National Association of Home Builders



Development Checklist





Land Development Checklist

This checklist outlines the typical process developers should go through, from looking at a property prior to purchase to evaluating the site potential, obtaining development approvals, and preparing finished lots for sale to builders. Land development today involves a rigorous, comprehensive set of evaluations and approvals involving multiple parties in both the private and public sectors. This resource will help both developers and public officials better understand the many steps in the land development process, the timeline, likely costs, and required due diligence associated with residential development.



SITE CONSTRAINTS AND OPPORTUNITIES

I found a property for sale, now what do I do?

encroachments from neighboring

properties?

■ What is the reason for interest in Are there existing easements or this piece of land? covenants on this property? ■ What governmental entities have Has the owner put any other conditions on the land? jurisdiction over this property? Has the property been recently ■ Will there be right-of-way dedication required? surveyed? What is the gross and net size of Are there power lines or the property (developable area)? transmission lines crossing the property? What is the price of the property and requirements of the Are utilities available from transaction? government entities? Are there any physical Do utilities serve the property or improvements? What is the do they need to be extended? condition and approximate value? How would you rate the location What is the zoning for this for the intended market segment? property? ■ What is the highest and best use What is the zoning/land use of of the property? the surrounding properties? ☐ Is the land owner willing to sign Are there any physical an option agreement?

SITE CONSTRAINTS AND OPPORTUNITIES (CONTINUED)

Still interested in the property? Continue your research....

- Perform American Land Title Association (ALTA) land title survey
- Walk the property and take site photos
- Consider the following:
 - Rock outcroppings
 - O Low areas
 - Slopes
 - Floodplains
 - Wetlands
 - Water elements
 - High points and ridgelines
 - Land forms/unique natural features
 - Views and vistas
 - Sounds and smells.
 - Cultural and historic resources

- Is the land characterized by or exposed to:
 - O Poor soils
 - Soil erosion
 - Subsidence
 - Geologic hazards
 - Unusual noise. vibration or smells
 - Ingress and egress limitations
 - Poor surface drainage
 - High water table
 - Proximity to industrial facilities
 - Unsightly views
 - Upstream dam
 - Railroad tracks
 - Heavy air traffic
 - O Heavy vehicular traffic
 - Any other actual or apparent safety concerns?
 - O Are special consultants needed?
- Inventory natural resources
 - Topography
 - Forest cover
 - Natural or man-made bodies of water
 - Wetlands delineation
 - Floodplains
 - Wildlife
 - Soils and rock
 - Steep slopes
 - Plant communities and species



Additional Investigations

Are there any waters of the ☐ Will utility relocation be required? U.S. on the site or running ☐ Are there wells on the land? through the site? Well depth? □ Have soil borings been conducted ■ Will the property require septic? to determine depth? Will a community septic tank work on the site? What are the potential access points or routes? □ Police and fire services provided? ☐ What is the frontage and depth ☐ Trash pick-up? relative to the roads? Are there any special local □ Are there adequate stormwater environmental regulations outfalls? (ex: critical area, water quality Has an Environmental Phase I. protection area)? Assessment been conducted? Is the property subject to ☐ Are there any hazardous materials Fish and Game regulations? that will require clean-up/disposal? Are there any threatened or endangered species on the site? ☐ Have preliminary perc tests been conducted? ☐ Has any portion of the site been ☐ Is there utility capacity available classified as historically to serve the property? or archeologically significant?

Development requirements come in many forms and can be imposed on this process by governments at different levels. At the local level, jurisdictions may charge permit, utility hook-up, and impact fees and establish development and construction standards that either directly increase costs on builders and developers or cause delays that translate to higher costs.

Source: Paul Emrath, Ph.D. "How Government Regulation Affects the Price of a New Home." Housing Economics. 2011.

GOVERNMENT CONSTRAINTS AND OPPORTUNITIES

What can be done on this property?

- What are the development review and approval procedures in this community?
- What is the local attitude towards new development?
- Is there a Comprehensive Plan? Master Plan?
 Growth Management Plan?
 Neighborhood Plan? What is the future community vision for this area?
- Have we obtained all of the relevant codes and ordinances (subdivision, zoning, energy, building)?
- What is the existing zoning for this property? Does the existing zoning align with the comprehensive plan?
- Is there an overlay district over this property?

- What is the time table for subdivision approval?
- Will the municipality require a donation of land or fee-in-lieu for open space, parks, schools, etc?
- O Does the municipality have inclusionary zoning or other special requirements?
- Will an Archeological study be required?
- Will a Threatened and Endangered Species study be required?
- Will a traffic capacity or impact study need to be conducted?
- O Are there natural or historic protected areas?
- Considering the net buildable area, how many units can I build on this property?
 Can I still make a profit?

PROJECT FINANCING

Will this project pencil out?

- Run a cash flow for the intended use.
- Assess lot sales prices and pace, total development cost and timing, other project costs, soft costs, and fees and determine land prices
- Calculate the loan-to-value ratios
- Know the various lending guidelines and parameters
- ☐ Gather thorough documentation to prove financial capacity and project feasibility
- □ Is AD&C financing available? Gap financing? Permanent mortgage loans?

- Does the municipality require performance guarantees? Bond? Cash? Letter of credit? Escrow?
- What municipal financing options are available in this community (ex: TIFs)?
- Has a market analysis been conducted?
- ☐ Has a feasibility study been conducted?



- Pure cost of delays in process
- Cost of applying for zoning/subdivision approval
- Costs incurred after approval/before construction (impact fees, environmental mitigation, etc.)
- Value of land dedicated/left unbuilt
- Costs of complying with changes in development standards (setbacks, road widths, etc.)

Types of Costs Incurred During Construction

- Pure cost of delays in process
- Added cost due to changes in construction codes and standards over the past 10 years
- Permit, hook-up, impact, or other fees paid by builder

Source: Paul Emrath, Ph.D. "How Government Regulation Affects the Price of a New Home." Housing Economics, 2011.



DESIGN CONCEPT **DEVELOPMENT APPROVAL PROCESS TYPICAL** STEP 2 STEP 1 **DO YOU REQUIRE APPROVALS** FEDERAL PERMITS? YES Rezoning, Variance, Federal Environmental Review or Special Exception Required? NO **Environmental Impact Statement** Adequate Public Facilities Ordinance Applies? NO Is Subdivision Involved? *Although the development aproval process is typically YES local, there are an increasing number of federal permits that may need to be obtained. Subdivision Sketch Plan The development approval process varies greatly from Staff Review one place to another, and many require several layers of local, state, and federal permits Submit Preliminary Subdivision Plan and approvals. This flow chart includes steps that are common to the development **Planning Commission Hearing** approval process in many jurisdictions. The time needed to obtain all of the approvals Submit Final Subdivision Plan and permits necessary to begin development ranges from

Planning Commission Approval

several months to many years.

STEP 3



SUBDIVISION COSTS WORKSHEET

Engineering and surveying	\$	Landscaping	\$
Soil tests	\$	Trees	\$
Rock removal	\$	Walls or fences	\$
Structure and debris removal	\$	Trails and bike paths	\$
Movement of water lines	\$	Park dedication	\$
Removal of hazardous, expansive, and otherwise defective soil	\$	Land/cash equivalentPark improvements	\$ \$
Hard soil removal	\$	Electricity	\$
Soil import/export \$	¥	Phone/cable/internet	\$
Grading	\$	Undergrounding utilities	\$
Drainage lines	\$	Gas	\$
Slope control	\$	Water connection fees	\$
Retaining walls	\$	Sewer	\$
Structures (bridges, culverts, etc.)	\$	Sewer connection fees	\$
Curbs and gutters	\$	Sewer treatment fees	\$
Pavings	\$	Septic tanks	\$
Sidewalks	\$	Pumping plants	\$
Driveways	\$	Sanitation district	\$
Median islands	\$	Storm drain fees	\$
Street lights	\$		\$
Street signs	\$	Off-tract costs – water	\$
Traffic signals	\$	Off-tract costs – sewer	\$
Water meters	\$	Off-tract costs – other	\$
Fire hydrants	\$	Permits and plan checks	\$

Inspection fees	\$	Total raw land cost	\$
Growth management	\$	Estimated number of lots	
School fees	\$	Raw lot costs (total raw	
Capital facilities fees	\$	land cost divided by estimated number of lots)	\$
Environmental assessments	\$		
Development taxes	\$		
Other fees	\$	Total land and subdivision costs	\$
Bond premium	\$	Estimated number of lots	
Property taxes	\$	Finished lot cost (total	
Home Owners Association (HOA) fees	\$	land and subdivision cost divided by estimated number of lots)	\$
Interest	\$		
Overhead	\$		
Miscellaneous	\$	Estimated retail value of finished lot \$ _	
Total subdivision costs	\$		\$
 Less projected refund advances 	\$	 Re-run project cash flow based on subdivision cost worksheet 	
Cost benefiting other land or later units	\$		
Actual subdivision costs	\$		

SITE PLAN

I have decided to purchase the property. Now what?

- Know the rules but be creative and innovative
- Will the site design require a zoning change? Special exception? Variance?
- Does the design need to be reviewed by a design or architectural review board in addition to the planning board? Fire District? Public Works?



- Create conceptual layouts
 - What is the vision and overall design concept?
 - O Product types?
 - O Lot sizes?
 - O Amenities?
 - O Green space requirements?
 - Considering National Green Building Standard Certification for land development?
 - Have I contacted the local planning department for early meetings?
 - What is my public outreach plan? What are the notification requirements?
 - O Have I engaged and met with:
 - Civic associations, neighborhood groups
 - Surrounding home owners associations
 - Adjacent property owners
 - Outline benefits but understand local issues and concerns



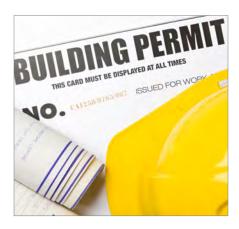
On average, regulations imposed by government at all levels account for 25 percent of the final price of a new single-family home built for sale. Nearly two-thirds of this—16.4 percent of the final house price—results from regulations imposed during the lot's development. On average, regulation accounts for a little over 57 percent of the price of a developed lot sold to a builder. A little more than one-third—8.6 percent of the final house price is the result of costs incurred by the builder after purchasing the finished lot.

> Source: Paul Emrath, Ph.D. "How Government Regulation Affects the Price of a New Home." Housing Economics, 2011.

CONSTRUCTION SEQUENCING

Once your plan is approved make sure to pull the appropriate permits

	Land use, zoning and subdivision		Clearing and demolition
	Wetlands		Topsoil removal
	Demolition		Utility relocation and offsite
	Grading		water and sewer extension
	Right-of-Way (ROW) grading		Earthwork operations - cut and fill
	and sediment control		Interim grading for future roads
	Stormwater management		and lots
	National Pollutant Discharge		Sanitary sewer install
	Elimination System (NPDES)		Storm drain install
	Storm drain and paving		Water system install
	Tree removal and protection		Curb and gutter
	Sanitary sewer main construction		Installation of streets,
	Maintenance of traffic –	parking and sidewalks	
	construction in ROW		Dry utilities
	Construction and sales trailer		Street lights
	Model homes		Trees and landscaping
	Driveway	Ready to sell finished lots!	
	Temporary construction access		
	Signage and marketing		



Install construction entrances Sediment control installation

If selling lots to a builder:

- Sign Letter of Intent and contract for sale before construction of project starts
- Create contract clause obligating builder to protect existing subdivision infrastructure improvements, tree conservation areas and stormwater Best Management Practices (BMP) from damage during house construction
- ☐ Review architectural guidelines with the Builder
- ☐ Transfer liability for governmental and regulatory obligations
- □ Transfer Use of Developers Grading and Sediment Control Permits

- Performance Guarantees:
 - Perform a site inspection and obtain partial or final release of the performance guarantee from the municipality
 - Obtain a replacement bond or Letter of Credit for builder related items
- ☐ Transfer NPDES, DNR and EPA Land Disturbance permits only after all lots are developed
- Provide homeowner or HOA transition and education documents





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The National Association of Home Builders is a Washington-based trade association representing more than 140,000 members involved in remodeling, home building, multifamily construction, property management, subcontracting, design, housing finance, building product manufacturing and other aspects of residential and light commercial construction. NAHB is affiliated with 800 state and local home builders associations around the country. NAHB's builder members will construct about 80 percent of the new housing units projected for this year.