



Republic of the Philippines  
**Department of Education**  
REGION III  
**SCHOOLS DIVISION OF NUEVA ECIJA**

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**LEARNING ACTIVITY SHEET**  
**SPECIAL PROGRAM IN ICT 8**  
**FREEHAND DESIGN 8**  
*Third Quarter, Week 4*



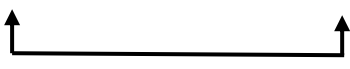
Name of Learner: \_\_\_\_\_ Date: \_\_\_\_\_


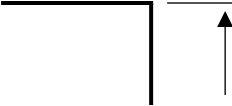

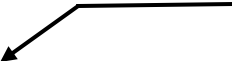


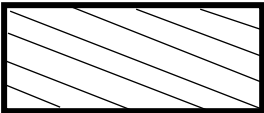
Grade Level /Section: \_\_\_\_\_

**DRAFT SITE DEVELOPMENT PLAN**

**BACKGROUND INFORMATION FOR LEARNERS**

**Alphabet of Lines.** Lines in technical drawings are part of specialized graphic language that is standardized throughout industry. Each type of line has a very precise symbolic meaning. Correct usage of this alphabet of lines is essential whether you use traditional drafting methods or CAD. These are the list of line symbols that engineers use in technical drawings to communicate specific shapes, sizes or surfaces.

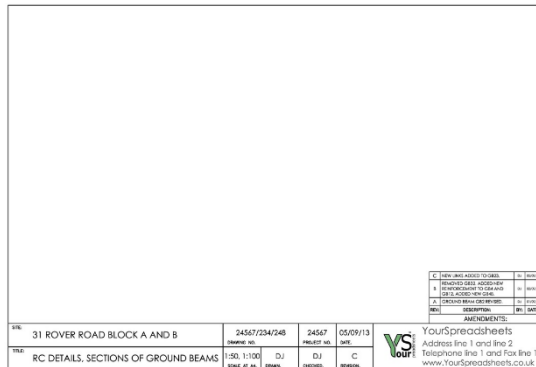
LINE TYPE	DESCRIPTION	IMAGE
Center Line	Long and short dash lines. It is used to show the center of holes and symmetrical feature.	
Construction Line	Very light and thin line use to construct layout work. It is used to indicate all visible edges of object they should stand out clearly.	
Cutting Plane Line	The cutting plane line is used to designate where an imaginary cutting took place.	

Dimension Line	Thin and dark lines use to show the size (span) of an object with a numeric value.	
Extension Line	Thin and dark lines use to show the starting and ending of dimension.	
Hidden Line	Short dash line used to show surfaces, edges, or corners of an object that are hidden from the view.	
Leader Line	Leaders are used to indicate the part of the drawing to which note refers.	
Object/ Visible Lines	Thick dark line use to indicate all visible edges of an object, they should stand out clearly in contrast to other lines so that the shape of an object is apparent to the eye.	
Break Line	Medium lines drawn at 45 degrees use to show interior view of solid. It is used to shorten the view of a long part.	
Short and Long Break Line	Short and long medium line used to show cutaway view of a long section.	

## TITLE BLOCK AND BORDERS

A **border** is a line drawn around the inside edge of the paper. Usually this is 10mm from the edge of the paper. It is basically a rectangle drawn precisely and inside this rectangle is the design area.

A **title block** is normally drawn at the bottom of the paper. Inside the title block is printed important information such as **Name, Title and Date**. All the lines are dark with the exception of the guidelines between which the printing is positioned. Title block can be in portrait or landscape position.



TITLE BLOCK IN LANDSCAPE MODE



TITLE BLOCK IN PORTRAIT MODE

## LETTERING

**Technical lettering** is the process of forming letters, numerals and other characters in technical drawing. It is used to describe, or provide detailed specifications for, an object.

### Proportion and Size of Letters

1. **Normal Letters**
2. **Condensed/ Compressed Letters** - Letters which are spaced together with a narrow width in proportion to the height. They are used when the space is limited.
3. **Extended Letters** - These letters are drawn wider than the normal letters. When there is a larger space available, you may use this kind of letters.

### Types of Lettering

1. **Gothic Style** - This is considered the easiest style of letter because all letters are composed of uniform width elements.
2. **Roman Style** - A style of letters which is made up of thick and thin elements.
3. **Text Style** - This is commonly used on land titles, diplomas, certificates, and some wedding invitations.

**4. Italic Style** - These letters may be gothic or Times New Roman which may be done to emphasize parts or subparts of text presentations.

## NOTES AND LEGENDS OF ARCHITECTURAL PLANS

In order to fit all the information about a layer of a building onto a page, construction drawings and architectural drawings are drawn. One of the main functions of graphic symbols on construction drawings is to reference other drawings

### Plan Symbols

Symbol	Definition
	Wall section No. 2 can be seen on drawing No. A-4.
	Detail section No. 3 can be seen on drawing No. A-5.
	Building section A-A can be seen on drawing No. A-6.
	Main object line
	Hidden or invisible line
	Indicates center line
	Dimension lines
	Extension lines
	Symbol indicates center line
	Indicates wall surface
	Indicates north direction

Wall		Bathtub	
Hinged Door		Freestanding Sink	
Bifold Door		Toilet	
Pocket Door		Shower	
Sliding Door		Cabinet with Sink	
Double Hinged Door		Stove or Range	
Doorway		Fridge	
Single Casement Window		Washer	
Double Casement Window		Dryer	
Stairs		Cabinet	
U Stairs with Landing		Hot Water Heater	
L Stairs with Landing		Bed	
Curved Stair		Sofa	
		Dining Table with Chairs	

within the set.

## LEARNING COMPETENCY

- Identify the different Alphabet of Lines
- Make a simple title block
- Distinguish the difference between the different lettering styles.
- Identify the different notes and legends of Architectural plans.

## ACTIVITIES

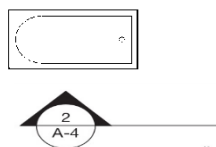
### ACTIVITY No. 1

*Direction:* Identify what is being asked.

\_\_\_\_\_ 1. This line is used to designate where an imaginary cutting tool place.

\_\_\_\_\_ 2. This line is used to show surfaces, edges, or corner of an object that are hidden from view.

\_\_\_\_\_ 3. What architectural symbol is this?




\_\_\_\_\_ 4. What architectural symbol is this?

\_\_\_\_\_ 5. This lettering style is commonly used on land titles, diplomas, certificates, and some wedding invitations.

\_\_\_\_\_ 6. This lettering style is considered the easiest style of letter because all letters are composed of uniform width elements.

\_\_\_\_\_ 7. This is normally located at the bottom of the paper, where the name, title and date of the work locate.

\_\_\_\_\_ 8. This block can be in portrait and landscaped position.

\_\_\_\_\_ 9. What architectural symbol is  this?

\_\_\_\_\_ 10. These lines are used when dimensioning an object.

## ACTIVITY No. 2

Make a title block. Write the necessary information by the use of applicable lettering style. Inside the title block draw at least three (3) Alphabet of Lines and five (5) legends of Architectural design.

## RUBRICS

Attainability	50%
Creativity	50%
<b>Total</b>	<b>100%</b>

## REFLECTION

What is/are the importance of:

- Alphabet of Lines
- Title block and borders
- Different lettering styles &
- Notes and Legends of Architectural plans

## REFERENCES:

Technical Drafting by Billy Jack DR. Pasion  
Architectural Plan

<https://www.construction53.com/2011/09/blueprint-the-meaning-of-symbols/>

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