sewer connections and the site boundaries should be 50% adjacent to development or active public parkland, is selected.	A better more specific definition of infill is needed. The existing definition for infill was too broad and could be applicable to sites not really considered "infill" by industry experts.	
		202 Definitions Add new as follows	LANDSCAPE PRACTICE, LANDSCAPING - refers to any activity that modifies the visible features of an area of land and may include living elements, such as flora or fauna; natural elements such as terrain shape and elevation, or bodies of water; human elements such as structures, buildings, fences or other material objects created and/or installed by humans; and abstract elements such as the weather and lighting conditions.		
			<b>LOT.</b> A single parcel of land generally containing one primary structure or use. Lot development, as defined, may include multiple ownership (such as with a condominium building) or multiple uses (such as with a mixed-use building). A lot is predominately represented by a single-family dwelling unit, a multi-family structure, or a retail, commercia or industrial mixed-use building also containing offices and shops. Lots maybe located in urban, suburban and rural/exurban locations. A lot can be located within a site. (also see SITE)	geographically a lot can exist was needed, as these deviations can greatly affect the ability of a developer or builder to accrue points. # 1	
	Steven Orlowski National Association of Home Builders NAHB		LOW-IMPACT DEVELOPMENT ( <u>LID</u> ). A storm water management approach that attempts to recreate the predevelopment of a site by using a lot level topography and landscape to deter storm water runoff and promote soil infiltration and recharge. <u>Sometimes referred to as "green infrastructure" or by other names, LID includes the use of</u> "green roofs," "rain gardens," tree boxes, and infiltration devices or other means to contain or slow storm water runoff from impervious surfaces and allow it to seep into the ground.		
	Steven Orlowski National Association of Home Builders NAHB	202 Definitions Add new as follows	RURAL/EXURBAN - Rural or Exurban locations would be areas where residential density is less than 2 dwelling units per acre and/or more than 10 miles from an MSA defined central city.	Geographic location of a site or lot within a region can affect the ability to accrue points differently. Therefore, there should be a point gradient based on geographic location, awarding more points for developers and Builders who build and develop in more difficult locations.	
	Steven Orlowski National Association of Home Builders NAHB		SOFTSCAPE - Softscape refers to the elements of a landscape that comprise live, horticultural elements. Softscaping can include, flowers, plants, shrubs, trees, flower beds, etc. The term softscape stands in contrast to hardscape which represents inanimate objects of a landscape such as pavers, stones, rocks, etc.	Softscape stands in contrast to the term "hardscape," which represents inanimate objects of a landscape such as pavers, stones, rocks, etc. The term softscape should be added, as the term "hardscape" is currently defined in the standard.	
			SUBURBAN – Suburban locations are located outside of central cities, generally developed after 1945, consist of large tracts of single-use developments and generally have a residential density of less than 7 dwelling units per acre.	Geographic location of a site or lot within a region can affect the ability to accrue points differently. Therefore, there should be a point gradient based on geographic location, awarding more points for developers and Builders who build and develop in more difficult locations.	
		202 Definitions Add new as follows	URBAN – Urban locations are located within central cities, generally developed prior to 1945, have a mix of land uses within 1/4 mile distance, and generally have a residential density greater than 6-7 dwelling units per acre.	Geographic location of a site or lot within a region can affect the ability to accrue points differently. Therefore, there should be a point gradient based on geographic location, awarding more points for developers and Builders who build and develop in more difficult locations.	
	Steven Orlowski National Association of Home Builders NAHB	Add new as follows	WASTEWATER - is any water that has been adversely affected in quality by anthropogenic influence. It comprises liquid waste discharged by domestic residences, commercial properties, industry, and/or agriculture and can encompass a wide range of potential contaminants and concentrations.	Wastewater is mentioned throughout the standard, not just in reference to vertical development highlighted in Chapters 4 and 5, but also vertical construction addressed in Chapters 6 -10. Therefore, a definition is warranted to provide clarification to the verification process.	
	Steven Orlowski National Association of Home Builders NAHB		WILDLIFE HABITAT/CORRIDOR - is an ecological or environmental area that is inhabited by a particular species of animal, plant or other type of organism. It is the natural environment in which an organism lives, or the physical environment that surrounds (influences and is utilized by) a species population.	In Chapters 4 and 5, points are awarded for developers who preserve wildlife habitats on site, as well as provide on-site amenities to encourage urban wildlife. Therefore, it is pertinent to provide a definition to this term to help clarify the verification process.	

#### Chapter 3 – Compliance Methods

	napler 5 – Compi	lance methous				
I	D Name	Section Number	Proposed Change	Reason	Task Group	Reason for TG action
	Company Entity Represented	And Requested Action			Action	
56			Site Design and Development. The threshold points required for the environmenta			
	-			retroactive certifications but going forward it makes more sense to only		
		Revise as follows		allow certification of new developments		
	NAHB Research					
	Center					

ask Group Action	Reason for TG action

## Chapter 4 – Site Design and Development

427	Robert Hill	Action			Act
	NAHB Research Center	400.0 Intent (Site Design and Development) Revise as follows	<b>400.0 Intent</b> . This section applies to land development for the eventual construction of buildings or additions thereto that contain dwelling units. The rating earned under Section 303 based on practices herein, applies only to the site as defined in Chapter 2. The buildings on the site earn their own performance level by complying with the provisions of Section 303, 304, or 305.5, as applicable. <u>However, practices marked with "Ch5.xx.xx</u> appropriate" automatically convey points for those practices in certified developments to the lot provided the builder does not do anything to preclued the intent of the practice.	There is significant confusion regarding which pracitces/points can convey from the development to the lot. It seems reasonable that the lot should get credit for the green practices done by the builder. This makes the lot more attractive to builders and thus more developers will follow the standard. But the appropirateness of the practices/points needs to be clearly defined by the task group and committee.	
257	National Association of Home Builders	401.1 Infill Site Delete and substitute as follows	<b>401.1 Infill site.</b> An infill site, is selected which is located in an area served by existing infrastructure and must include centralized water and sewer connections and the site boundaries should be 50% adjacent to development or active public parkland, is selected.	An expanded definition of infill is needed so that the criteria is applicable to a true infill site. The existing definition for infill was too broad and could be applicable to sites not really considered "infill" by industry experts.	
258	National Association of Home Builders	401.2 Greyfield Site Delete and substitute as follows	<ul> <li>401.2 Greyfield site. A greyfield site, and or a EPA recognized brownfield site, is selected.</li> <li>401.3 Brownfield site. A brownfield site, is selected.</li> </ul>	Greyfield sites and Brownfield sites are distinctly different entities and should be separated out as such in the criteria.	
111	City of Scottsdale	403.1 Natural Resources Revise as follows	Make line items (1) and (2) mandatory.	Local building departments already require sites plans to identify exisitng natural and manmade features. A natural resources inventory merely identifies the site's envornmental attribures. This is simple and straigh forward. As part of this inventory, priority site attributes and resources can be identified and made part of the site development plan. This is a prerequisite for beginning any green building project and should be mandatory for the National Green Building Standard.	
436	NAHB Research			Guidance is needed on how to calculate the percentage. The task group should determine a preference for volume or cost basis.	
437	Robert Hill NAHB Research Center NAHB Research Center	403.11 Environmentally Sensitive Areas Revise as follows	<ol> <li>Development does not impact an Eenvironmentally sensitive areas are avoided.</li> </ol>	The original text is unclear if the entire site must be void of any sensitive areas or if the site can include sensitive area but the development activity must not impact these areas.	
438		403.11 Environmentally Sensitive Areas Revise as follows	(2) Compromised environmentally sensitive areas are mitigated or restored <u>beyond any</u> government mandated mitigation.	Some guidance should be provided as to how much restoration/mitigation is needed to meet the intent of this practice. Perhaps stating a percentage of the environmentally sensitive area on the site.	
153	Protection Agency	403.11 Environmentally Sensitive Areas Revise as follows	This section should be a mandatory requirement, not one that provides credits. (This proposed change is also being submitted for Section 503.8)	Locational considerations are fundamental to the definition of a green building. Moreover, the importance of environmentally sensitive areas to human health and the environment makes their protection essential in any standard that aims to promote increased environmental protection.	
	Protection Agency US Environmental Protection Agency	Environmentally Sensitive Areas Revise as follows	<ul> <li>(1) Environmentally sensitive areas are avoided.</li> <li>(2) Compromised environmentally sensitive areas are mitigated or restored.</li> <li>(3) Buildings are not erected, and landscape improvements are not conducted, on land that is undeveloped or that has been developed only for agricultural purposes, and that is within a 100-year floodplain.</li> </ul>	Locational considerations are fundamental to the definition of a green building. NAHB is notably weaker than other green building rating and certification systems on the issue of site sustainability, and in particular, in discouraging building on environmentally sensitive and valuable lands. NAHB has only one optional credit restricting building in sensitive areas, which nonetheless allows building if the area is to be mitigated or restored. With no specific requirements or definition for mitigation or restoration, nor with a means of enforcement for this provision, this practice is insufficient to guarantee protection of sensitive lands. This shortcoming is a major weakness in the standard. Sections 503.8 and 403.11 should be revised to correct this shortcoming.	
		Add new as follows	<ul> <li>(4) The lot [or site] is within one-quarter mile of developed residential land with an average density of at least 8 units per acre.</li> <li>(5) The lot [or site] is adjacent to existing development with pre-project connectivity of at</li> </ul>	The standard provides points for densely-built projects in sections 503.9 and 403.12, as well as in several innovative practices for subdivisions in 405. EPA supports these practices, but recommends that NAHB go further by incentivizing buildings or subdivisions to be built adjacent to densely-built areas as well. Page 8 of 137	

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			least 90 intersections/mile of any continuous segment equaling 25 percent of the project boundary. Areas excluded from the calculation shall be water bodies, parks larger than 1/2 acre, recreational facilities, public campuses (such as universities), airports, rail yards, areas preserved from development by codified law or prerequisites of the rating system, and land that cannot be developed due to a unique topographic or geologic condition (such as steep slopes). Street rights-of-way may not be excluded.		
439	Robert Hill NAHB Research Center NAHB Research Center	403.13 Mixed-use Development Revise as follows	Mixed-use development is incorporated.	Can adjacent mixed use also qualify here?	
271	Steven Orlowski National Association of Home Builders NAHB	403.13 Mixed-use Development Delete and substitute as follows	<b>403.13 405.8 Mixed-Use Development</b> Mixed-use development is incorporated. <u>Sites 20</u> acres or less in size with boundaries adjacent to a minimum of two uses containing retail, services and employment may achieve the mixed-use points, given that a pedestrian network of sidewalks, pathways or plazas exist that connect a majority of lots within the site with the adjacent non-residential uses.	Single uses, such as single-family residential, if designed properly can use adjacent, existing nonresidential uses to help build an overall mixed-use environment. Developers who design with this objective, within the proposed parameters, should be awarded points under this category.	
428	Robert Hill NAHB Research Center NAHB Research Center	403.2 Building Orientation Revise as follows	<b>403.2 Building orientation.</b> A minimum of 75 percent of the building sites are designed with the longer dimension of the structure to face within 20 degrees of south <u>and appropriate</u> covenants are included requiring builders to construct buildings which take advantage of that orientation.	The benefit of site orinetaiton will only be realized if builders are required to take advantage of it.	
272	Steven Orlowski National Association of Home Builders NAHB	403.2 Building Orientation Delete and substitute as follows	403.2 Building orientation. A minimum of 75 percent of the building sites are designed with the longer dimension of the structure to face within 20 degrees of south.       6         405.9 Site Design for Climate Conditions and Energy Efficiency.       1) Solar Orientation – A minimum of 75 percent of the building lotswithin the site are designed with the longer dimension of structure to face within 20 degrees of south.       6         (1) Solar Orientation – A minimum of 75 percent of the building lotswithin the site are designed with the longer dimension of structure to face within 20 degrees of south.       7         (2) Tree Plantings –       a. Plant Deciduous Trees to the east and west of a lot(s) to create shade.       6         b. Plant evergreens to the north and west to block winter winds.       6       7         c. Avoid plantings to the south.       7       7         (3) Heat Island Mitigation – The following is provided through site design in all common areas in the community site plan:       6         (a) Shading of hardscaping: Shade is provided from existing or new vegetation (within five) years or from trellises or similar structures. Shade of hardscaping to be measured at summer solstice at noon.       7         (b) Light colored hardscaping: Horizontal hardscaping materials are installed with a solar reflectance index of 29 or greater.       7         (c) The use of open grid paving systems and open-graded aggregate systems that reduce hardscape.       6         (d) Common area buildings, such a club houses and maintenance facilities, utilize light colored roofing, high reflectivity,	Consolidating all the criteria that relates to climate and energy into one section. Additionally, have added several criteria related to climate and energy efficiency that can be carried out on the lot or site by a builder or developer, and can also be done relatively easily and will have a credible green effect.	

		<b>TG-2</b>
k Group Action	Reason for TG action	

ID	Name Company	Section Number And Requested	Proposed Change	Reason	Task Ad
	Entity Represented	Action			
			private and public rights-of-way.		
			(5) Alternative Energy Sources – Dedicating a common area within a community site plan		
			for the installation of an alternative energy facility that would generate electricity for the community. An alternative energy facility may generate electricity using solar, wind or hydro		
			technologies.	2	
429	NAHB Research	403.3 Slope Disturbance Revise as follows	Slope disturbance. [BH1] Slope disturbance is minimized by one or more of the following: (Points awarded only if there are developable steep slopes in the project area.)	We receive a number of questions regarding why a developer should be able to get up to 19 points just because the site has steep slopes when another developer may choose a flat site in order to avoid the adverse impact of slopes. Recognizing some credit for choosing a flat site would reduce this concern. The task group/committee should decide on the point value as well as any qualifications as to how much	
			<ul> <li>(1) <u>The site has a slope of greater than 25% and all or a percentage of development</u> on steep slopes is avoided.</li> <li>(a) less than 25 percent</li> <li>(b) 25 percent to 75 percent</li> <li>(c) greater than 75 percent</li> </ul> (2) <u>The site has a slope of greater than 25% and Hydrological/soil stability study for steep slopes is completed and used to guide the design of all buildings on the site.</u>	of the site must have a steep slope to earn points for this practice. It may also be worth considering merging this practice with 403.11	
			<ul> <li>(3) <u>The site has a slope of greater than 25% and All or a percentage of roads are aligned with natural topography to reduce cut and fill.</u> <ul> <li>(a) less than 25 percent</li> <li>(b) 25 percent to 75 percent</li> <li>(c) greater than 75 percent</li> </ul> </li> <li>(4) <u>The site has a slope of greater than 25% and Long-term erosion effects are reduced by the use of terracing, retaining walls, landscaping, and restabilization techniques.</u> <ul> <li>(5) The site has not slopes greater than 25%</li> <li>10 points</li> </ul> </li> </ul>		
	City of Scottsdale City of Scottsdale	403.4 Soil Disturbance and Erosion Revise as follows	Make line items (1) and (3) mandatory.	Soil exposed by construction activities is especially vulnerable to erosion. Soil erosion contributes to stormwater run-off pollutants and air borne particulates that make up air pollution. Most city and county authorities require a Stormwater Pollution Prevention Plan to minimize stormwater pollutant runoff. Based on the site inventory and an established site plan, it is simple to identify the limits of clearing and grading. Most jurisdictions already require a grading and drainage plan as part of civil engineering and building permit requirements. This process has long been established in the engineering and regulatory process around the country. This should be a prerequisite and therefore mandatory for the National Green Building Standard.	
216	National Association of Home Builders	403.4 Soil Disturbance and Erosion Add new as follows	<b>403.4 Soil disturbance and erosion.</b> Soil disturbance and erosion are minimized by one or more of the following: (also see Section 404)	Proposed language will greater flexibility and options for soil erosion and sediment. It is important that all contractors and subcontractors are aware of alternatives to protect against wind or water erosion.	
			(1) Construction activities are scheduled to minimize length of 4 time that soils are exposed.		
			<ul> <li>(2) Utilities are installed by alternate means such as directional boring in lieu of open-cut trenching. Shared easements or common utility trenches are utilized to minimize earth disturbance. Low ground pressure equipment or temporary</li> </ul>		

				<b>TG-2</b>
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			<ul> <li>(3) Limits of clearing and grading are demarcated in the plan</li> <li>(4) Limit the soil disturbance to 10 percent of the total acrea the project or 10 acres, whichever is greater</li> </ul>	n. <b>4</b>			
			(5) Soil disturbances are properly stabilized within fourteer days (7 days on steep slopes) after construction active completed for any portion of the project				
	Anthony Floyd City of Scottsdale City of Scottsdale	403.5 Storm Water Management Revise as follows	Make line item (2) mandatory.			Building permit authorities already require site surveys along with a proposed site plan and grading/drainage plan. Most city, town and county authorities have master stormwater surveys and plans to ensure public infrastructure and development will not adversely affect regional drainage paths. This process has long been established in the engineering and regulatory process around the country. A site stormwater management plan should be a prerequisite and therefore mandatory for the National Green Building Standard.	
	Robert Hill NAHB Research Center NAHB Research Center	403.5 Storm Water Management Add new as follows	construction on the development.	??poi	<u>nts</u>	The current text is not clear regarding managing storm water during or after construction is complete. It seem reasonable to award points for proper management during construction.	
	Robert Hill NAHB Research Center NAHB Research Center	Management Revise as follows	(3) Permeable materials are selected/specified for <u>common are</u> areas, walkways and patios.			the developer or if is should also be required of any buildings on the lots in the development.	
	Steven Orlowski National Association of Home Builders NAHB	403.5 Storm Water Management Add new as follows	<b>403.5 Storm water management.</b> Storm water is managed the following low-impact development techniques:	using one or mo	e of	Urban stream syndrome is a result of storm water management that focuses primarily on reducing storm water flows and velocity, adding an optional requirement for nutrient reduction furthers the commitment of the builder to reduce pollution through proper best management practice selection.	
			<ul> <li>(1) Natural water and drainage features are preserved and u</li> <li>6</li> </ul>	used.			
			(2) A storm water management plan is developed to minimize concentrated flows and simulate flows found in natural hydrology by the use of vegetative swales, French drains, wetlands, drywells, rain gardens, and similar features.	6			
			<ul> <li>(3) Permeable materials are selected/specified for roads, driveways, parking areas, walkways, and patios.</li> <li>(a) less than 25 percent</li> <li>(b) 25 percent to 75 percent</li> </ul>	1 3			
			(c) greater than 75 percent (4) Storm water management features/structures should reduction of nitrogen and phosphorus	5 be designed for	<u>the</u>		
			(a) less than 15 percent reduction				

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Task Group Action	Reason for TG action	

ID	Name Company Entity Represented	Section Number And Requested Action	Proposed Change	Reason	Task Act
			1       1         (b)       15 percent to 50 percent reduction         3       3         (c)       greater than 50 percent reduction         5		
	US Environmental	Management	Option 1: Stormwater management practices that manage rainfall on-site and prevent the off-site discharge from all storms up to and including the volume of the 95th percentile storm event. Maintain predevelopment (natural) runoff temperatures. Option 2: Conduct a hydrologic analysis that results in the design of a stormwater management system that maintains the pre-development (stable, natural) runoff hydrology of the site throughout the development or redevelopment process. Post construction runoff rate volume duration, and temperature shall not exceed predevelopment rates.	The standard's practice on stormwater management is commendable for encouraging the use of low-impact development techniques. However, the practice does not go far enough to ensure that buildings do not have an overly harmful impact on the hydrology of the surrounding area. This section can be strengthened through the development of several additional practices. In place of or in addition to the existing, relatively prescriptive measures in 503.4 and 403.5, EPA recommends a stormwater management practice focusing more on outcomes.	
	US Environmental Protection Agency US Environmental Protection Agency	Management Add new as follows		In support of the requirements that EPA suggested in a prior comment (ID# 166), we we recommend the above means of verification.	
	Klein Building Quality / Affiliated International Management selves	Plan Revise as follows		This section assumes that no turf means lower water use. Probably true in many cases, but we can probably find a case where really low water turf, (eg buffalo grass) in some large percentage of area would use less water than some smaller or equal percentage of other plantings. Consider creating a list of low-water plants that are treated like almost like no-water, or at least low water.	
432	NAHB Research	403.6 Landscape Plan Revise as follows		The current text is not clear if this is to apply only to areas finished by the developer or if is should also be required of any buildings on the lots in the development.	
	NAHB Research	403.6 Landscape Plan Revise as follows	pesticides and fertilizers is developed.	The current text is not clear if this is to apply only to areas finished by the developer or if is should also be required of any buildings on the lots in the development.	
	NAHB Research Center NAHB Research Center	Plan Revise as follows	are not limited to, one or more of the following:	considered but this leaves open the question of how many points to award and does that mean other options are no longer available. Deleting other options makes nationwide application of the standard more consistent. It is also suggested that the task group consider adding clarification as to the extent of the practice that must be implemented to meet the practice. For example, (3) "Turf grass species, other vegetation, and trees". How many tress, how much other, does all the turf need to be native, and are these points appropriate for small townhouse lots that may not have any landscape are but a small flower bed in front.	
262	National Association	Plan		These are additional practices that are common among industry experts and recognized as being "green." This will afford builders and developers to achieve additional points by practicing some relatively easy yet very effective green practices.	
			(13) Greywater irrigation systems are used to water common areas. Greywater to be used for greywater irrigation shall conform to all criteria within Section 802.1.		
			(14) Cisterns, rain barrels and similar tanks are structures designed to intercept and store		

	Т	<b>G-2</b>
k Group Action	Reason for TG action	
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ID	Name Company Entity Represented	Section Number And Requested Action	Proposed Change	Reason	Task C Acti
			runoff from rooftops. These systems may be above or below ground, and they may drain by gravity or be pumped. Stored water may be slowly released to a pervious area, and used for irrigation of lawn, trees and gardens located in common areas. X percent of site area must be irrigated by these means and demonstrated on the site plan.		
172	Susan Gitlin US Environmental Protection Agency US Environmental Protection Agency	403.6 Landscape Plan Delete and substitute as follows	<ul> <li>(3) The percentage of all turf areas are limited as part of the landscaping:</li> <li>(a) 0 percent</li> <li>(b) greater than 0 percent to less than 25 20 percent</li> <li>(c) 25 20 percent to less than 40 50 percent</li> <li>(d) 50 40 percent to 75 60 percent</li> </ul>	EPA supports the inclusion of a practice restricting turf areas in landscaping, but the minimum target of 75 percent of all landscaping is too low. We recommend that the minimum instead be set at 60 percent, with one additional point awarded for every further 20 percent reduction.	
174	Susan Gitlin US Environmental Protection Agency US Environmental Protection Agency	403.6 Landscape Plan Revise as follows	(9) An integrated pest management plan to minimize chemical use in pesticides and fertilizers is developed. An Integrated Pest Management plan is developed, implemented, and maintained that addresses both indoor and outdoor pest control. The plan must include the EPA's Pesticide Environmental Stewardship Program four tiered approach to pest management:	The IPM component of the standard's landscape plan (503.5.8; 403.6.9) can be improved in two main ways. First, NAHB should use more specific language to ensure that the IPM plan has a meaningful environmental impact. Secondly, the practice should require the use of pest control operators who are certified in IPM practices. We suggest the above language instead of the standard's current language on IPM.	
			<ol> <li>Set action thresholds. Before taking any pest control action, IPM first sets an action threshold, the point at which pest populations or environmental conditions indicate that pest control action must be taken to avert a nuisance, health hazard, or economic threat.</li> <li>Monitor and Identify Pests. IPM programs monitor and identify pests and the most</li> </ol>		
			appropriate course of action for a particular pest chosen. Monitoring and pest identification ensures that appropriate actions are taken. This could include some combination of prevention and control.		
			3) <b>Prevention.</b> The first line of defense in any IPM program is the prevention of conditions in or around a building or in an orchard that attract pests – sources of food, water, and shelter. IPM service providers use practices to prevent pests including, but not limited to:		
			<ul> <li>a. Customer education including materials for non-English speakers and those with difficulty reading.</li> <li>b. Browiding customers with information about past behavior and conditional and that</li> </ul>		
			b. Providing customers with information about pest behavior and conditions, and that allow pests access to the site, food, water, and habitat, so that the customer can understand and participate in the pest management process;		
			c. Irrigation practices, the treatment or removal of plants attractive to pests, and physical changes to reduce pest access to structures;		
			d. Removal of pest habitat, sources of food and water, and breeding areas - keeping premises free of trash and overgrown vegetation, and diverting water away from a building or landscaping to avoid standing water;		
			e. Prevention of access to structures - sealing areas where pests enter the buildings (weatherization).		

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			4) Management. Integration of Multiple Management Strategies and Tools		I
			A variety of pest control strategies and tools are integrated into a comprehensive program to manage the pest. If identification, monitoring, and action thresholds indicate that pest management is required, and preventive methods are no longer effective or viable, management methods can be and should be employed. Management strategies may include, but are not limited to, the following:		1
			a. Mechanical or physical controls including, but not limited to, traps, vacuuming, steam cleaning, or physical barriers;		I
			b. Biological controls including the use of predators, parasitoids, or pathogens to control the pest; and,		I
			c. If preventive measures along with the practices in paragraphs 'a' and 'b' directly above are insufficient to prevent or control pests, chemical controls may be used.		I
			Note: Under an IPM program, management methods are evaluated based on effectiveness and relative risk. Those methods that are found to both be the most effective and pose the lowest risk are selected first. IPM combines two central methods for reduced-risk pest control:		l
			a. Least Toxic Pest Management Options. These include use of physical controls, such as trapping, vacuuming, and steam cleaning.		I
			b. Pesticides		1
			Pest management is a group activity from the prevention and monitoring phase through the chemical usage decision. All stakeholders should be involved in the decision to use chemicals. For structural situations, this includes the IPM coordinator, pest management professionals, building managers, cleaning staff, etc. In agricultural situations, this includes the crop consultant/scout, grower, and, when appropriate, food processor.		1
			Pest management plans should dictate action thresholds and a decision-making process for actions including pesticide selection. Universal notification (advance notice of not less than 72 hours under normal conditions and 24 hours in emergencies before a pesticide, other than a least-toxic pesticide, is applied in a building or on surrounding grounds that the building management maintains). Define emergency conditions. There are best management practices to follow if pesticides are to be used:		1
			read the label first,		1
			choose the right chemical for a particular pest, and		1
			have a clear understanding of the proper application rate and method – misuse can harm not only your health but also the environment.		I
			When a chemical control method is required within an IPM program, a biological pesticide should be considered first. Biopesticides are usually inherently less toxic than conventional pesticides and decompose quickly so they do not leave persistent chemical residues in the environment.		l
			Sometimes a conventional pesticide (synthetic materials that directly kill or inactivate a pest) may be needed for satisfactory pest control. Ideally, all pesticides are used in combination with other lower-risk non-chemical pest management practices. Even within conventional		

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			pesticides, there is a progression of best management practices:			
			Use baits and spot treatments are limit unnecessary exposu	ire to chemicals,		
			Apply pesticides only as directed by the label,			
			Notify customers prior to pesticide applications - ideally, a 2- applications in or around any building landscape or structure.	4 hour notice before for		
			In occupied structures, pest management professionals and must clearly explain to the building occupants how to maintain safe treated areas.			
			Hire pest management professionals certified by an EPA Pesticide Stewardship Program partner organization, such as the National Pe Association's Green Pro, IPM Institute's Green Shield, or other prog	est Management		
235	Thomas Stroud HPBA HPBA	403.6 Landscape Plan Add new as follows	403.6(8) On-site tree trimmings or stump grinding of trees are used to provide protective mulch during construct walking trails, and cleared trees are recycled as sawn lum biomass for Solid Fuel Burning Appliance as per Section 9 renewable energy.	tion or as a base for ber, pulp wood <u>or</u>	This is in support of the use of on-site renewable energy.	
434	Robert Hill NAHB Research Center NAHB Research Center	403.7 Wildlife Habitat Revise as follows	Measures are planned that will support wildlife habitat.		This could use some definition as what needs to be done (including to what extent) to meet the intent of this practice. Clarification is needed to distinguish what measures are needed for points in an urban setting compared to a rual setting.	
435	Robert Hill NAHB Research Center NAHB Research Center	403.9 Existing Buildings Revise as follows	Existing building(s) and structure(s) is/are preserved, reused, modil reuse or recycling of building materials.	fied, or disassembled for	Some guidance is needed to clarify the extent of preservation, reuse, etc. needed to qualify for this practice.	
183	Susan Gitlin US Environmental Protection Agency US Environmental Protection Agency	403.9 Existing Buildings Add new as follows	Remove and replace lead piping in water systems intended Replace existing drinking water plumbing materials that do r current health-based materials specifications, such as (but not only Install plumbing materials compatible with the drinking water without supplemental treatment under intended usage conditions, a unhealthy water to be drawn by consumers.	not meet or exceed ) NSF/ANSI 61. r inflow to the structure	These additional considerations when re-using existing building (to be occupied and used by humans or domesticated animals) should be added in order to protect drinking water quality and reduce the resources required for water treatment.	
			Operate the internal DW system to minimize adverse water microbial).	quality concerns (metals,		
219	Steven Orlowski National Association of Home Builders	404.3 Soil Disturbance and Erosion	<b>404.3 Soil disturbance and erosion.</b> On-site soil disturbance and erosion are minimized by one or more of the following:		Steep slopes have the greatest potential for erosion of soils and should be attended to in a more timely manner.	
	NAHB	Add new as follows	(1) Limits of clearing and grading are staked out prior to construction.	5		
			(2) "No disturbance" zones are created using fencing or flagging to protect vegetation and sensitive areas from construction vehicles, material storage, and washout.	4		
			(3) Sediment and erosion controls are installed and maintained.	5		
			<u> </u>			

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U	Name Company	Section Number And Requested	Proposed Change		Reason	Task Ac
	Entity Represented	Action	(4) Topsoil is stockpiled and covered with tarps, straw, mulch, chipped wood, vegetative cover, or other means capable of protecting it from erosion for later use to establish landscape plantings.	5		
			(5) Soil compaction from construction equipment is reduced by distributing the weight of the equipment over a larger area by laying lightweight geogrids, mulch, chipped wood, plywood, OSB (oriented strand board), metal plates, or other materials capable of weight distribution in the pathway of the equipment.	4		
			(6) Disturbed areas are stabilized within the EPA recommended 14-day period (7 days on steep sloes).	4		
			(7) Soil is improved with organic amendments and mulch.	4		
-	NAHB Research Center NAHB Research Center	404.4 Wildlife Habitat Revise as follows	(2) Open space is preserved as part of a wildlife corridor.		This probably needs a definition in Chapter 2.	
	NAHB Research Center NAHB Research Center	405.1 Driveways and Parking Areas Revise as follows	Driveways or parking areas are shared.		It seems that in a site development all common area driveways and parking areas would be considered as shared. This needs more clarification.	
	National Association of Home Builders		<b>405.1 Driveways and parking areas.</b> For attached or detached sind driveways or parking areas are shared. In a multi-unit project, parking exceed the local minimum requirements, <u>shared parking agreement</u> minimize parking spaces, and waivers are sought for reduced parking requirements.	ng capacity is not to sare utilized to	This is only applicable to single-family homes since most multi-family developments have shared driveways and parking areas to begin with. For multi-family and mixed useprojects, getting waivers from parking requirement if located near transit or shared parking agreements with neighboring uses can be an effective way to reduce parking areas, impervious surfaces and stormwater runoff.	
		405.3 Cluster Development Revise as follows	(1)		Why have (1) if there is no (2)?	
	National Association of Home Builders	405.3 Cluster Development Delete without substitution	<b>405.3 Cluster development.</b> Cluster development enables and enc design and development of land in such a manner as to preserve the qualities of the site and is implemented in accordance with the follow scenic qualities of the site are preserved by utilizing an alternative m configuration and design of lots, buildings and structures, roads, utili infrastructure, parks, and landscaping.	e natural and scenic ving: (1) Natural or nethod for the layout,	Consolidating this into one paragraph	
	Robert Hill NAHB Research Center NAHB Research Center	405.4 Zoning Revise as follows	(2) An increase in zoned use on <u>the</u> sites where environmental effe infrastructure is readily available and adequate, while providing for re <u>environmentally</u> sensitive <u>areas within the</u> sites.		The standard addresses one site at a time for land development. These changes clarify how to interpret this practice. It would be helpful to have some guidance on how much of an increase in zoned use is required to earn these points.	
	National Association	405.4 Zoning Delete without substitution	<b>405.4</b> <u>Innovative</u> Zoning <u>Techniques</u> . <u>Innovative zoning technique</u> accordance with the following Innovative zoning ordinances or local developed for permissible adjustments to population density, area, h space, mixed-use, or other provisions for the specific purpose of ope resource preservation or protection and/or mass transit usage. Othe techniques may be considered on a case-by-case basis. An increase in zoned use on sites where environmental effects are r	laws are used or height, <u>waiver</u> , open en space, natural r innovative zoning minimized and	Zoning in itself is not "innovative." This amendment seeks to clarify what apart from zoning is actually innovative. It also aids waivers from zoning requirements as an innovative technique	
			infrastructure is readily available and adequate, while providing for resensitive sites.	educed development on		

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270		405.4 Zoning Add new as follows	<ul> <li>405.4 (3)Community-based Amenities (e.g., parks, plazas, mixed-use, open space) are provided that promote higher density living beyond code requirements or promote walkability.</li> </ul>	It is unclear what is meant by "Beyond Code Requirement." The term promote walkability has been added as a green benefit of amenities.	
220		405.5 Wetlands Add new as follows	405.5       Wetlands. Constructed wetlands or other natural innovative wastewater or storm water treatment technologies are used.       7	Constructed wetlands can also be used to treat stormwater pollution through reductions in water flow, velocity and pollutants.	
445	Robert Hill NAHB Research Center NAHB Research Center	405.6 Mass Transit Revise as follows	A <u>ll residential lots in the</u> site <del>is</del> selected <u>are</u> within one-half mile (805 m) of pedestrian access to a mass transit system or within five miles of a mass transit station with available parking.	Criteria need to be established for determining the distance in the practice. For large site development some lots may be close enough while other lots are far away. The task group should decide it the distance should be measured from the closed community entrance, the closet boundary, the closest lot, the farthest lot, etc.	
267		405.6 Mass Transit Add new as follows	<ul> <li>(1) A site is selected with a boundary within one-half mile (805 m) of pedestrian access to a mass transit system or within five miles of a mass transit station with available parking.</li> <li>(3) Bicycle Parking. Bicycle parking and racks shall be indicated on the site plan and constructed for mixed-use and/or multi-family buildings.</li> <li>(4) Bike share programs. Bike sharing programs participate with the developer, and their facilities are planned for and constructed.</li> <li>(5) Car sharing programs. Car sharing programs participate with the developer, and their</li> </ul>	This section is about more than just public transportation, it also includes encouraging pedestrian and bicycle parking as well as carpooling and carsharing. Therefore the term "multi-modal " is more applicable. Additional examples of multi-modal activities have been added to this sub-section.	
162	0,	405.6 Mass Transit Delete and substitute as follows	<ul> <li>facilities are planned for an constructed.</li> <li>405.6 Mass transit access is provided in accordance with one or more of the following:</li> <li>(1) A site is selected within one-quarter mile (402 m) of pedestrian access to existing or planned bus or streetcar stops or one-half mile (805 m) of pedestrian access to one-half mile (805m) of pedestrian access to a mass transit system or within five miles of a mass transit station with available parking. existing or planned bus rapid transit stops, passenger rail stations, ferry terminals, or tram terminals.</li> </ul>	NAHB's practice on proximity to mass transit (501.2; 405.6) offers points to projects located within ½ mile of pedestrian access to a mass transit system, or within five miles of a mass transit station with parking. Setting such a low threshold for proximity significantly reduces the expected environmental benefits of mass transit for the building project, namely, reduced emissions and other impacts from automobile-based transportation. Simply put, being located within five miles of a mass transit station provides very little basis to assume that residents will make use of the transit system on a regular basis, either for commuting or for non-work trips, as would be expected if the building project and the transit station were more closely co-located.	5
228		Add New Section Add new as follows	Considerationshould be given to incorporating a model green zoning ordinance in ICC700. The appendixshould not be points-based; rather it should read like an ordinance. It should not be overly complex andshould focus on a few key elements of green: Orienting lotsand buildings such that 80-90% face north / south. Thereshould be a provision for the zoning authority to deem this goal excessive forreasons of the local terrain, etc. Requiring allstorm water to be input into an aquifer at either the building site ordevelopment level, perhaps up to the level of the 95th percentile rainfall event (rainfall event having a precipitation total greater than orequal to 95 percent of all rainfall events during a 24-hour period on an annualbasis.) Use of local water features should be explicitlypermitted, such as the use of runoff to supplement or create a localpond/lake. The stormwatermanagement system shall not cause increased erosion or other drainage relateddamage to adjoining <i>lots</i> or publicproperty. Requirements forpervious hardscape on most of the hardscape surfaces, probably including partsof streets such as gutters, curbs and sidewalks (can some streets be pervious?). Specify pervious as something like: Perviousand permeable pavement/hardscape. Perviousand permeable	A green zoning ordinance would be established at the level of the jurisdiction. Where such an ordinance exists it facilities doing many things proposed in ICC 700. The cost of many decisions, such as how to lay out the streets is often very low in the planning stage, but prohibitive to change after the development is in place. For example orienting lots to be north/south is a very cost-effective way to improve performance. As it will not be appropriate for many jurisdictions and cannot be implemented for a singe house, it should remain an appendix.	

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			pavement/hardscape including open grid paving systems andopen-graded aggregate systems shall have a percolation rate not less than 1.25gallons per hour per square foot and shall have not less than 6 inches (152 mm)of open graded base below the pavement or pavers. Pervious and permeable pavement shall be permitted where theuse of these types of <i>hardscapes</i> doesnot interfere with fire and emergency apparatus or vehicle or personnel accessand egress, utilities, or telecommunications lines. Aggregate used shall be ofuniform size.			
			Requirementsfor "cool hardscape / pavements, including their application to streets. Something like:			
			Hardscapematerials. <i>Hardscape</i> materials in climatezones 1 through 5 shall have a minimum initial <i>Solar Reflectance</i> -of 0.30 when determined in accordance withCRRC-1 or shading. Shading-shall be permitted to be provided by elements of a building or other structures, based on the projected peak sun angle on the summer solstice. Shading shall be permitted to be provided by trees based on the projected ten-year canopy growth of trees actually in place.			
			Exceptions: Pervious concretepavements shall be deemed to comply with the criteria for solar reflectance andneed not be tested.			
			Requirementsfor (not allowances for) thinner streets, with provision to meet firerules.			
			Compliancewith jurisdictional prohibitions against invasive species.			
			Provisionfor, but not a requirement for, integration of local basic services into thedevelopment.			
			Encouragementfor bicycle and walking spaces in some form.			
			Integrationwith park and/or wildlife spaces when reasonable.			
			Reuseof existing structures / infrastructure / materials as is reasonable.			
			Possibleprovisions for solar access, provided they do not conflict with the coolhardscape/shading requirements.			
			Provisionfor a jurisdiction to integrate some level of protection/requirement for agriculturalland, undeveloped land, infill lots, brownfield development, with the choicebeing left mostly to the jurisdiction.			
	Gary Ehrlich NAHB NAHB	Add New Section Add new as follows	Iocated within flood hazard areas is avoided as follows:         (1)       Portions of sites located within a flood hazard area are	An important component of sustainable building is mitigation of natural hazards. This change proposes a credit for locating buildings and associated site developments outside of flood hazard areas. Two levels of credits are proposed; one for avoiding the standard Zone A, Coastal A Zones and V Zone areas, defined as those areas subject to a 1% annual flood risk (or the so-called "100-year floodplain"). An		
				additional credit is proposed for avoiding areas subject to a 0.2% annual flood risk, or the so-called "500-year floodplain". This recognizes that flood damage often occurs outside of the standard flood hazard areas mapped by FEMA.		
148	Randall K. Melvin Winchester Homes Inc.	Add New Section Add new as follows	Green Sapce A portion of the gross area of the community have been set aside as green space.	Encourages on-project green space		
	Winchester Homes, Inc.		1 point for each 10% of the community set aside as green space			
	Steven Orlowski National Association of Home Builders NAHB	Add New Section Add new as follows	402.4 Builder Agreements. Developer requires builders purchasing lots to build the home       A site developer can influence the type of structure being built with         vs       to NGBS certified green community bronze level or equivalent.       A site developer can influence the type of structure being built with         vs       to NGBS certified green community bronze level or equivalent.       A site developer can influence the type of structure being built with			
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274	Steven Orlowski	Add New Section Add new as follows	<ul> <li>406 SITE MAINTENANCE</li> <li>406.0 The developer takes measures to ensure the long term maintenance of the community will ensure its sustainability as a certified green development/site.</li> <li>406.1 Homeowners Association - Prepare for the transition of the green practices and management of the site to eventual management by the homeowners association and/or third parties contracted to maintain and inspect facilities.</li> <li>406.2 Sales Agents – Establish a training manual for sales agents selling lots and homes in the community about the value of sustainability and basic practices for buyers.</li> <li>406.3 Education - Provide for Educational brochures or newsletters providing guidance to</li> </ul>	An additional section was needed to provide points to developers that map out a long term strategy for maintenance and education to ensure that the site is maintained as a sustainable community into the future. This is of critical importance once the developer exits the picture and the ownership and management is turned over to homeowners and the HOA.	
160	Susan Gitlin US Environmental Protection Agency US Environmental Protection Agency	Add New Section Add new as follows	homeowners on green practices. Water and Wastewater Infrastructure. Portions of a building site dedicated in perpetuity to open space or similar conservation uses do not have to be located within water and wastewater service areas, providing the open space has no existing development. Water and wastewater infrastructure do not pass through such open space portions of a project to serve land beyond the project outside of the service area	Sections 501.2 and 405.6 consist of practices encouraging siting close to mass transit and other community resources. This is an important means to mitigate the detrimental transportation-related effects of urban sprawl. However, sprawl also has negative impacts from the expansion of water and wastewater infrastructure, which NAHB does not address. EPA recommends that NAHB add a practice to encourage builders to account for these impacts when siting projects and to specifically protect open space from infrastructure development.	
			Option 1 – Existing Water & Wastewater Service: Locate the building on a site served by existing water and wastewater infrastructure; or Option 2 – Planned Water & Wastewater Service: Locate the building within a legally adopted planned water and wastewater service area and provide new water and wastewater infrastructure for the project; or Option 3: In Situ Water and Wastewater Service: Decentralized water or wastewater systems designed and operated so that they have no significant negative impact on ground water or surface water resources (water quality and quantity and habitat) and pose no significant risk to human health.		
167			Pollutant discharges. Projects that may generate pollutant loadings that cannot be attenuated by the processes of bio-infiltration or evapotranspiration shall provide additional water quality treatment measures and practices to significantly reduce the probability of pollutants of concern entering surface or groundwaters. Projects that are located on brownfields, greyfields or other contaminated sites with pollution levels that do not allow for infiltration should use a combination of practices that evapotranspire and harvest and reuse stormwater. Contaminated sites shall be developed such that there is no interference with, or damage to, any response action at the site. Do not	The standard's existing practices focus specifically on stormwater flow (rates, volumes, etc.). However, NAHB's standard is silent with respect to protecting surface and groundwater quality by minimizing pollutant discharges. EPA would like to see the above requirements added to sections 403 and 503 to ensure the protection of surface and groundwater on building sites.	
175	Susan Gitlin US Environmental Protection Agency US Environmental Protection Agency	Add new as follows	(1) Create staging areas for waiting to load or unload materials that are located 100 ft (30 m) or more from any outdoor air intakes, operable openings, and hospitals, schools, residences, hotels, daycare facilities, elderly housing, and convalescent facilities.	Diesel fuel combustion produces air emissions of NOx, PM, and hydrocarbons, with serious human health and environmental impacts. This is a widespread problem; air quality is significantly impaired for large segments of the U.S. due to PM and NOx pollution. EPA estimated that nonroad equipment was responsible for 24 percent of mobile source diesel NOx emissions and almost half of diesel PM2.5 in 2004. Despite the fact that construction equipment produces a substantial portion of diesel emissions, this issue is not addressed by this standard. The impact of construction activity on air quality can be	
				significantly reduced through a series of relatively simple, low-cost steps. Thus, the standard could add an emissions reduction package	

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	<ul> <li>specifications.</li> <li>(4) Provide emissions control technologies to all equipment not meeting EPA Tier 4 standards in order to reduce particulate matter (PM) and/or nitrogen oxides (NOx) from diesel engines by a minimum of 20% for 50% of the fleet used at the site. All aftermarket emissions control technologies must be verified by EPA or California Air Resources Board (CARB).</li> <li>(5) Document that all equipment uses Ultra Low Sulfur Diesel Fuel that meets ASTM specifications with sulfur levels less than or equal to 15 ppm shall be utilized for non-road diesel engines and equipment.</li> <li>(6) Submit a summary report that includes a copy of the idling/maintenance plan and enforcement policy, and for each piece of equipment: the equipment number, type and make; engine make, horse power and/or kilowatt hour; the emission control device, make, and model; and the type and source of fuel used.</li> </ul>			

#### Chapter 5 – Lot Design, Preparation, and Development

			paration, and Development					
ID	Name Company Entity Represented		Suggested Changes		Reason	Task Group Action	Reason for TG action	
E	Steve Hale Build Green NM Build Green NM		501.1 (4) Lot is in recognized Certified Sustainable subdivision (20 points)		There is no reward for building in a certified sustainable subdivision. Other parts of Lot Design. Should be deleted that really only apply to a subdivision.			
	37 Steven Orlowski 501.1 Lot National Association of Home Builders substitute as NAHB follows	Delete and substitute as follows <b>LOT SELECTION</b> and graded lots to receive additional points for developing in a green community whereas they may not be able to receive any points presently. Geographic location of a site or lot within a region can affect the ability to accrue points differently. Therefore, there should be a point gradient based on geographic						
			one or more of the following: (1) An infill lot is selected.	4	location, awarding more points for developers and Builders who build and develop in more difficult locations. Also, the previous uses on a site or lot that is being redeveloped can also add difficulty to developing in a sustainable manner, and therefore additional points should be awarded accordingly.			
			(2) A greyfield lot or an EPA recognized brownfield lot is selected.	5				
			(1) Lot Selection in a green community. The Builder has selected a lot within an NGBS certified green community or equivalent on which to build. A Green Community has been developed to avoid steep slopes, avoid environmentally sensitive areas and avoid wildlife habitats, to name a few. Though a prepared lot may not contain these features within its boundaries, additional points should be given to builders for selecting to build within a green community.	4				
			(2) <u>Urban.</u> An infill lot is selected in an Urban Location.	4				
			<ul> <li>(3) Suburban. An infill lot is selected in a suburban location.</li> <li>(4) Rural/Exurban. An infill lot is selected in a rural or exurban</li> </ul>	4				
			location.	5				
			<ul> <li>(5) <u>Greyfield location</u>. An infill lot is selected that is a greyfield.</li> <li>(6) Brownfield location. An EPA-recognized brownfield lot is</li> </ul>	5				

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	_	selected.	
	-	(3) <u>Addition and Renovation Note</u> : A renovation or addition project is implemented. (Points awarded for using an existing building and infrastructure.)	
NAHB Research Transp	sportation a new as d	2) Walkways, street crossings, and entrances are designed to promote pedestrian activity are provided. New buildings are connected to existing sidewalks and areas of development. Infrastructure in the community should be considered applicable to this practice.	Chapter 5 is focused on the lot but lots typically do not have walkways, street crossings, etc. This change is intended to clarify the intent of the practice.
National Association Transport	sportation te and <u>(/</u> titute as <u>ti</u> vs <u>b</u>	4) Bicycle Use Bicycle use is promoted by building on a lot located within a community	This section is about more than just public transportation, it also includes encouraging pedestrian and bicycle parking as well as carpooling and carsharing. Therefore the term "multi-modal " is more applicable. Additional examples of multi-modal activities have been added to this sub-section.
US Environmental Transport	sportation o te and titute as vs ( <u>p</u> <del>p</del> <del>p</del>	<ol> <li>A lot is selected within one-quarter mile (402 m) of pedestrian access to existing or blanned bus or streetcar stops or one-half mile (805 m) of pedestrian access to a mass ransit system or within five miles (8046 m) of a mass transit station with provisions for</li> </ol>	The practice on proximity to mass transit (501.2; 405.6) offers points to projects located within ½ mile of pedestrian access to a mass transit system, or within five miles of a mass transit station with parking. Setting such a low threshold for proximity significantly reduces the expected environmental benefits of mass transit for the building project, namely, reduced emissions and other impacts from automobile-based transportation. Simply put, being located within five miles of a mass transit station provides very little basis to assume that residents will make use of the transit system on a regular basis, either for commuting or for non-work trips, as would be expected if the building project and the transit station were more closely co-located.
NAHB Research Team, Center Staten NAHB Research Goals	n, Mission g ment and o s <u>s</u> new as <u>r</u>	bjectives are written into a mission statement. For lots without any environmentally	There are two issues with this practice: (1) is the team's mission to focus strictly on the lot design & landscape or the entire project and (2) for builders building on developed lots in a community, this practice seems awkward especially if there are community covenants guiding/restricting what can be done on the lot.
City of Scottsdale Resou	I Natural	Make line items (1) and (2) mandatory.	Local building departments already require sites plans to identify exisitng natural and manmade features. A natural resources inventory merely identifies the site's envornmental attribures. This is simple and straigh forward. As part of this inventory, priority site attributes and resources can be identified and made part of the site development plan. This is a prerequisite for beginning any green building project and should be mandatory for the National Green Building Standard.
NAHB Research Resou	ources p new as <u>c</u> vs <u>b</u>	1) A natural resources inventory is completed under the direction of a qualified professional. For lots without any environmentally sensitive areas, if the developer conducted a natural resource inventory, and that information is made available to the puilder, then these points may be awarded based on the development's natural resource inventory.	It seems reasonable to give credit to the home when the activity has been done by the developer on a community wide basis.
NAHB Research Resou	ources h new as <u>d</u> vs <u>tư</u>	2) A plan is implemented to conserve the elements identified by the resource inventory as high priority resources. For lots without any environmentally sensitive areas, if the developer conducted a natural resource inventory and the developer implemented a plan o conserve high priority resources, these points are available to the builder provied the builder does not do anything on the lot that violates the community plan.	For developed lots that do not have any sensitive areas, it seems reasonable that this could be done on a community wide basis.
NAHB Research Resou	ources d new as <u>it</u>	3) Items listed for protection in the resource inventory plan are protected under the lirection of a qualified professional. When the lot has no high priority resources on the lot tself, if during the construction of the development, the developer met this practice for the entire community, these points may be awarded.	It seems reasonable to give credit to the home when the activity has been done by the developer on a community wide basis.
NAHB Research Resou	ources s new as <u>s</u> vs <u>tr</u>	4) Basic training in tree or other natural resource protection is provided for the on-site supervisor. If the builder's supervisor is responsible for the entire community and there are substantial trees or other natural resources in the community and the supervisor has the raining required for this practice then these points can be awarded for any lot under the supervisor's control. If the lot specific supervisor has had this training and there are trees	Clarification is needed as to when these points are appropriate.

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D         Name Entity Represented         Section Number Action         Suggested Changes         Reason           454         Robert Hill NAHB Research Center         503.1 Natural Resources         503.1 Natural resources on ratical resources to protect.         (5) All tree pruning on-site is conducted by a Certified Arborist. When the individual lot is protesting on-site is conducted by a Certified Arborist. When the individual lot is reset incughout the entire community. these points are not applicable if there are no trees or natural resources to protect.         Guidance is needed to understand when these points should be aw           454         Robert Hill NAHB Research Center         503.1 Natural Resources         6() Ongoing maintenance of vegetation <u>on the lot</u> during construction is in accordance with NAHB Research Center         Frevide clarification that this practice must be done on the lot rather conserved by one or more of the following: NAHB Research Center         6() Ongoing maintenance of vegetation <u>on the lot</u> during construction is in accordance with NAHB Research Center         Provide clarification that this practice must be done on the lot rather conserved by one or more of the following: Note: bare subdivision lots do not qualify for points in (1-6)         Natural Resources. Natural resources are conserved by one or more of the following: Note: bare subdivision lots do not qualify for points in (1-6)         Sometimes it is easy to identify salvageable resources without the an additional professional, especially considering this is for one lot.           71         Steve Hale Build Green NM Adl Green NM Adl Green NM Build Green NM Build Green NM Build Green NM Build Green NM Build Green NM         503.1 (1) Anat	then in the
Image: Instant State         State </th <th>then in the</th>	then in the
NAHB Research Center         Resources Add new as follows         It reeless, if during the construction of the development the devevevent the devevevent the development the devevevevevent the deve	then in the
NAHB Research Center       Resources Add new as follows       TCIA A300.       commuity.         70       Steve Hale Build Green NM Build Green NM       503.1 (1) A natural resources inventory is completed under the direction of a qualified professional or using an appropriate regional resource guide.       Sometimes it is easy to identify salvageable resources without the r an additional professional, especially considering this is for one lot.         72       Steve Hale Build Green NM Build Green NM Build Green NM       503.1 Natural Resources Add new as follows       503.1 (3) Items listed for protection in the resource niventory plan are protected under the direction of a qualified professional a qualified professional       This expands the scope of who could be qualified to protect resource the direction of a qualified professional	
Build Green NM Build Green NM       Resources Add new as follows       Natural resources are conserved by one or more of the following: Note: bare subdivision lots do not qualify for points in (1-6)         71       Steve Hale Build Green NM Build Green NM       503.1 Natural Resources Add new as follows       503.1 (1)         72       Steve Hale Build Green NM Build Green NM       503.1 Natural Resource guide.       503.1 (3) Items listed for protection in the regional resource guide.       Sometimes it is easy to identify salvageable resources without the r an additional professional, especially considering this is for one lot.         72       Steve Hale Build Green NM Build Green NM       503.1 Natural Resources regional resource guide.       503.1 (3) Items listed for protection in the resource inventory plan are protected under the direction of a qualified professional       This expands the scope of who could be qualified to protect resource the direction of a qualified professional	
Build Green NM Build Green NMResources Add new as followsA natural resources inventory is completed under the direction of a qualified professional <u>or using an appropriate regional resource guide.</u> an additional professional, especially considering this is for one lot.72Steve Hale Build Green NM Build Green NM Build Green NM503.1 Natural Resources Revise as follows503.1 (3) Items listed for protection in the resource inventory plan are protected under the direction of a qualified professionalThis expands the scope of who could be qualified to protect resource the contractor or owner.	
Build Green NM       Resources       503.1 (3) Items listed for protection in the       the contractor or owner.         Build Green NM       Revise as follows       503.1 (a) Items listed for protection in the       the contractor or owner.	ed to hire
	s including
73       Steve Hale       503.1 Natural       503.1 (7)         Build Green NM       Resources       Add new as follows       If a bare lot in a subdivision adjoins a landscaped common area. A protection plan from construction activities next to the common area is implemented. (5 points)       Allows points for a bare lot for implementing practices that save results and the same results and the same results are results are results are results and the same results are results are results are results and the same results are results	
456Robert Hill NAHB Research Center503.2 Slope Disturbance Add new as follows(3) All or a percentage of roads and parking are aligned with natural topography to reduce Center NAHB Research CenterThis practice needs significant clarification. Most lots do not have driveways and street parking. If this practice is intended to apply only to multi-unit should be stated that way. If the practice is to be broadly applied to roads in the development then guidance is needed on how to apply the road in front of the house need to align with the topography or is in the community).	o the use on complexes it include t (e.g. does
457 Robert Hill503.2 Slope(4) Long-term erosion effects are significantly reduced through the design and implementation of terracing, retaining walls, landscaping, and or centerThis is to provide clarification that any of these practices may be use are required) and to provide guidance on the improvement must be techniques.457 Robert Hill503.2 Slope(4) Long-term erosion effects are significantly reduced through the design and implementation of terracing, retaining walls, landscaping, and or techniques.This is to provide clarification that any of these practices may be use are required) and to provide guidance on the improvement must be minimal. Further guidance on the extent of the improvement necess be very helpful.	nore than
74       Steve Hale       503.2 Slope         Build Green NM       Disturbance       503.2 Slope disturbance. Slope         Build Green NM       Disturbance is minimized by one or more of       single lot) As written this would encourage finding steep slopes for or         When they should be left alone (think of L.A. in the rainy season)       the following; (Points awarded only if there are developable steep slopes on the lot)	
75       Steve Hale Build Green NM Build Green NM Build Green NM       503.2 Slope Disturbance Add new as follows       503.2 (1) (d) A lot is chosen with no steep slopes (2) points)       It makes no sense if steep slopes are avoided in the first place (this single lot) (Two other related changes submitted)	s just a
76     Steve Hale     503.2 Slope     503.2(3)       February 2011     Page 22 of 137	• •

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Entity Represented Build Green NM Build Green NM	Disturbance	(d) A lot is chosen with no steep slopes (2 points)	single lot)
51 Anthony Floyd City of Scottsdale City of Scottsdale	503.3 Soil Disturbance and Erosion Revise as follows	Make lines items (1) and (3) mandatory.	Soil exposed by construction activities is especially vulnerable to erosion. Soil erosion contributes to stormwater run-off pollutants and air borne particulates that make up air pollution. Most city and county authorities require a Stormwater Pollution Prevention Plan to minimize stormwater pollutant runoff. Based on the site inventory and an established site plan, it is simple to identify the limits of clearing and grading. Most jurisdictions already require a grading and drainage plan as part of civil engineering and building permit requirements. This process has long been established in the engineering and regulatory process around the country. This should be a prerequisite and therefore mandatory for the National Green Building Standard.
58 Robert Hill NAHB Research Center NAHB Research Center	503.3 Soil Disturbance and Erosion Add new as follows	(1) Construction activities are scheduled to <del>minimizel<u>limit</u> the</del> length of time that <u>unstablized</u> soils are exposed <u>to 14 days or less.</u>	Clarification is needed define "minimize". 14 days is the EPA guideline.
60 Robert Hill NAHB Research Center NAHB Research Center	503.3 Soil Disturbance and Erosion Add new as follows	(2) <u>At least 75% of total length of the installed Utilities on the lot</u> are installed using one or more alternative means:	Clarification is needed to define to what extent the installation must meet the practice in order to qualify for the points.
61 Robert Hill NAHB Research Center NAHB Research Center	503.3 Soil Disturbance and Erosion Add new as follows	(3) Limits of clearing and grading are demarcated on the <u>lot</u> plan.	Clarify the practice.
7 Steve Hale Build Green NM Build Green NM	503.3 Soil Disturbance and Erosion Revise as follows	503.3 (3) Limits of clearing and grading are demarcated on the plan <u>(not awarded for</u> <u>bare lots)</u>	Hard to preserve what is not there or monitor on small subdivision lots that have been scraped bare.
52 Anthony Floyd City of Scottsdale City of Scottsdale	503.4 Storm Water Management Revise as follows	Make line item (2) mandatory.	Building permit authorities already require site surveys along with a proposed site plan and grading/drainage plan. Most city, town and county authorities have master stormwater surveys and plans to ensure public infrastructure and development will not adversely affect regional drainage paths. This process has long been established in the engineering and regulatory process around the country. A site stormwater management plan should be a prerequisite and therefore mandatory for the National Green Building Standard.
62 Robert Hill NAHB Research Center NAHB Research Center	Management Add new as follows	Storm water is managedusing one or more of the following low impact development techniques: For lots in a development, the points for items (1), (2), and (3) may be awarded for the lot when there is a community storm water management plan implemented and the builder does not violate that plan with respect to water leaving the lot.	This practice is difficult to meet when it is confined strictly to the lot. Allowing credit for coordinating with a site storm water management plan clarifies this practice while still meeting the intent.
63 Robert Hill NAHB Research Center NAHB Research Center	503.4 Storm Water Management Revise as follows	A storm water management plan	Is this intended to be a plan for during consturction only or a plan that covers both construction and post construction?
83 Steven Orlowski National Associatior of Home Builders NAHB	n Management Revise as follows	(4) <u>Green Roof</u> – A minimum of 50% of the roof is to be vegetated <u>uses vegetated roof</u> technology and shall be capable of withstanding the climate conditions of the jurisdiction and the micro climate conditions of the of the building site. Invasive plant species shall not be permitted and selected plants shall not add to the potential for fire hazard in the event of severe drought.	Greater specificity on green roof technology is needed. Also, this section should being with the term "green roof" so that it is more easily identified within the chapter.
65 Susan Gitlin US Environmental Protection Agency US Environmental Protection Agency	Management Add new as follows	(5) Option 1: Stormwater management practices that manage rainfall on-site and prevent the off-site discharge from all storms up to and including the volume of the 95th percentile storm event. Maintain predevelopment (natural) runoff temperatures. Option 2: Conduct a hydrologic analysis that results in the design of a stormwater	The standard's practice on stormwater management is commendable for encouraging the use of low-impact development techniques. However, the practice does not go far enough to ensure that buildings do not have an overly harmful impact on the hydrology of the surrounding area. This section can be strengthened through the development of several additional practices. In place

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	Entity Represented	Action	management system that maintains the pre-development (stable, natural) runoff hydrology of the site throughout the development or redevelopment process. Post construction runoff rate, volume, duration, and temperature shall not exceed predevelopment rates.	of or in addition to the existing, relatively prescriptive measures in 503.4 and 403.5, EPA recommends a stormwater management practice focusing more on outcomes.
170	Susan Gitlin US Environmental Protection Agency US Environmental Protection Agency	503.4 Storm Water Management Add new as follows	Stormwater management verification. Stormwater rate, volume and duration calculations shall be provided for pre- (stable, natural) and post- development for the 2, 10, 25, 50 and 100 year storm events in addition to other applicable state and local reporting requirements. Infiltration and evapotranspiration strategies and rainwater collection (where allowed) calculations shall be indicated. A long-term maintenance plan for stormwater management practices shall be provided.	In support of the requirements that EPA suggested in a prior comment (ID#
465	Robert Hill NAHB Research Center NAHB Research Center	503.5 Landscape Plan Add new as follows	A landscape plan <u>for the lot</u> is developed to limit water and energy use while preserving or enhancing the natural environment.	Clarify the practice.
466	Robert Hill NAHB Research Center NAHB Research Center	503.5 Landscape Plan Add new as follows		For lots that are substanitally all turf it seems inappropraite to award points for a plan to restore the natural vegetation.
467	7 Robert Hill NAHB Research Center NAHB Research Center	503.5 Landscape Plan Add new as follows	(2) Turf grass species, other vegetation, and trees are slected <u>and specified on the lot plan</u> that are native or regionally appropriate for local growing conditions.	Clarify the practice.
468	Robert Hill NAHB Research Center NAHB Research Center	503.5 Landscape Plan Add new as follows	(3) A- <u>The percentage of or all</u> turf areas that will be mowed are limited and shown on the lot plan. The percentage is based on the landscaped area of the lot not including the home footprint, hardscape, and any undisturbed natural areas.	Clarify the practice.
469	Robert Hill NAHB Research Center NAHB Research Center	503.5 Landscape Plan Add new as follows	(4) Plants with similar watering needs are grouped (hydrozoning) and shown on the lot plan.	Clarify the practice.
471	NAHB Research Center	503.5 Landscape Plan Add new as follows	(5) Species and locations for trees or tree planting of at least 3 trees are identified on the lot plan that will provide summer shading of streets, parking areas, and buildings to moderate temperatures within 5 years of completion of the building.	Clarify the practice and to define the extent of implementation required.
472	2Robert Hill NAHB Research Center NAHB Research Center	503.5 Landscape Plan Add new as follows	(6) Vegetative wind breaks or channels are designed <u>to protect the lot</u> as appropriate for local conditions.	Clarify the practice.
473		503.5 Landscape Plan Add new as follows	appropriate trees are used to provide protective mulch on the lot during construction, and	Clarify the practice. There have also been a number of requests to allow trees to be used as firewood as an alternative to sawn lumber or pulp wood. If the task group has an opinion on this, additional clarification would be useful.
78	Steve Hale Build Green NM Build Green NM	Plan Revise as follows	Landscape plan. A landscape plan is developed to limit water and energy use while preserving or enhancing the natural environment, <u>(If "front" only or "rear" only</u> plan is implemented only 1/2 the points (rounding down to a whole number) are allowed for the practices (1-6) in section 503.5.	Many builders landscape the front only and leave the rear to the home owner. Partial credit should be allowed for this practice.
79	Steve Hale	503.5 Landscape	<u>503.5 (e)</u>	Zoning or covenants that are implemented later by the home owner will still reap

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	Build Green NM	Plan Add new as follows	(e) no landscape plan is implemented but zoning, covenants or deed restrictions limit turf to , 25% (1 pt)	sustainable benefits.
	US Environmental Protection Agency US Environmental	503.5 Landscape Plan Delete and substitute as follows	<ul> <li>(3) A percentage of all turf areas are limited.</li> <li>(a) 0 percent</li> <li>(b) greater than 0 percent to less than 25 20 percent</li> <li>(c) 25 20 percent to less than 40 50 percent</li> <li>(d) 50 40 percent to 75 60 percent</li> </ul>	EPA supports the inclusion of a practice restricting turf areas in landscaping, but the minimum target of 75 percent of all landscaping is too low. We recommend that the minimum instead be set at 60 percent, with one additional point awarded for every further 20 percent reduction.
173	Susan Gitlin	503.5 Landscape	(8) An integrated pest management plan is developed to minimize chemical use in	The IPM component of the standard's landscape plan (503.5.8; 403.6.9) can be
	US Environmental Protection Agency US Environmental Protection Agency	Plan	pesticides and fertilizers. An Integrated Pest Management plan is developed, implemented, and maintained that addresses both indoor and outdoor pest control. The plan must include the EPA's Pesticide Environmental Stewardship Program four tiered approach to pest management:	improved in two main ways. First, NAHB should use more specific language to ensure that the IPM plan has a meaningful environmental impact. Secondly, the practice should require the use of pest control operators who are certified in IPM practices. We suggest the above language instead of the standard's current language on IPM.
			1) <b>Set action thresholds.</b> Before taking any pest control action, IPM first sets an action threshold, the point at which pest populations or environmental conditions indicate that pest control action must be taken to avert a nuisance, health hazard, or economic threat.	
			2) <b>Monitor and Identify Pests.</b> IPM programs monitor and identify pests and the most appropriate course of action for a particular pest chosen. Monitoring and pest identification ensures that appropriate actions are taken. This could include some combination of prevention and control.	
			<b>3) Prevention.</b> The first line of defense in any IPM program is the prevention of conditions in or around a building or in an orchard that attract pests – sources of food, water, and shelter. IPM service providers use practices to prevent pests including, but not limited to:	
			a. Customer education including materials for non-English speakers and those with difficulty reading.	
			b. Providing customers with information about pest behavior and conditions, and that allow pests access to the site, food, water, and habitat, so that the customer can understand and participate in the pest management process;	
			c. Irrigation practices, the treatment or removal of plants attractive to pests, and physical changes to reduce pest access to structures;	
			d. Removal of pest habitat, sources of food and water, and breeding areas - keeping premises free of trash and overgrown vegetation, and diverting water away from a building or landscaping to avoid standing water;	
			e. Prevention of access to structures - sealing areas where pests enter the buildings (weatherization).	
			4) Management. Integration of Multiple Management Strategies and Tools	
			A variety of pest control strategies and tools are integrated into a comprehensive program to manage the pest. If identification, monitoring, and action thresholds indicate that pest	

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			management is required, and preventive methods are no longer effective or viable, management methods can be and should be employed. Management strategies may include, but are not limited to, the following:	
			a. Mechanical or physical controls including, but not limited to, traps, vacuuming, steam cleaning, or physical barriers;	
			<ul> <li>Biological controls including the use of predators, parasitoids, or pathogens to control the pest; and,</li> </ul>	
			c. If preventive measures along with the practices in paragraphs 'a' and 'b' directly above are insufficient to prevent or control pests, chemical controls may be used.	
			Note: Under an IPM program, management methods are evaluated based on effectiveness and relative risk. Those methods that are found to both be the most effective and pose the lowest risk are selected first. IPM combines two central methods for reduced-risk pest control:	
			a. Least Toxic Pest Management Options. These include use of physical controls, such as trapping, vacuuming, and steam cleaning.	
			b. Pesticides	
			Pest management is a group activity from the prevention and monitoring phase through the chemical usage decision. All stakeholders should be involved in the decision to use chemicals. For structural situations, this includes the IPM coordinator, pest management professionals, building managers, cleaning staff, etc. In agricultural situations, this includes the crop consultant/scout, grower, and, when appropriate, food processor.	
			Pest management plans should dictate action thresholds and a decision-making process for actions including pesticide selection. Universal notification (advance notice of not less than 72 hours under normal conditions and 24 hours in emergencies before a pesticide, other than a least-toxic pesticide, is applied in a building or on surrounding grounds that the building management maintains). Define emergency conditions. There are best management practices to follow if pesticides are to be used:	
			read the label first,	
			choose the right chemical for a particular pest, and	
			have a clear understanding of the proper application rate and method – misuse can harm not only your health but also the environment.	
			When a chemical control method is required within an IPM program, a biological pesticide should be considered first. Biopesticides are usually inherently less toxic than conventional pesticides and decompose quickly so they do not leave persistent chemical residues in the environment.	
			Sometimes a conventional pesticide (synthetic materials that directly kill or inactivate a pest) may be needed for satisfactory pest control. Ideally, all pesticides are used in combination with other lower-risk non-chemical pest management practices. Even within conventional pesticides, there is a progression of best management practices:	
			Use baits and spot treatments are limit unnecessary exposure to chemicals,	
			Apply pesticides only as directed by the label,	
			Notify customers prior to pesticide applications - ideally, a 24 hour notice before for	

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		applications in or around any building landscape or structure.	
		In occupied structures, pest management professionals and/or IPM coordinators must clearly explain to the building occupants how to maintain safe interaction around the treated areas.	
		Hire pest management professionals certified by an EPA Pesticide Environmental Stewardship Program partner organization, such as the National Pest Management Association's Green Pro, IPM Institute's Green Shield, or other programs, as appropriate.	
237 Thomas Stroud HPBA HPBA	503.5 Landscape Plan Add new as follows	503.5(7) On-site tree trimmings or stump grinding of regionally appropriate trees are used to provide protective mulch during construction or as a base for walking trails, and cleared trees are recycled as sawn lumber, pulp wood <u>or</u> biomass for Solid Fuel Burning Appliance as per Section 901.2.1(2) for on-site renewable energy.	This is in support of the use of on-site renewable energy
475 Robert Hill NAHB Research Center NAHB Research Center	503.6 Wildlife Habitat Add new as follows	Measures are planned that will support wildlife habitat. <u>The measures to support wildlife</u> habitat should be commensurate with the size and surroundings of the lot. Points are available for lots when community space supports wilsdlife habitat. The minimum support measures should incldue at least 2 of the following: area for shelter, natural food source, and natural water source.	Additional guidance is needed to clarify the extent and types of measures that are appropriate and required for various types of lots.
285 Steven Orlowski National Association of Home Builders NAHB	503.6 Wildlife Habitat Add new as follows	<b>503.6</b> Wildlife Habitat. Measures are planned that will support wildlife habitat.	In Chapters 4 and 5, points are awarded for developers who preserve wildlife habitats on site, as well as provide on-site amenities to encourage urban wildlife. Therefore, it is pertinent to provide a definition to this term to help clarify the verification process.
		(1) Plants and gardens that will encourage wildlife, such as bird and butterfly gardens.	
		(2) Inclusion of a certified "backyard wildlife" program	
		(3) Lots are adjacent to wildlife corridors, fish and game parks, or preserved areas and are designed to be respective of this relationship.	
		(4) <u>Outdoor lighting techniques are utilized to be respective of wildlife.</u>	
478 Robert Hill NAHB Research Center NAHB Research Center	503.7 Mixed Use Development Add new as follows	The building on the lot contains Mixed-uses development is incorporated. These points are intended for buildings that contain mixed use in the building. The points for a mixed use community are awarded in 501.2(3).	This practice is often confused with mixed use development in 501.2(3). This change clarifies that this practices applies only to buildings that have the mixed use within the building.
479 Robert Hill NAHB Research Center NAHB Research Center	503.8 Environmentally Sensitive Areas Delete and substitute as follows	(1) Environmentally sensitive areas are avoided. The lot does not contain any environmentally sensitive areas that are disturbed by the construction.	This change clarifies that a lot without any sensitive areas or a lot that has sensitive areas but those areas are not disturbed can meet this practice.
480 Robert Hill NAHB Research Center NAHB Research Center	503.8 Environmentally Sensitive Areas Add new as follows	(2) Compromised environmentally sensitive areas are mitigated or restored. These points are available only if the lot has a compromised environmentally sensitive area on the lot. These points are not available if the sensitive area is damaged during contruction of the building. If the sensitive area is damaged by the developer (and the developer is not the builder) or if the sensitive area is otherwise less than pristine, these points may be awarded if the builder makes significant restoration efforts. Points cannot be claimed for mandatory mitigation or restoration of federally-protected sensitive areas unless the mitigation or restoration is greater than that which was required through the federal permit process.	This practice needs to make it clear that to get the points any restoration or mitigation must go above and beyond and government mandated efforts and any damage caused by the builder.
154 Susan Gitlin US Environmental Protection Agency US Environmental Protection Agency	503.8 Environmentally Sensitive Areas Revise as follows	This section should be a mandatory requirement, not one that provides credits. (This proposed change is also being submitted for Section 403.11)	Locational considerations are fundamental to the definition of a green building. Moreover, the importance of environmentally sensitive areas to human health and the environment makes their protection essential in any standard that aims to promote increased environmental protection.
157 Susan Gitlin US Environmental	503.8 Environmentally	<ol> <li>Environmentally sensitive areas are avoided.</li> <li>Compromised environmentally sensitive areas are mitigated or restored.</li> </ol>	Locational considerations are fundamental to the definition of a green building. NAHB is notably weaker than other green building rating and certification

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ID Name Company Entity Represented	Section Number And Requested d Action	Suggested Changes	Reason	Task Group Action	Reason for TG action	
Protection Agency US Environmental Protection Agency	Sensitive Areas Revise as follows		systems on the issue of site sustainability, and in particular, in discouraging building on environmentally sensitive and valuable lands. NAHB has only one optional credit restricting building in sensitive areas, which nonetheless allows building if the area is to be mitigated or restored. With no specific requirements or definition for mitigation or restoration, nor with a means of enforcement for this provision, this practice is insufficient to guarantee protection of sensitive lands. This shortcoming is a major weakness in the standard. Sections 503.8 and 403.11 should be revised to correct this shortcoming.			
569 Robert Hill NAHB Research Center NAHB Research Center	503.9 Density Revise as follows	The average density <u>on the lot</u> on a net developable area is:	Clarify that the density is based on the individual lot rather than a community wide average.			
163 Susan Gitlin US Environmental Protection Agency US Environmental Protection Agency	503.9 Density Add new as follows	<ul> <li>(4) The lot [or site] is within one-quarter mile of developed residential land with an average density of at least 8 units per acre.</li> <li>(5) The lot [or site] is adjacent to existing development with pre-project connectivity of at least 90 intersections/mile of any continuous segment equaling 25 percent of the project boundary. Areas excluded from the calculation shall be water bodies, parks larger than 1/2 acre, recreational facilities, public campuses (such as universities), airports, rail yards, areas preserved from development by codified law or prerequisites of the rating system, and land that cannot be developed due to a unique topographic or geologic condition (such as steep slopes). Street rights-of-way may not be excluded.</li> </ul>	403.12, as well as in several innovative practices for subdivisions in 405. EPA supports these practices, but recommends that NAHB go further by incentivizing buildings or subdivisions to be built adjacent to densely-built areas as well.			
481 Robert Hill NAHB Research Center NAHB Research Center	504.1 Onsite Supervision Add new as follows	On-site supervision and coordination is provided during clearing, grading, trenching, paving <u>on the lot</u> , and installation of utilities <u>on the lot</u> to ensure that specified green development practices are implemented. (also see Section 503.3).	Clarify the practice.			
482 Robert Hill NAHB Research Center NAHB Research Center	504.2 Trees and Vegetation Add new as follows	(1) Fencing or equivalent is installed to protect <u>all</u> trees and other vegetation <u>on the lot or</u> <u>adjacent to the lot that might be disturbed by the construction</u> .	Clarify the practice.			
483 Robert Hill NAHB Research Center NAHB Research Center	504.2 Trees and Vegetation Add new as follows	(2)Trenching, significant changes in grade, and compaction of soil and critical root zones in <u>all</u> "tree save" areas <u>as shown on the lot plan</u> are avoided.	Clarify the practice.			
484 Robert Hill NAHB Research Center NAHB Research Center	504.2 Trees and Vegetation Add new as follows	(3) Damage to designated existing trees and vegetation is mitgated during construction through pruning, root pruning, fertilizing, and watering <u>and these trees and vegetation are healthy at the completion of the project</u> .	Clarify the practice.			
80 Steve Hale Build Green NM Build Green NM	504.2 Trees and Vegetation Revise as follows	504.2 Trees and vegetation. Designated trees and vegetation are preserved <u>on the</u> <u>building lot or adjoining "open" space</u> by one or more of the following:	More clearly defines what points are awarded for. Protecting next door neighbors trees should be standard practice and not awarded points.			
485 Robert Hill NAHB Research Center NAHB Research Center	504.3 Soil Disturbance and Erosion Add new as follows	(1) Limits of clearing and grading are staked out <u>on the lot</u> .	Additional consideration should be given to dealing with small urban lot where the lot line and the clearing limits are likely to be one in the same.			
486 Robert Hill NAHB Research Center NAHB Research Center	504.3 Soil Disturbance and Erosion Add new as follows	sensitive areas on the lot or immediately adjacent to the lot from construction activity.	Clarify the practice.			
488 Robert Hill NAHB Research	504.3 Soil Disturbance and	(3) Sediment and erosion controls are installed on the lot and maintained in accordance with the storm water pollution prevention plan, where required.	Clarify the practice.			

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Center NAHB Research Center	Erosion Add new as follows				
489 Robert Hill NAHB Research Center NAHB Research Center	504.3 Soil	(4) Topsoil (from either the lot or the community development) is stockpiled and stabilized for later use and used to establish landscape plantings on the lot.	Clarify the practice.		
490 Robert Hill NAHB Research Center NAHB Research Center	504.3 Soil Disturbance and Erosion Revise as follows		The commentary appears to limit the need for any of thee 504.3 sub-practices to areas outsideof the limits of clearing and grading. If that is the intent then the sub-practices should be clarified to make this clear.		
491 Robert Hill NAHB Research Center NAHB Research Center		(6) Disburbed areas <u>on the lot</u> that are complete or to be left unworked for 21 days or more are stablized with 14 days using methods as recommended by the EPA, or in the approved storm water pollution prevention plan, where required.	Clarify the practice.		
492 Robert Hill NAHB Research Center NAHB Research Center		(7) Soil for at least 50% of the landscaped area (including turf) is improved with organic amendments and mulch as recommended by a local landscaper.	Clarify the practice and define the extent required.		
493 Robert Hill NAHB Research Center NAHB Research Center	Disturbance and Erosion	more alternative means (e.g., tunneling instead of trenching, use of smaller equipment, use of low ground pressure equipment, use of geomats, shared utility trenches or	Clarify and define the extent of the practice. How does this part of this practice relate to 504.3(5)? Should low ground pressure equipment be added to 504.3(5)?		
83 Steve Hale Build Green NM Build Green NM	504.3 Soil Disturbance and Erosion Delete without substitution	504.3 (1) Limits of clearing and grading are staked out.	Redundant Combine with similar points in 503.3 (3)		
84 Steve Hale Build Green NM Build Green NM	Delete without	504.3 (3) Sediment and erosion controls are installed and maintained in accordance with the storm water pollution prevention plan. Where required	Redundant Combine with similar points in 503.4 (2)		
85 Steve Hale Build Green NM Build Green NM	504.3 Soil Disturbance and Erosion Delete without substitution	Utilities are installed using one or more alternative means	Redundant Combine with similar points in 503.3 (2)		
495 Robert Hill NAHB Research Center NAHB Research Center	and Parking Areas Revise as follows	Driveways or Off-street parking areas are shared or driveways are shared for at least 50% of their length. Waivers or variances from local development regulations are obtained to implement such practices, as applicable if required. In a multi-unit project, parking capacity is not to exceed the local minimum requirements.	Clarify and define the extent of the practice.		
318 Erin Ashley National Ready Mixed Concrete Association NRMCA	505.2 Heat Island Mitigation Revise as follows	<ul> <li>505.2 Heat Island Mitigation. Heat island mitigation. Any combination of the following strategies are provided for a minimum of 50 percent of the horizonatal surface area off the hardscape: <ul> <li>(1) Shading of the hardscapting: Shade is provided from existing or new</li> <li>vegetation (within five years) or from trellises. Shade of hardscaping is to be</li> </ul> </li> </ul>	For inclusion of pervious concrete: Pervious concrete should be included in the acceptable reflective materials sections under the heat island credit. The ASTM C1549 solar reflectance test and subsequent calculation of SRI in accordance with ASTM E1980 does not adequately capture the heat island effects of permeable pervious concrete due to their void structure. However, studies have shown that pervious concrete stores less energy, therefore less heat, when exposed to sun over an extended period of time. This heat is not reflected back to the environment resulting in lower external temperatures. Furthermore, moisture trapped within the voids allows the pavements to remain cooler via evaporation. For change in point values: The effect of increase in ambient temperatures in metropolitan areas is apparent when you compare the health of those who reside in the city versus those who reside in more rural areas.		

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Entity Represented	Action	measured on the summer solstice at noon.         (2) Light-colored hardscaping: Horizontal hardscaping installed with a solar reflectance index of 29 or gree (3) Pervious Concrete: Horizontal hardscaping mawith         pervious concrete.         (1)A minimum of 50% of the Horizontal Surface meets the strategies of 505.2         (2) 50% to 75% of the horizontal surface meets the strategies of 505.2         (3) 100% of the horizontal surface meets the strategies of 505.2	eater aterials are installed <u>4</u> <u>6</u> <u>8</u>	Compared to rural areas, cities experience higher rates of heat related illness and death. Heat islands, or areas of dark colored roofing and pavements where ambient temperature is increased, can exacerbate hot weather events or periods, which may cause heat stroke and lead to physical discomfort, heat stroke, organ damage and even death especially in vulnerable populations such as the elderly. The Centers for Disease Control and Prevention (CDC) says that excessive heat claims more lives in the United States each year than hurricanes, lightning, tornadoes, floods and earthquakes combined. Between 1979-1998, the CDC estimates that 7,421 deaths resulted from exposure to excessive heat in the U.S. By reducing the temperature of the pavements through the use of lighter color materials, one may be able to reduce the ambient temperature of our cities, therefore reducing the temperature exposure to its residents. The intent of this code is to provide the best sustainable measures to the general public. With the options for heat island mitigation provided in this credit, it is plausible to achieve the value of 75% or 100% without incurring significant costs; however, the savings in regards to energy, health and decrease in temperature will be measurable. Therefore, additional points should be awarded for these incremental achievements. References: Source: Haselback, L., Kevern, J.T., Hot Weather Comparative Heat Balances in Pervious Concrete. Proceedings NRMCA 2008 Concrete Technology Forum: Focus on Sustainable Development, Denver, CO, May 20- 22, 2008 (CD-ROM). Kevern, J.T., Schaefer, V.R., and Wang, K. "Temperature Behavior of a Pervious Concrete System," National Transportation Research Board (TRB) Transportation Research Record 2009a edition. (accepted, publication info pending) www.eere.energy.gov/state_energy_program/project_brief_detail.cfm/pb_id=102 Accessed August 10, 2008 http://www.climatescience.gov/Library/sap/sap4- 5/sap4-5prospectus-final.htm Accessed August 10, 2008.
NAHB Research Center	505.2 Heat Island Mitigation Add new as follows	Heat Island Mitigation. Any combination of the following minimum of 50 percent of the horizontal surface area of t		Clarify practice.
286 Steven Orlowski National Association of Home Builders NAHB	Mitigation Add new as follows	505.2 Heat island mitigation. Any combination of the for a minimum of 50 percent of the horizontal surface are         (1) Shading of hardscaping; Shade is provided from exis years) or from trellises. Shade of hardscaping is to be menoon.         (2) Light colored hardscaping: Horizontal hardscaping mereflectance index of 29 or greater.         (3) Green Roof Roof – A minimum of 50% of the roof is troof technology and shall be capable of withstanding the jurisdiction and the micro climate conditions of the of the species shall not be permitted and selected plants shall the hazard in the event of severe drought.         (4) Landscaping Coverage, excluding all impervious sursoftscape gardens, and tree canopies:         50 – 60%         60 – 75%	ea of the hardscape: ting or new vegetation (within five easured on the summer solstice and aterials are installed with a solar to be vegetated uses vegetated climate conditions of the building site. Invasive plant not add to the potential for fire faces and, including lawns, 40 – 50%	absorption.
208 Gary Ehrlich	Add New Section	503.10 Flood hazard areas. The development of	portions of lots	An important component of sustainable building is mitigation of natural hazards.

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	new as	(1) Portions of lots located within a flood hazard area are avoided.	This change proposes a credit for locating buildings and associated site developments outside of flood hazard areas. Two levels of credits are proposed; one for avoiding the standard Zone A, Coastal A Zones and V Zone areas, defined as those areas subject to a 1% annual flood risk (or the so-called "100-		
	_		year floodplain"). An additional credit is proposed for avoiding areas subject to a 0.2% annual flood risk, or the so-called "500-year floodplain". This recognizes that flood damage often occurs outside of the standard flood hazard areas mapped by FEMA.		
		<u>Green Space</u> A portion of the gross area of the community/subdivision in which the lot resides has	Encourages green space within community/subdivision		
Inc. follow Winchester Homes,		been set aside as green space.			
Inc.		1 pt for each 10% of the community/subdivision set aside in green space			
288 Steven Orlowski Add National Association Add of Home Builders follow NAHB	new as ws	(1) Tree Plantings – Plant Deciduous Trees to the east and west of a lot(s) to create	Consolidating all the criteria that relates to climate and energy into one section. Additionally, have added several criteria related to climate and energy efficiency that can be carried out on the lot or site by a builder or developer, and can also be done relatively easily and will have a credible green effect.		
	Ĺ	2) Plant evergreens to the north and west to block winter winds			
	C	3) Avoid plantings to the south.			
	1	4) Locate an alternative energy facility that would generate electricity for the home on the ot. An alternative energy facility may generate electricity using solar, wind or hydro echnologies.			
		5) The installation of energy efficient lighting located on the exterior of the home or within he lot			
	new as t	wastewater service areas, providing the open space has no existing development.	Sections 501.2 and 405.6 consist of practices encouraging siting close to mass transit and other community resources. This is an important means to mitigate the detrimental transportation-related effects of urban sprawl. However, sprawl also has negative impacts from the expansion of water and wastewater infrastructure, which NAHB does not address. EPA recommends that NAHB add		
i rototion rigonoy			a practice to encourage builders to account for these impacts when siting projects and to specifically protect open space from infrastructure development.		
	<u>1</u>	n addition, the lot [or site] complies with one of the following requirements:			
	-				
	- <u>s</u>	Option 1 – Existing Water & Wastewater Service: Locate the building on a site served by existing water and wastewater infrastructure; or			
		Option 2 – Planned Water & Wastewater Service: Locate the building within a egally adopted planned water and wastewater service area and provide new water and wastewater infrastructure for the project; or			
		Option 3: In Situ Water and Wastewater Service: Decentralized water or wastewater systems designed and operated so that they have no significant negative mpact on ground water or surface water resources (water quality and quantity and habitat) and pose no significant risk to human health.			
	new as a ws v		The standard's existing practices, as well as the additional practices suggested above, focus specifically on stormwater flow (rates, volumes, etc.). However, NAHB's standard is silent with respect to protecting surface and groundwater quality by minimizing pollutant discharges. EPA would like to see the above requirements ddded to sections 403 and 503 to ensure the protection of surface and groundwater on building sites.		
	F	Projects that are located on brownfields, greyfields or other contaminated sites with			

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			pollution levels that do not allow for infiltration should use a combination of practices that evapotranspire and harvest and reuse stormwater. Contaminated sites shall be developed	
			such that there is no interference with, or damage to, any response action at the site. Do	
			not use coal tar sealants in any application exposed to stormwater.	
				Diesel fuel combustion produces air emissions of NOx, PM, and hydrocarbons,
		Add new as follows		with serious human health and environmental impacts. This is a widespread problem; air quality is significantly impaired for large segments of the U.S. due
	JS Environmental	10110103		to PM and NOx pollution. EPA estimated that nonroad equipment was
	Protection Agency		residences hotels davcare facilities elderly housing and convalescent facilities	responsible for 24 percent of mobile source diesel NOx emissions and almost
				half of diesel PM2.5 in 2004. Despite the fact that construction equipment produces a substantial portion of diesel emissions, this issue is not addressed
			(2) Enforce idle reduction policies that limit unnecessary idling to no more than 5 - 15	by this standard. The impact of construction activity on air quality can be
			minutes or to a shorter time as required by local laws.	significantly reduced through a series of relatively simple, low-cost steps. Thus,
				the standard could add an emissions reduction package with little financial or
				technical burden to project developers. We recommend the above set of practices, which could be implemented jointly or individually.
			(4) Provide emissions control technologies to all equipment not meeting EPA Tier 4	
			standards in order to reduce particulate matter (PM) and/or nitrogen oxides (NOx) from	
			diesel engines by a minimum of 20% for 50% of the fleet used at the site. All aftermarket emissions control technologies must be verified by EPA or California Air Resources Board	
			(CARB).	
			(5) Document that all equipment uses Ultra Low Sulfur Diesel Fuel that meets ASTM	
			specifications with sulfur levels less than or equal to 15 ppm shall be utilized for non-road diesel engines and equipment.	
			(6) Submit a summary report that includes a copy of the idling/maintenance plan and	
			enforcement policy, and for each piece of equipment: the equipment number, type and	
			make; engine make, horse power and/or kilowatt hour; the emission control device, make, and model; and the type and source of fuel used.	
127	Steve Hale	Entire Chapter 5	See reason to adjust Table 303 Points	There is too much variation across the country, Availability of lots goes from
	Build Green NM		Also see suggested change to table 303 submitted	small bare to large vegetated and the variance of points to be gained does not
	Build Green NM			corelate to how green a project is. Rather than a different point requirment for each Level there should be a threshold level set and then allow all points above
				the threshold to go to "Additional Points from any category" which can go up as
				the levels go up.
			Consider the design of the interconnection of a new structure (or complex/neighborhood of	
			structures) with the existing municipal drinking water system such that dead-ends and low- flow situations are eliminated or minimized by the configuration of the water flow, location	this language as an innovative practice under 505.
	JS Environmental	Add new as	of isolation and flow control valves, and the sizing of the distribution mains.	
	0,	follows		
	Greg Washington Courtyard	Entire Chapter 5		We certified a home that in most chapters achieved gold level or betterHowever, in Chapter 5, we were not able to collect enough points to go
	Construction, Inc.			beyond bronzeTherefore, we only achieved a bronze level certification for the
	self			overall project The issue was the fact we were building the home in an
				established subdivisionThere was no slope, trees or water to protect, etcSince the home was built on a site with little to no environmental issues at
				risk, we was unable to collect any points for it It seems there may be a slight
				disconnect hereWe obviously want homes to reach their highest potential of
				certificationHowever, the way the program is in its current state, potentially creates a possible disincentive for builders to reach for anything higher than
				bronze in all categories, if you are only certified to the lowest common
				denominator We did the best we could for the price point we were trying to hit
				and are pleased with the product we put out A lot of our homes are built in
				subdivisions and this issue will come up againWe would like to be able to reach a higher level of certification, but will likely be unable to with Chapter 5
1 1				Thanks for listening

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