Unit 04: Seeing the Big Picture - Creating a Site Plan

Content Area: Technology
Course(s): Architecture
Time Period: December
Length: 6 Blocks
Status: Published

Transfer Skills	Tra	nsfer	Skil	Is
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process.							

Enduring Understandings

- 1. The development of an architectural site is the most critical step within the architectural and structural design process.
- 2. Before a home can be positioned on a site it must be properly orientated according to local codes and setbacks.
- 3. Architectural site development requires the understanding of survey, plat, and plot plans.
- 4. Not all sites are suitable for residential construction due to the location of water, extreme changes in elevation, and soil that will not support a foundation.

Essential Questions

- 1. What characteristics of a site must be analyzed before a structure can be placed on it How much of a factor should the lot shape and size have on the design of a house?
- 2. How does the slope and overall geography of a lot affect the design of a house?
- 3. What characteristics of a site must be analyzed before a structure can be placed on it?

4. How is a lot valued?
Content Vacabulary
<u>Vocabulary</u> :
contour lines, slope, lot, building footprint, surveying, property line, easement, plot, variance, apron, setback,
sidewalk, lot number, acreage
Skills
1. Analyze a residential site to determine is appropriateness for house construction.
2. Create a site plan drawing for a residential development using correct symbols and scale.
3. Create a site plan for a residential lot that a custom house will be built on.
4. Create a contour line plan for a residential lot.
4. Create a contour fine plan for a residential for.
Resources
11x17 Paper / Drawing Boards / T Square / Pencil / Erasers / Rendering Markers
Standards
NJ: Grade 9 - 12
9.3 CTE: B. Architecture & Construction Career Cluster

Academic Foundations:

9.3.12.AC-DES.5 Identify the diversity of needs, values and social patterns in project design, including

accessibility standards.

Communication Skills:

- 9.3.12.AC-DES.6 Apply the techniques and skills of modern drafting, design, engineering and construction to projects.
- 9.3.12.AC-DES.7 Employ appropriate representational media to communicate concepts and project design.
- 9.3.12.AC-DES.1 Justify design solutions through the use of research documentation and analysis of data.

Problem-Solving and Critical Thinking:

- 9.3.12.AC-DES.8 Apply standards, applications and restrictions pertaining to the selection and use of construction materials, components and assemblies in the project design.
- 9.3.12.AC.4 Evaluate the nature and scope of the Architecture & Construction Career Cluster and the role of architecture and construction in society and the economy.
- 9.3.12.AC.6 Read, interpret and use technical drawings, documents and specifications to plan a project.
- 9.3.12.AC.1 Use vocabulary, symbols and formulas common to architecture and construction.

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