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ACKNOWLEDGEMENT

We express our appreciation to the Hewlett-Packard Company and its employees for their support and cooperation. CSC

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TABLE OF CONTENTS

pag	e
Introduction Wilson As District	
Welcome to Diagraph Before You Start	4
Before You Start	
Help Computer Multi-Level Function Keys Museum	$\frac{4}{6}$
Getting Started	
Diagraph and the HP 150	6
The Softlock System	
Installation	7
Formatting Work Discs	7
Installing the Program Disc	8
Copying the Symbol and Pictorial Libraries	
Diagraph and P.A.M	
Just for Practice	1
Fundamental Concepts	
The Lesson Plan	4
A Review of The Help Facility	5
Loading and Saving Files	.5
Lesson 1 — Change Symbol	
2 — Add/Delete Symbol	
3 — Move/Size Symbol	2
4 — Copy Symbol	
5 — Connect Symbol	8
6 — Insert Token	
7 — Draw Lines	34
8 — Text Menu	8
9 — Move/Size Text	
10 — Text Fonts	5
Mini-Lessons	19
Application Exercises	50
The Symbol Libraries Organization of the Libraries	- 1
Graphic Aids	
Signs	
Icons	
Pictorials 8	_
Applications	
rippincumono	, 1

3

WELCOME TO DIAGRAPH

Diagraph is a powerful, multi-function graphics product that fully utilizes the touchscreen facility of the HP 150. You can use Diagraph to create a variety of "clipart" presentation aids in addition to organizational charts, forms, signs, word charts and flow charts, even if you have little or no experience in graphic design.

A diagraph is a composition of symbols, text, and lines. You can choose from a library of more than 1500 symbols organized into categories including graphic aids, geometrics, signs, icons and pictorials. Any symbol can be moved, sized, stretched, rotated and copied. Simply touch the screen to select a symbol and position it. Connect symbols and draw freeform lines using the graphics cursor. Add text in any of the thirteen type fonts. You can size, stretch, rotate and move the text anywhere on the diagraph. And there's more but best of all . . . Diagraph is fun to use!

BEFORE YOU START

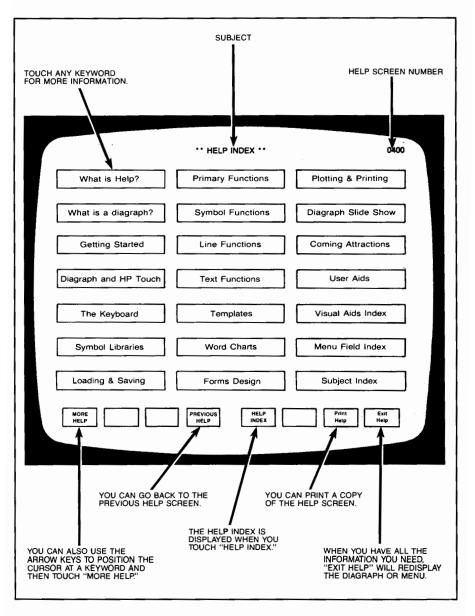
This handbook was designed to teach you quickly the fundamental concepts of Diagraph. It isn't necessary to read a 200 page manual to understand Diagraph; instead, we've provided ten lessons based on the principle of ''learning by doing.'' By working through each of the ten lessons in order, you'll quickly gain a "first-hand" understanding of how Diagraph works. Do not skip lessons or do them out of order. Investigate the Mini-Lessons and Application Exercises at the conclusion of the Lesson Plan to reinforce your understanding of the fundamental concepts. Please do not attempt to do the Mini-Lessons or Application Exercises until you have completed the ten lessons.

HELP

One of the reasons Diagraph is so easy to use is that we have built in a HELP facility to answer your questions. Help screens are available simply by touching the key. We've eliminated the need for a cumbersome reference manual and put the information at your fingertips.

The touchscreen has added another dimension to the way we communicate with the HP 150. For information about a field on one of the Diagraph menus, touch the field and then touch . There is also an Index of Help screens you can display by touching the key. Touch a topic listed in the Help Index and more Help is displayed.

Keywords on related topics are highlighted in many of the Help screens. For more information about a topic, touch the keyword. You can then return to the previous Help screen by touching Once you have the information you need, touch to redisplay the diagraph.



MULTI-LEVEL FUNCTION KEYS

As shown above in the picture of the Help Index screen, Diagraph uses the eight function keys at the bottom of the screen. Throughout this Handbook, we will instruct you to "touch" function keys based upon the labels shown on the screen for each key. If you prefer, you can press the corresponding function key on the keyboard (f1 to f8) instead of touching the screen.

The function keys communicate commands to Diagraph. Direct commands, such as DELETE SYMBOL, have an immediate impact on the diagraph. Higher level commands merely change the level of the function keys, giving you access to another set of commands. For instance, when you touch



the function keys will change and the Text functions will appear:



The current level is indicated by the first word in the message line at the top of the screen. The message line also displays generalized instructions that suggest what you should do next.

The f8 key at each level is the HELP key. For information about the functions at any level, touch

DIAGRAPH AND THE HP 150

Diagraph was designed for the HP 150 with 256K of memory. HP flexible and hard disc units are supported, as are the 2, 4, 6, and 8 pen HP plotters (either HP-IB or serial interface). You can also print a diagraph on the HP 150 internal printer or any of the other HP graphics printers.

Diagraph is supplied on 3½ inch micro-diskettes. The four master discs provided are labeled Program Disc, Symbol Library #1, Symbol Library #2 and Pictorial Library #1. Once you have installed the Program Disc and made copies of the Symbol and Pictorial Libraries, as explained in the installation procedure that follows, store the master copies in a safe place.

THE SOFTLOCK SYSTEM

Your copy of Diagraph is protected from unauthorized use by CSC's SOFTKEY. Our approach to software security features a portable SOFTKEY which can be plugged in at the back of the computer or the plotter. Unlike some copy protection techniques, the SOFTKEY allows you to make archival copies of Diagraph and simplifies the installation of the software in a Winchester disc drive environment.

The SOFTKEY has NO effect on the operation of the equipment or on other software products and the SOFTKEY can be left attached to the computer. To prevent unauthorized use of the software, simply remove the SOFTKEY. But remember, Diagraph will NOT operate unless the SOFTKEY is in place.

INSTALLATION

The installation procedure consists of installing the Program Disc on a formatted work disc or a Winchester disc drive and then making copies of the Symbol and Pictorial Libraries.

If you have a Winchester disc drive, proceed to INSTALLING THE PROGRAM DISC. When installing Diagraph in a dual disc environment, you must first format four blank work discs. The first disc is used to install the Diagraph program. The other three discs are used to make copies of the Symbol and Pictorial discs.

FORMATTING WORK DISCS

The procedure for formatting the discs is summarized below and described in detail in Chapter 7 of your HP 150 Owner's Manual, entitled "Formatting a Disc."

- 1. Insert the HP-supplied Operating System disc containing the FORMAT program in one of your disc drives.
- 2. Touch Bread Discs . Touch Format . Touch Applic .
- Place a new, blank disc in one of your disc drives and specify this disc drive by touching the corresponding letter on the FORMAT menu.
- 4. You will be prompted to enter a "label" of up to 11 characters. We suggest you use "Graphics" for each of the four discs. Press the Return key.
- 5. Touch Start Do NOT use the "Copy System" option of FORMAT as there is not enough room on the disc for both Diagraph and the MS-DOS Operating System.

6. When "Operation Complete" appears in the message line, remove the formatted disc, touch and repeat steps 3 through 6 for each of the remaining three work discs.

INSTALLING THE PROGRAM DISC

In order to access Diagraph from P.A.M., the HP 150 Personal Applications Manager, you must install the Diagraph Program Disc, containing the program and several data files, using the HP INSTALL utility as described below.

- 1. Place a copy of the HP-supplied "Disc Applications" in one of your disc drives.

 Touch Geread When the Selection Menu appears on the screen, touch "INSTALL" to select the application and then touch Applic .
- 2. A new set of function keys will appear on the screen. Touch Applic .
- 3. Place the master Diagraph Program Disc in any one of your drives and the formatted work disc in another. You must then specify the drive letter of the TO and FROM drives. The FROM drive contains the master Diagraph Program Disc and the TO drive contains the formatted work disc.
- 4. Touch Application "DIAGRAPH" should appear. If the program name does not appear, touch Obess .
- 5. Touch "DIAGRAPH" to select the application and then touch
- 6. After the "INSTALL COMPLETE" message appears, touch the work disc and label it "Diagraph Program Disc." Replace the "HP Disc Applications" disc and touch the work disc and the work disc and touch the work disc and touch the work disc and touch the work disc and the work di

COPYING THE SYMBOL AND PICTORIAL LIBRARIES

After installing the Program Disc, you should make working copies of the Symbol and Pictorial Library discs using the HP COPY/BACKUP program as described below. If you are familiar with the COPY command under MS-DOS, you can "COPY A:*.* B:."

Several files appear, under the same names, on both the Symbol Library and Pictorial Library discs. These identical files have been duplicated to insure their availability if either of the discs is removed during a Diagraph session.

- 1. Touch ''COPY/BACKUP'' to select the application and then touch $$\stackrel{\text{Start}}{\longrightarrow}$$.
- 2. You will be asked, "Where are the files coming from?" Insert the Symbol Library #1 disc in drive A, and the second work disc in drive B.

NOTE: If installing on a Winchester disc drive, your destination drive must be the root directory, the same one you used to install the Diagraph Program Disc.

- 3. Type in the letter of the "FROM" (Symbol disc) drive, followed by a colon (for example, "A:"). Press return. A directory of the Symbol Library #1 disc will be displayed. Type in the letter of the "TO" (work disc) drive, followed by a colon (for example, "B:"). Press return.
- 4. Touch Copy Files . Touch All . Touch Copy

NOTE: If installing on Winchester drives, when you are asked to replace new files with existing ones, touch . There are certain data files that are duplicated on the Program, Symbol, and Pictorial Discs.

5. Touch when the copy operation is complete and switch discs:

Replace the Symbol Library #1 disc with the Symbol Library #2 disc.

Replace the work disc with your third work disc.

It is a good idea to write-protect the work disc you just removed and label it "Symbol Library #1."

- 6. Touch Peread Oiscs . Touch All . Touch Copy .
- 7. Touch when the copy operation is complete and switch discs:

 Replace the Symbol Library #2 disc with the Pictorial Library #1 disc

Replace the Symbol Library #2 disc with the Pictorial Library #1 disc. Replace the work disc with your fourth work disc.

Write-protect the work disc you just removed and label it "Symbol Library #2."

- 8. Touch Discs . Touch Select All . Touch Copy .
- 9. When the copy operation is finished, remove the discs. Write-protect the work disc and label it "Pictorial Library #1."

The installation procedure is now complete. Store the master copy of the Diagraph Program Disc and the Libraries in a safe place.

DIAGRAPH AND P.A.M.

Once you have completed the installation of the Diagraph Program Disc, insert the Program Disc in drive A (left drive) unless you are using a Winchester disc drive.

The P.A.M. menu lists all of the applications that are installed under P.A.M. Among them should be "DIAGRAPH." If "DIAGRAPH" does not appear, touch "DIAGRAPH" and then touch star to load the Diagraph program. When the program has loaded, a message line at the top of the screen will prompt you to:

"Please PRESS, then RELEASE the button on the SOFTKEY"

The computer will beep, and unless the button is pressed within a reasonable period of time, the program will return to the P.A.M. menu.

Unless you are using a Winchester disc drive, another message will appear after you have pressed the button on the Softkey:

Cannot find HELP file, insert the Symbol Library #1 Disc and press RETRY

Remove the Program Disc and insert the Symbol Library #1 disc in the left drive and the Pictorial Library #1 disc in the right drive; then touch

Diagraph will (load the defaults file and then) display a WELCOME screen with further instructions.

During a Diagraph session, you can replace the library discs with work discs for loading and saving files. As the Symbol Library #1 disc contains the Help files, if you remove it to load or save a diagraph, you should replace it once the Load/Save operation is complete.

If you replace one of the library discs with a work disc and load a diagraph that calls for a symbol or a special text font that is not present on the system, a message at the top of the screen will inform you which disc should be inserted to complete the loading process. For example:

Cannot find 'Pictorial Library #1', CANCEL or insert disc and press RETRY

As the diagraph file has already been read into memory, if the above message appears, remove the work disc, insert the library disc called for and touch

LEAVING DIAGRAPH AND RETURNING TO P.A.M.

If you have a standard HP 150 configuration (256K of memory and dual 3½ inch drives), replace the MS-DOS Operating System disc in drive A before you exit from Diagraph. When you touch OCCARAPH , Diagraph will reload the operating system.

If you are using a Winchester disc drive, when you touch the operating system will be reloaded automatically.

If your HP 150 has 384K of memory or more, Diagraph will not need any of P.A.M.'s memory and it will not be necessary to reload the operating system.

Notes for experienced MSTI-DOS users:

If you have 256K of memory you MUST run under P.A.M. (standard method) or boot up without P.A.M. (by modifying your CONFIG.SYS file or renaming it). You cannot run Diagraph if you exit to MSTALCOMMANDS from P.A.M. and type DIAGRAPH. There is not enough memory to run DIAGRAPH if P.A.M. and MSTALCOMMANDS are coresident.

If you have 384K or more of memory you may elect not to run under P.A.M. by typing DIAGRAPH from the MS^{TI}-DOS command line.

JUST FOR PRACTICE

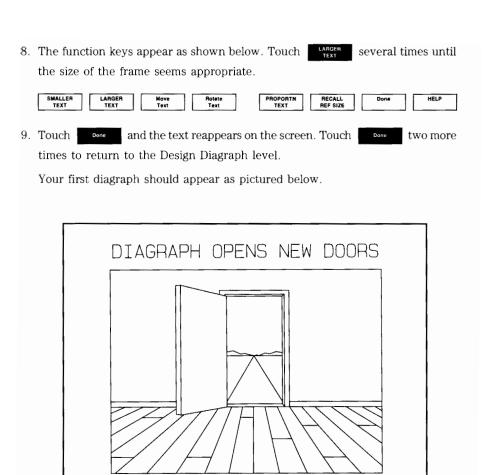
Now that you have installed and loaded Diagraph, the screen titled "WELCOME TO DIAGRAPH" will be displayed. If your HP 150 uses dual disc drives, Symbol Library #1 should be in the left drive and Pictorial Library #1 in the right drive.

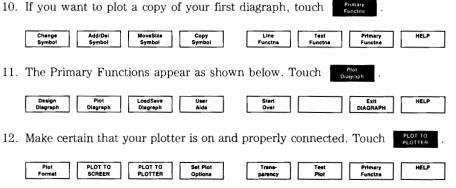
The following exercise will acquaint you with a few of the fundamental concepts of Diagraph. Later exercises will examine in detail each of the functions so don't worry about missing anything while creating your first diagraph.

1. When you first load Diagraph or "Start Over" the function keys are displayed as shown below. Touch to begin the exercise.



2. The function keys change and an Initial Pattern Menu appears on the screen. We'll start with a "default" pattern, so just touch the function key labeled PATTERN UNIFORM PATTERN 3. The large blinking rectangle extends almost to the border of the diagraph. To change the blinking symbol from a rectangle to another symbol, first touch the function key labeled 4. The Symbol Menu appears at the top of the screen with the cursor positioned in the SYMBOL # field. Change the SYMBOL # from 1001 (a rectangle) to 4341. to indicate that you have completed the change in the Symbol Menu. Diagraph reads the symbol from the Pictorial Library #1 disc and draws it on the screen. 5. To add a line of text to the diagraph, touch The function keys change as shown below. Touch CREATE TEXTNODE OELETE TEXT NEXT TEXT 6. The Text Menu appears on the screen with the cursor positioned on the top line. Type **DIAGRAPH OPENS NEW DOORS** in capital letters. Touch indicate that you have completed the task. The text appears on the screen above the symbol. 7. The last step is to enlarge the text. Touch The function keys change as shown below. Touch The text disappears temporarily but the blinking frame indicates the size and position of the text.





THE LESSON PLAN

Now that you have completed your first diagraph, you have a better understanding of how Diagraph works and the process of creating a diagraph.

The Lesson Plan, consisting of ten lessons, was developed to further your understanding of Diagraph. The lessons are grouped by the three major functions. Following the last lesson in each group, there is a review session that summarizes the preceding lessons.

Symbol Functions	Line Functions	Text Functions
1. Change Symbol	5. Connect Symbol	8. Text Menu
2. Add/Delete Symbol	6. Insert Token	9. MoveSize Text
3. MoveSize Symbol	7. Draw Line	10. Text Fonts
4. Copy Symbol		

Each of the lessons builds on the information and skills acquired in previous lessons; therefore, to get the most out of the lessons, you should not skip lessons or do them out of sequence. You should resist the temptation to experiment and improvise during the lessons because each lesson is structured to cover specific points in the least possible time. Once you have completed the lessons, go back and experiment.

The object of each lesson is to produce a diagraph that is similar to that pictured at the end of each lesson. If you are interrupted at any point in a lesson and want to *resume* the lesson at a later time, simply save the diagraph following the procedures described in the next section "Loading and Saving Files."

If you want to *restart* a lesson, the arrangement of the symbols, connectors and text on the screen at the beginning of each lesson has been saved as a file on the Program Disc. The files are named LESSON1, LESSON2, etc. Just enter the appropriate filename in the Drive & Filename Menu for the lesson you wish to restart and load the diagraph file.

Following the ten lessons, a series of Mini-Lessons will reinforce your understanding of the fundamental concepts. Each Mini-Lesson is a diagraph that can be loaded from the Program Disc.

There are also five Application Exercises that utilize your new skills to create and develop an organizational chart, a form, a word chart, a bar chart and an office layout.

A REVIEW OF THE HELP FACILITY

The lessons were designed to eliminate the question, "What do I do next?" Each step is clearly documented as to which key you should touch, what data should be typed in the menus, where to add symbols and text. However, there will be occasions when you may wonder, "What other choices do I have?" or "Is there any way to . . .?"

We were able to keep the printed text to a minimum because the Help facility is available to answer your questions about the use of the different functions and menu fields.

As the Help facility is such an important asset in the operation of Diagraph, you should review "What is Help" before proceeding with the first lesson.

The rightmost function key displayed on the screen is labeled HELP. Touch

A help screen appears with the Help function keys displayed as shown below.

Touch

HELP
INDEX.



Touch the entry ''What is Help.'' When you complete your review of the Help facility, touch

LOADING AND SAVING FILES

A diagraph can be saved as a file in a format that allows you to load and alter it at a later time. You should be able to store approximately 100 diagraphs of average complexity on a 3½ inch diskette (single sided).

In addition to the diagraph files used to restart the lessons, the review sessions for the Symbol, Line and Text functions are also loaded from the Program Disc. The following exercise will explain how to load and save a diagraph.

From the Design Diagraph level touch shown below. To display the Drive and Filename Menu, touch bagraph.

Design
Diagraph

15

If you are using dual disc drives, insert the Program Disc in the left drive and type **A**: in the Drive/Directory field. If you are using a Winchester disc drive, insert the Program Disc and type the drive designation (A—I). In either case, type **TESTLOAD** in the Filename field and touch

Drive/Directory

A:

Filename

TESTLOAD .CSC (Chart) .CSG (Graphics)

LIST LOAD SAVE LOAD SAVE GRAPHICS GRAPHICS Functins HELP

To minimize the possibility of accidentally erasing a diagraph by loading another diagraph into memory, a message will appear at the top of the screen.

File 'A:TESTLOAD.CSC' found, confirm Load (Touch YES or NO)

Touch to confirm the loading of the diagraph which is then read from the Program Disc. The diagraph stored as **TESTLOAD** will appear on the screen.

To save the diagraph now displayed, remove the Program Disc from the left drive and insert a formatted work disc. Touch Primary and then Drive and Filename Menu appears on the screen, change the filename to **TESTSAVE** and touch OLAGRAPH .

IMPORTANT: The following lessons use symbols that are stored on the Symbol Library #1 and Symbol Library #2 discs. Remove the work disc from the left drive and replace it with the Symbol Library #1 disc. Replace the Pictorial Library #1 disc. in the right drive with the Symbol Library #2 disc.

If you have any questions about loading and saving diagraphs, touch

HELP

LESSON #1

TOPICS: Selecting symbols by touch. The *Change Symbol* function. The Symbol Menu including the SYMBOL # field, linetypes for drawing a symbol and how to shade symbols. The importance of the *Proportion Symbol* function.

Before starting Lesson 1, we'll ''Start Over'' to clear the screen. The Primary function keys should be displayed as shown below. Touch



A message will appear at the top of the screen:

Are you sure you want to Start Over? (Touch YES or NO)

This precaution minimizes the possibility of erasing the diagraph on the screen by accident. Touch to confirm the Start Over procedure. Diagraph clears the screen and then displays "WELCOME TO DIAGRAPH."

1. To begin Lesson 1, touch Design The Initial Pattern Menu appears on the screen as it did when you created your first diagraph. This time we'll create a uniform pattern of two symbols across and three symbols down. Fill in the menu as shown below:

the number of symbols across the screen the number of symbols down the screen 3

- 2. Touch PATTERN . A pattern of six *rectangles* is drawn on the screen. The left symbol on the top row should blink. The blinking symbol is the "active" symbol. Touch one of the other symbols. The selected symbol blinks, indicating that it is now the active symbol.
- 3. Touch the right symbol on the top row. To alter the characteristics of the symbol, touch Change .

Change Symbol Sy

4. A dotted *rectangle* frames the symbol to be changed. The Symbol Menu appears at the top of the screen with the cursor positioned in the SYMBOL # field. Change the SYMBOL # from 1001 to 1003. Use the right arrow > key to move the cursor to the Linetype field and change the Linetype from 1 (solid line) to 2 (dashed line). Touch for information about other line types.

SYMBOL # 1003 Pen P Linetype 2 Bold? N Frame? N Shading Pattern 0 Pen S

5. Touch to draw the symbol in a dashed line.

Cancel Specify Proportn Filp Done HELP

The *rectangle* becomes a *triangle*. Note that the blinking frame surrounds the symbol but does not assume the shape of the symbol.

6. Touch the left symbol of the middle row. Touch



7. Press the "home" arrow key (just above the up arrow) to move the cursor to the beginning of the SYMBOL # field. Change the SYMBOL # from 1001 to 2082. Use the tab key to move the cursor to the Shading Pattern field and change the shading pattern from 0 (none) to 9 (solid). Touch

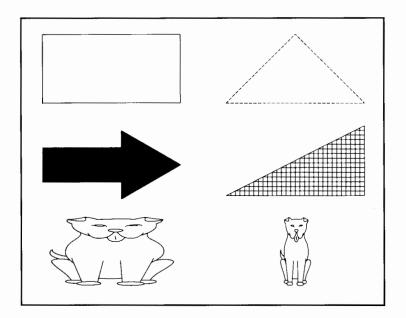


- 8. Touch the symbol directly to the right. Touch Change the SYMBOL # from 1001 to 1009. Move the cursor to the Shading Pattern field and change the shading pattern from 0 (none) to 61 (checkerboard). Touch
- 10. Touch the symbol directly to the right. Change the SYMBOL # to 2278 but this time indicate that the symbol has a special proportion by touching

 An asterisk appears in the Proportn Symbol key. Touch to draw the symbol. The difference is apparent.

While both images on the bottom row are of the same height, the size of the frame surrounding the symbol on the left has been adjusted to maintain the proper proportion of height to width. Generally, when you are working with symbols that have a special proportion, you should touch Proportion Symbol before touching Done.

The diagraph on the screen should appear as pictured below.



LESSON #2

TOPICS: The *Add Symbol*, *INSERT SYMBOL* and *DELETE SYMBOL* functions.

The use of the arrow keys to control the graphics cursor. How the graphics cursor can be used to add a symbol at a specific location.

Begin Lesson 2 with the diagraph displayed on the screen from Lesson 1. You should be at the Design Diagraph level with the function keys displayed as shown below. If you restarted the lesson by loading "LESSON2," you will also be at the Design Diagraph level.

1. Touch $\frac{Add\ Del}{Symbol}$ to display the add and delete symbol functions.



2.	Note that the DELETE SYMBOL function key is in capital letters to indicate that the function will have an immediate effect on the diagraph versus changing function levels. Touch the <i>rectangle</i> on the top row and when it blinks, touch object the triangle on the top row.
	Add Symbol DELETE Symbol Done HELP
3.	To add a symbol, touch symbol Menu appears at the top of the screen. A dotted rectangle frames the symbol that will be used to determine the size, proportion and orientation of the symbol to be added. Type 2298 in the SYMBOL # field and touch one.
	SYMBOL # 2298 Pen P Linetype 1 Bold? N Frame? N Shading Pattern 0 Pen S
4.	A message will appear at the top of the screen:
	ADD — Touch the screen to add the symbol specified in the menu
	Touch the screen on the left of the top row to add a <i>house</i> in the space that was occupied by the <i>rectangle</i> .
5.	To add a different symbol, touch specify .
	Specify Symbol Done Done HELP Cursor
	The Symbol Menu will appear at the top of the screen. Change the SYMBOL $\#$ from 2298 to 1002 (a $circle$). Touch \bigcirc ODE \bigcirc .
6.	The ADD message will appear again at the top of the screen. Touch the screen to the right of the <i>arrow</i> to add the <i>circle</i> . The symbol is read from the Symbol Library #2 disc and an <i>ellipse</i> appears on the screen. Like the dog on the bottom row, a <i>circle</i> has a special proportion. Unless you specify that the symbol to be added has a special proportion, Diagraph uses the proportion of the symbol outlined by the dotted frame when the Symbol Menu is displayed on the screen.
7.	To correct the error, simply touch disappear.
	Specify MoveSize DELETE Turn ON Done HELP
	Symbol LAST Cursor
0	

8. Touch symbol to restore the Symbol Menu and function keys. When the Symbol Menu appears, touch symbol and then one .



When the ADD message appears, touch the upper right hand corner to add a circle.

9. To add a symbol at a specific location with more precision than is possible by touching the screen, touch touch touching the screen, touch to the screen touch touch touch to the screen to the screen touch to the screen touch to the screen touch to the screen touch to the screen to the screen to the screen touch to the screen touch to the screen to the screen touch to the screen to the screen touch to the screen touch to the screen to the screen touch to the screen touch to the screen to the screen to the screen touch t

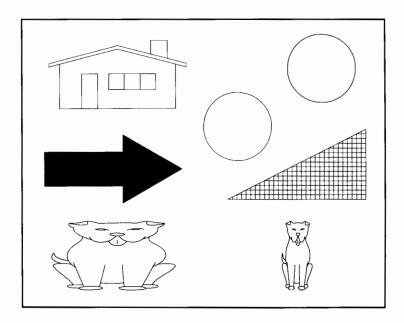
						_	
Specify	MoveSize	DELETE	Turn ON		Done	1	HELP
openi,							
Symbol	 Symbol	LAST	Cursor	1 1	1 '	1	

10. A crosshair cursor (+) appears in the center of the *circle*. Use the left arrow < and down arrow V keys to position the cursor in the area below and to the left of the *circle*. Touch to add another *circle* at the location indicated by the cursor.



Touch to indicate that you have finished adding symbols.

The diagraph on the screen should be similar to the one pictured below.

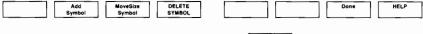


LESSON #3

TOPICS: The *Move*, *Size*, *Rotate* and *Flip Symbol* functions. The use of touch and the arrow keys to adjust the size, shape and orientation of the symbols displayed on the screen.

Begin Lesson 3 with the diagraph displayed on the screen from Lesson 2. You should be at the Add/Delete level with the function keys displayed as shown below. If you restarted the lesson by loading "LESSON3," you will be at the Design Diagraph level.

1. To provide extra room to maneuver the symbols, delete the *house* and two *circles*.



2. To move the *triangle*, touch it and then touch size symbol function keys. Touch Move symbol symbol . Move symbol to display the move and

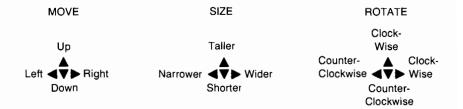


3. The symbol is temporarily erased from the screen but the blinking frame shows the height and width of the symbol. A message is displayed at the top of the screen.

MOVE — Touch the screen at the desired location or use the arrow keys

Touch the screen just above the active (blinking) symbol. The symbol will move up and the blinking frame will be centered around the point you designated.

4. Depending upon the function selected, the arrow keys can be used to:



Press the right arrow > key once to move the symbol the minimum distance to the right (one pixel). If you hold the key down, the blinking frame will move

continuously in the direction of the arrow. Move the frame up and to the right until it is about ¼ of an inch from the top and right margins of the diagraph. Touch when you have completed the task.

5. Touch the solid-shaded *arrow*. Touch symbol . Use the up arrow \land key to move the symbol so there is room to increase the height of the symbol in both both directions (up and down). To change the size of the symbol, touch and use the up arrow \land key to increase the height of the symbol. Use the left arrow < key to narrow the width of the symbol. Touch when the width of the symbol is about $\frac{1}{2}$ the height.

6. To rotate the solid shaded *arrow*, touch symbol. Press the right arrow > key to rotate the blinking frame clockwise. You can also touch the clockwise and when you have rotated the symbol 90 degrees.

COUNTER- Size	Move	CLOCK-	Filp	Done	HELP
CLOCKWSE Symb	ol Symbol	WISE	Symbol		

7. Touch the *triangle*. Touch symbol. Press the left arrow < key to flip the image to the left or touch . Note that flip is different from rotate and that you cannot rotate the triangle to reproduce the orientation of the flipped symbol. Press the right arrow > key or to restore the symbol and then the up arrow ∧ key or to invert the symbol. Touch the symbol to rouch the symbol.

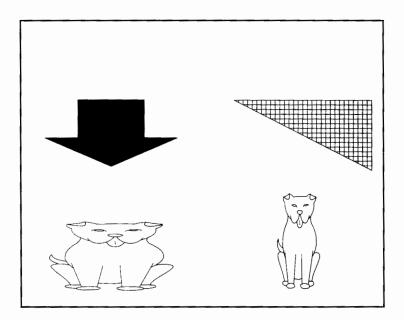


- 8. Touch the *dog* in the lower right hand corner. Touch symbol up so there is room to make it larger and then touch the up arrow ∧ key to increase the height of the symbol. Touch notice the distortion introduced by increasing the size of a proportional symbol in only one direction.
- 9. To correct the proportion, touch frame assumes the standard proportion of the symbol. Now touch several times until the blinking frame is noticeably larger in both directions. Touch to redraw the symbol. LARGER SYMBOL and SMALLER SYMBOL maintain the current proportion of the symbol.

10. To precisely align one symbol with another symbol, touch symbol. The function keys will change as shown below. Touch the arrow to select it as the reference symbol and then touch symbol. Touch the triangle and when the frame blinks, touch to find to of the arrow. Touch to return to the MoveSize Symbol level.



The diagraph on the screen should be similar to the one pictured below.



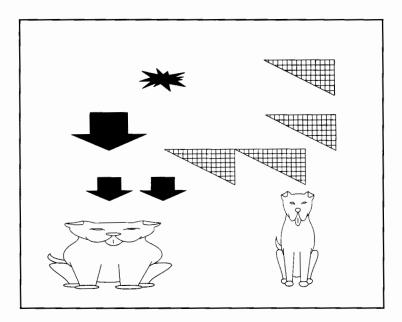
LESSON #4

TOPICS: The *Copy* and *Switch Symbol* functions. The interaction of the *MoveSize* and *Add Symbol* functions when copying symbols. The use of the arrow keys and the *INSERT SYMBOL* function to copy symbols.

Begin Lesson 4 with the diagraph displayed on the screen from Lesson 3. You should be at the MoveSize Symbol level with the function keys displayed as shown below. If you restarted the lesson by loading ''LESSON4,'' you will be at the Design Diagraph level.

1.	To make room on the screen to copy symbols, touch the <i>arrow</i> and then size of the <i>arrow</i> and the <i>triangle</i> so that each is about one half of its current size. Touch twice to return to the Design Diagraph level.
	Change Size Move Rotete Flip Align Done HELP Symbol Symbol Symbol
2.	Touch the triangle. When it blinks, touch symbol .
	Change Symbol MoveSize Copy Line Text Primary Functns Functns HELP
3.	A dotted rectangle frames the symbol to be copied. Touch the middle of the screen to make a copy of the <i>triangle</i> . Press the right arrow > key to make a copy immediately to the right. Touch outson. When the cursor appears, move it to an area above the framed <i>triangle</i> and touch outson.
4.	To make a copy of the <i>arrow</i> , you must "switch" the dotted frame that designates the symbol to be copied. Touch symbol . Touch the <i>arrow</i> and when the frame blinks, touch one. The dotted frame now appears around the arrow. Move the cursor down and touch symbol to make a copy.
5.	Touch MoveSize Symbol and reduce the size of the symbol as indicated by the frame that surrounds the <i>arrow</i> . Touch Done twice to return to the Copy level. Note that when you return to the Copy level, the dotted frame now surrounds the <i>arrow</i> . Move the cursor to the right and touch SYMBOL .
6.	When arranging symbols on the screen you may find that a symbol you need isn't present and so you must "add" rather than "copy" the symbol. For that reason, the Add Symbol function is available at the Copy Symbol level as shown below. Touch Symbol Symbol Symbol Symbol Symbol Symbol Done Melp Symbol Sy
7.	The Symbol Menu appears at the top of the screen. Change the SYMBOL # from 2082 to 1061.
	Specify Symbol MoveSize Symbol Turn OFF Cureor TWSERT SYMBOL HELP
	Touch Position the cursor above the <i>arrows</i> and to the left of the top <i>triangle</i> . Touch to add the new symbol.

The diagraph on the screen should be similar to the one pictured below.



REVIEW SESSION #1

A review of the fundamental concepts you learned in Lessons 1 to 4 is saved as a diagraph on the Program Disc. To begin the review session, you must first load "REVIEW1."

Touch twice to return to the Design Diagraph level. Remove the Symbol Library #1 disc from the left drive and replace it with the Program Disc. Touch and then LoadSave Diagraph .

The Drive/Filename Menu is displayed. Type an **A:** in the Drive field and **REVIEW1** in the Filename field. Touch DIAGRAPH.

Drive/Directory

A:

Filename

REVIEW1 .CSC (Chart) .CSG (Graphics)

To minimize the possibility of accidentally erasing a diagraph by loading another diagraph, a message will appear at the top of the screen:

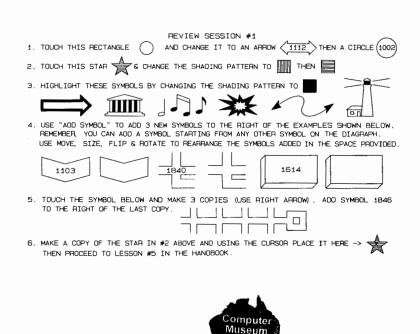
File 'A:REVIEW1.CSC' found, confirm Load (Touch YES or NO)

Touch to confirm the loading of the diagraph which is then read from the Program Disc. As the diagraph includes symbols that are stored on the Symbol Library #1 disc, another message will appear at the top of the screen:

Cannot find 'Symbol Library #1', CANCEL or insert disc and press RETRY

Since the diagraph has already been read into memory, remove the Program Disc from the left drive and replace it with the Symbol Library #1 disc. Touch and follow the instructions that appear on the screen.

When you complete the review session, the diagraph on the screen should appear as pictured below. Proceed to Lesson 5.



LESSON #5

TOPICS: The Connect Symbol, Specify Line, Move Node, SAVE SEGMENT, and Modify Line functions. How to connect symbols using the cursor to create a connector of several segments. How to modify the characteristics of a connector including the addition of tokens.

Now that you can add, delete, move, size and copy symbols, the next three lessons will explain how to "connect" symbols, "insert" tokens and "draw" lines.

- 1. To begin Lesson 5, touch running and over . Touch design . When the Initial Pattern Menu appears, create a uniform pattern of three symbols across by three down.
- 2. To connect the left symbol (blinking) on the top row to any other symbol, touch touch .

Change Symbol Sy

3. A dotted rectangle frames the symbol selected. To connect the framed symbol with another symbol, touch symbol .

4. A message appears at the top of the screen:

SELECT SYMBOL — Touch the other symbol to be connected and then touch Done

Touch the symbol below the framed symbol and then touch make a mistake, touch Cancel Task and begin again.

Cencel Took Specify Line SYMBOL HELP

5. Both of the symbols to be connected are now framed by dotted rectangles. A small square appears on the perimeter of the first symbol and marks the beginning of the connector. Touch to proceed to the next of the prepositioned nodes arranged around the perimeter of the symbol. Touch two more times until the node at the bottom of the symbol blinks. Touch to confirm that node as the starting point of the connector.

6. A blinking node appears on the perimeter of the second symbol. Touch once and a node on top of the symbol blinks. Touch to select that node as the ending point of the connector.

Cancel CREATE Move DELETE Specify NEXT Done HELP NODE NODE Line NOOE

- 7. A rubberband line appears connecting the first node to the second node. Touch to complete the connection and return to the Line Functions level.
- 8. To connect the framed symbol with another symbol, touch to confirm the selection.
- 9. You can change the default values that will be used to draw the connector. Touch

 Security

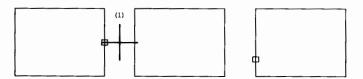
 The Line/Connector Menu appears at the top of the screen. Change the Linetype from 1 (solid) to 2 (dashed). Change the TOKEN # fields from 0 to 1 in the "Start" field and from 0 to 2 in the "End" field. Touch to complete the specification of the connector to be drawn between the two framed symbols.

LINE/CONNECTOR Pen P Linetype 2 Bold? N TOKEN # Start 1 Middle 0 End 2

- 10. Touch with twice until the prepositioned node on the right side of the symbol blinks and then touch work. When the node on the left side of the second symbol blinks, touch work to reposition the node. Use the down arrow V key to move the node about half the distance to the corner of the symbol. Touch to complete the Move Node procedure. Touch again to confirm the node as the destination node.
- 11. A rubberband connector is drawn through the middle symbol on the top row, ending with a graphics cursor that appears as a "+" on the destination node.

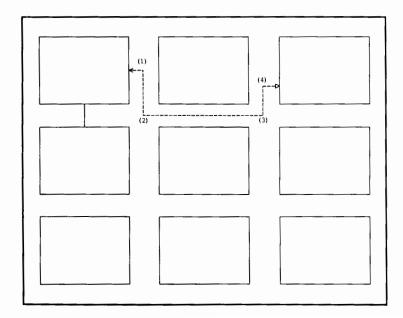


You can maneuver the graphics cursor using touch or the arrow keys. To form a "U" shaped connector of several segments, use the arrow keys to position the cursor at location (1). Touch segment to "freeze" the first segment, allowing you to change the direction of the connector.



12. Use the down arrow V key to move the cursor down to location (2) and touch save segment. Use the right arrow > key to move the cursor to location (3) and touch segment. Use the up arrow A key to move the cursor to location (4) so that the right tip of the cursor intersects the midpoint of the destination node. Touch segment automatically drawn from wherever the cursor is positioned to the destination node when you touch Done.

The diagraph on the screen should appear as pictured below.

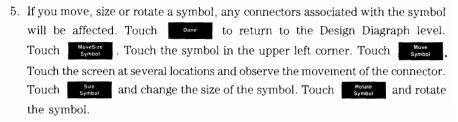


LESSON #6

TOPICS: The NEXT LINE, DELETE LINE, Modify Line, Move End of Line, Switch Symbol, and Insert Token functions. The effect of moving symbols that are connected to other symbols. How to insert tokens at specific points on a connector.

Begin Lesson 6 with the diagraph displayed on the screen from Lesson 5. You should be at the Line Functions level with the function keys displayed as shown below. If you restarted the lesson by loading ''LESSON6,'' you will be at the Design Diagraph level.

restarted the lesson by loading "LESSONG," you will be at the Design Diagraph.
When you restructure a diagraph, it is often necessary to delete complex connectors. The short vertical connector should be blinking. To delete the "U" shaped connector, touch to select the next connector associated with the framed symbol. The connector that blinks is the active connector and can be modified or deleted. When the first segment of the "U" shaped connector blinks, touch
Switch Draw Modify DELETE Connect NEXT Done HELP LINE Symbol LINE
To modify the characteristics of the remaining connector, touch Line/Connector Menu appears at the top of the screen. Change the TOKEN # from 0 to 1 in the ''End'' field. Touch of Line .
LINE/CONNECTOR Pen P Linetype 1 Bold? N TOKEN # Start 0 Middle 0 End 1
Cancel Token
To adjust the location of the node at the end of the connector that is blinking, use the left arrow < key to move the node to the left corner of the symbol and touch
The other end of the connector is associated with the symbol just below the framed symbol. To move that end of the connector, you must first switch the frame to the other symbol. Touch Touch the other symbol and then touch the other symbol and then touch the other symbol and then touch the node to the left corner of the symbol. Touch the other symbol and then touch the node to the left corner of the symbol. Touch the left arrow < key to move the node to the left corner of the symbol. Touch the symbol that the left arrow is associated with the symbol just below the framed symbol. Touch the symbol and then touch the other symbol and then touch the symbol is associated with the symbol just below the framed symbol. Touch the other symbol and then touch the symbol is associated with the symbol just below the frame to the other symbol and then touch the symbol is associated with the symbol just below the frame to the other symbol and then touch the symbol is associated with the symbol just below the frame to the other symbol and then touch the symbol is associated with the symbol is



- 6. If you delete a symbol, any connectors that are associated with the symbol will be deleted. To return to the Design Diagraph level, touch twice. Touch Symbol Touch Symbol Touch Symbol Touch Touch
- 7. Touch the remaining symbol on the top row and when it blinks, touch

 Touch Connect Symbol and touch the left symbol on the middle row. Touch to confirm the selection. Touch Connector Menu appears at the top of the screen. Change the TOKEN # from 0 to 2 for the "Start," "Middle" and "End" fields. Touch Connector Menu appears at to complete the specification.

LINE/CONNECTOR Pen P Linetype 1 Bold? N TOKEN # Start 2 Middle 2 End 2

- 8. When the node on the left side of the first symbol blinks, touch

 Touch once to select the node at the top of the second symbol and touch once in the center of the second node. Use the up arrow A key to move the cursor up until the rubberband line forms a horizontal line extending from the first symbol. Touch second node.

 Touch once to select the node at the top of the second symbol and touch once in the cursor positioned in the center of the second node. Use the up arrow A key to move the cursor up until the rubberband line forms a horizontal line extending from the first symbol. Touch of second node.

 Touch once to select the node at the top of the second symbol and touch once in the cursor positioned in the center of the second node. Use the up arrow A key to move the cursor up until the rubberband line forms a horizontal line extending from the first symbol. Touch once it is a second node.
- 9. The tokens specified in the Line/Connector Menu appear at the midpoints of the segments and the end points of the connector. While the start, middle and end points of a connector are the most common locations for tokens, there are often occasions when you will need to insert tokens at specific points on a connector. Touch Connect Touch T

Cancel

up arrow \land key to move the cursor up to form a horizontal line from the first symbol. Touch \bigcap_{Token} .



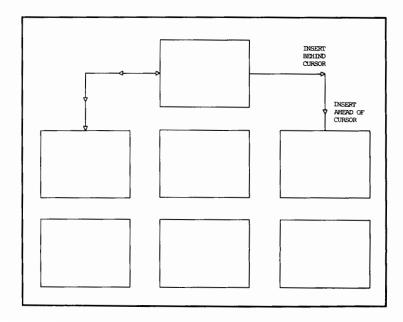
10. As you can insert any one of many different tokens, you must specify the token to be inserted. Touch Specify Token Token Menu appears at the top of the screen followed by the TOKEN TABLE. Change the Token # to be inserted from 0 to 2.

INSERT TOKEN — Enter the Token # to be inserted 2

Touch and note that the function key is updated from "=0" to "=2".

11. Tokens are inserted relative to the position of the cursor. Touch cursor to insert the token and draw the first segment. Move the cursor down until it approximates the location shown in the diagraph below and touch cursor is then moved to the other side of the token. Touch again to complete the connection.

The diagraph on the screen should appear as pictured below.



LESSON #7

TOPICS: The *Draw Line*, *Turn ON Draw*, and *Turn OFF Draw* functions. The similarities and differences between connectors drawn using *Connect Symbol* and lines drawn using the *Draw Line* function.

Begin Lesson 7 with the diagraph displayed on the screen from Lesson 6. You should be at the Line Functions level with the function keys displayed as shown below. If you restarted the lesson by loading "LESSON7," you will be at the Design Diagraph level.

1. The diagraph on the screen from Lesson 6 will help illustrate some of the differences between the Connect Symbol and Draw Line functions. To switch the dotted frame from the top symbol to the symbol directly below it, touch

Touch the symbol in the center of the screen and touch

Draw
Line

Switch

Draw

Modify

DELETE

Connect

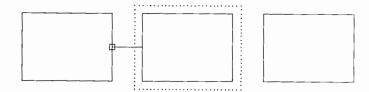
NEXT

Done

HELP

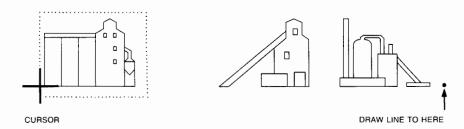
2. Just as you connected symbols using prepositioned nodes, you can draw lines from the prepositioned nodes on a symbol. This procedure is particularly convenient when the symbol has a curved or irregular outline. To confirm the the prepositioned node on the left side of the symbol, touch

The cursor appears at the center of the node. Use the left arrow < key to move the cursor to the left until it is positioned on the perimeter of the symbol, as if the symbols were connected. Touch



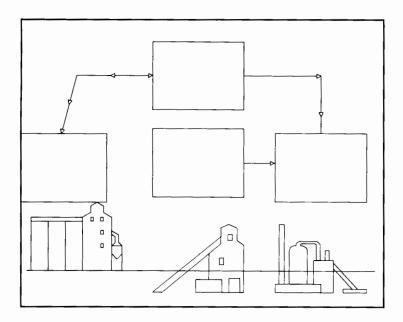
To modify the characteristics of the line that is blinking, touch Line/Connector Menu appears at the top of the screen. Change the TOKEN # from 0 to 2 in the "End" field. Touch

- 4. To illustrate the major difference between connectors and lines, touch return to the Design Diagraph level. Touch symbol Touch the left symbol on the middle row. Touch symbol and move the symbol to the left until it touches the border of the diagraph. Note that the last segment of the connector from the symbol on the top row moves with the symbol, unlike the horizontal line.
- 5. A distinctive feature of the Draw Line function is that if you move a symbol with which a "line" is associated, both the first and last segments of the line will move with the symbol as a unit. For this reason, we recommend you use Connect Symbol, rather than Draw Line, to connect symbols you expect to rearrange later. Touch to return to the MoveSize level. Touch the symbol in the center of the screen. Touch symbol and to flip the symbol. Touch to flip the symbol. Touch
- 6. Touch the left symbol on the bottom row and touch symbol. Change the three symbols on the bottom row to 2435, 2436 and 2412 starting at the left. Touch the grain elevators (left symbol) and then touch the grain elevators (left symbol) and then touch the symbol, touch the cursor appears in the center of the node. Touch the screen anywhere on the diagraph. To turn off the rubberband line, touch the screen anywhere on the diagraph. Move the cursor to the bottom left corner of the diagraph so that the vertical portion of the cursor is aligned with the left side of the dotted frame and the horizontal portion coincides with the bottom of the grain elevators, as shown below. To draw a line at the base of the three symbols, touch to draw the line.



7. Touch to return to the Design Diagraph level. Touch symbol to move the *grain elevators*. Use the up arrow ∧ key to move the blinking frame up until the top of the frame coincides with the bottom of the symbol immediately above it. Touch

The diagraph on the screen should appear as pictured below.



REVIEW SESSION #2

A review of the fundamental concepts you learned in Lessons 5 to 7 is saved as a diagraph on the Program Disc. To begin the review session, you must first load "REVIEW2."

Touch Done to return to the Design Diagraph level. Remove the Symbol Library #1 disc from the left drive and replace it with the Program Disc. Touch and then Dograph .

The Drive/Filename Menu is displayed. Type **A:** in the Drive field and **REVIEW2** in the Filename field. Touch ODGRAPH .

Drive/Directory

A:

Filename

REVIEW2 .CSC (Chart) .CSG (Graphics)

To minimize the possibility of accidentally erasing a diagraph by loading another diagraph, a message will appear at the top of the screen.

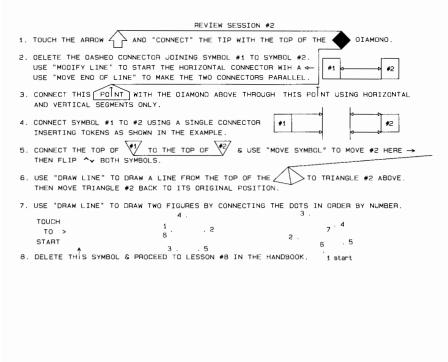
File 'A:REVIEW2.CSC' found, confirm Load (Touch YES or NO)

Touch ves to confirm the loading of the diagraph which is then read from the Program Disc. As the diagraph includes symbols that are stored on the Symbol Library #1 disc, another message will appear at the top of the screen advising you that the library required is not available.

Cannot find "Symbol Library #1", CANCEL or insert disc and press RETRY

Since the diagraph has already been read into memory, remove the Program Disc from the left drive and replace it with the Symbol Library #1 disc. Touch and follow the instructions that appear on the screen.

When you complete the review session, the diagraph on the screen should appear as pictured below. Proceed to Lesson 8.



LESSON #8

TOPICS: The *Text Menu* and the fields on the menu that control the characteristics of each line of text. How to imbed highlighted words and phrases in a line of text for emphasis.

Now that you can create compositions of lines and symbols, the next three lessons will explain how to add text to a diagraph using the Text Menu, text functions and a variety of text fonts.

- 1. To begin Lesson 8, touch Primary and Start Touch Design . When the Initial Pattern Menu appears, create a uniform pattern of two symbols across by two down.
- 2. To add a line of text to a symbol, touch the right symbol on the top row. When it blinks touch test to a symbol, touch the right symbol on the top row.

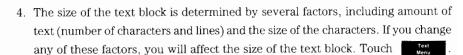


3. A dotted rectangle frames the symbol selected and a small text node appears in the center. Touch and type **LINE ONE** on the first line of the menu in caps.

TEXT P S J F B LINE ONE P 3 C 1 N

Touch and the text block appears, centered inside the symbol.

HELP



Change the Size field "S" from **3** to **9**. Touch .

5. The specifications for the first line of text are used for each succeeding line of text entered in the menu unless another value is entered on a subsequent line.

Thereafter, the new specification remains in effect until another change is encountered for that field. Touch

Text Many 1. Type LINE TWO on the second line.

Type **LINE THREE** on the third line. Change the entry in the Italics field "I" on the second line of the menu from **blank** to **Y**. Change the entry in the Italics field back to **N** on the third line. Change the entry in the Bold field "B" on the third line of the menu from **blank** to **Y**. Touch to plot the text on the screen.

TEXT P S J F B I
LINE ONE P 9 C 1 N N
LINE TWO
LINE THREE Y N

6. The type of data entered in the Text Menu may affect the selection of the entry in the Justify field. Numeric data, entered in columns, is usually right justified, whereas text is usually left justified or centered. To illustrate how to use the Justify field "J" on the text menu, touch symbol to the left and when it blinks, touch to switch the dotted frame. Touch and type LINE ONE on the first line of the menu, LINE TWO on the second line and LINE THREE on the third line. Change the Size field "S" from 3 to 9 on the first line. Change the Justify field "J" from C to L (flush Left) for the first line, from blank to R (flush Right) for the second line and from blank to C (Centered) for the third line. Touch

TEXT PSJFBI
LINE ONE P9L1NN
LINE TWO R
LINE THREE C

7. When arranging text and numbers in columns in the same text block, it is often necessary to suppress all justification and to type the data in the menu exactly as it is to appear in the text block, including all leading blanks. Touch

Touch the symbol directly below the blinking symbol and touch

Touch

C (Centered) to N (None). Type the data as shown below and touch

TEXT PSJFBI \$1,000.00 — U.S. FUNDS P 6 N 1 N N 27.40 1.53 147.35 8. You can combine two or more lines of text that have different characteristics (pen, font, italics, bold) into a single line of text, thereby highlighting keywords or phrases. To illustrate how you can "Imbed" text touch symbol to the right and then touch one of text touch one of

TEXT PSJFBI
USE THE FEATURE P6 N 1 N N
IMBED I Y
TO HIGHLIGHT WORDS C N

9. Two of the parameters that affect the size of the text block are the % Space between Characters and the % Space between Lines of text. Touch

Touch

the left symbol on the top row. Touch Touch Touch Change the % Space between Chars from 33 to 66. Change the % Space between Lines from 50 to 100. Touch to plot the text block. Note the increase in spacing between the characters and lines of text.

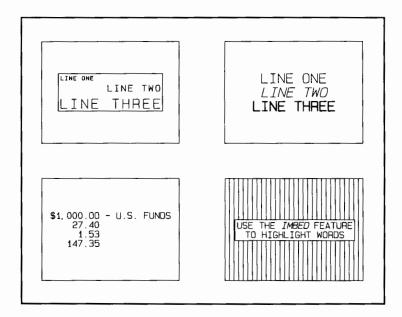
LINE ONE LINE TWO LINE THREE LINE ONE LINE TWO LINE THREE

% SPACE BETWEEN CHARS = 33 % SPACE BETWEEN LINES = 50 % SPACE BETWEEN CHARS = 66 % SPACE BETWEEN LINES = 100

- 10. The size of each line of text can be varied. Touch for the first line from 9 to 3. Change the Size field for the second line from blank to 6. Change the Size field of the third line from blank to 9. Touch from blank to 9. Tou
- 11. To plot a frame around the block of text, touch from **N** to **Y**. Touch replot the text within a frame.

12. You can also "window" text inside a shaded symbol. Touch to return to the Design Diagraph level. Touch the right symbol on the bottom row. When it blinks, touch change the Shading Pattern from **0** to **4** and touch the windowed text. Touch change the Shading pattern, you should probably frame the windowed text. Touch change the Frame field from **N** to **Y**. Touch cone to replot the text.

The diagraph on the screen should appear as pictured below.



LESSON #9

TOPICS: The *DELETE TEXT*, *NEXT TEXT*, *CREATE TEXTNODE*, and the *MoveSize Text* functions. The use of the arrow keys to change the height and width of the characters in a text block and how to restore the standard proportions. How to align two blocks of text.

Begin Lesson 9 with the diagraph displayed on the screen from Lesson 8. You should be at the Text Functions level with the function keys displayed as shown below. If you restarted the lesson by loading "LESSON9," you will be at the Design Diagraph level.

I.	To make room on the diagraph for new text blocks and to demonstrate other Text
	Functions, touch symbol on the top row and touch
	Done . Touch DELETE TEXT .
	Switch Symbol CREATE TEXTNOOE Text Done TEXT MoveSize Text TEXT Menu TEXT Done HELP

- 2. To move a block of text, you must first activate the symbol with which the text is associated. Touch Symbol . Touch the symbol to the left and then touch . Touch Touch Touch . The block of text will temporarily disappear, but the blinking frame indicates the size and position of the text. Touch the center of the symbol to the right. Touch
- 3. Even though the text appears inside the symbol on the right, it belongs to the symbol on the left. To illustrate the association, touch twice to return to the Design Diagraph level. Touch the symbol on the right and when it blinks, touch symbol. Because the symbol you deleted was not associated with the text, the text block remains unchanged.
- 4. Touch the remaining symbol on the top row and touch Symbol. Touch . All text that is associated with the symbol will move with the symbol as a unit. Touch the center of the screen and touch
- 5. As you might expect, if you delete a symbol, all text associated with the symbol will also be deleted. Touch to return to the Add/Delete level.

 Touch OBLETT SYMBOL.
- 6. All symbols have at least one prepositioned text node. Many symbols have several text nodes that make it easy to add text at several locations in and around the symbol. To illustrate the use of prepositioned text nodes, touch symbol and change the SYMBOL # from 1001 to 1170. Touch one twice to return to the Design Diagraph level. Touch symbol. Touch the first text node will blink. Touch the next text node. Touch the next text node. Touch the next text node. Touch the several locations in and around the symbol. Touch the screen on the top row above the left symbol. Touch the screen that the next text node will blink. Touch the next text node. Touch the next text node. Touch the next text node. Touch the next text node.
- 7. You can create text nodes and move them anywhere on the diagraph. Touch

 CREATE TEXTHODE . Touch Touch Touch Touch Touch the screen in the center of the area to the right of the symbol. Touch Tou

Text Functions level. Touch of the Text Menu. Touch on the first line of the Text Menu. Touch one .

8. The MoveSize Text functions are similar in operation to the MoveSize Symbol functions. Touch Text Touch . Touch .



Depending upon the function selected, the arrow keys can be used to:



- 9. Press the up arrow \land key 5 times to increase the height and the right arrow \gt key 5 times to increase the width of the text block. Touch the arrow keys allow you to stretch or compress the text block, thereby changing the proportion of the characters: tall and skinny vs. short and fat. The special effects are often useful and you can always restore the proportion of the characters using the PROPORTN TEXT function.
- 10. The PROPORTN TEXT and PROPORTN SYMBOL functions operate in a similar fashion. Touch size Press the up arrow ∧ key and increase the height of the text block so that it is noticeably distorted. Touch characters to their standard proportions while maintaining the width of the text block. Touch Touch three times to increase the size of the text block proportionally. Touch to plot the text on the screen.



11. To rotate the block of text to any angle, touch repeatedly or press the right arrow < key and rotate the text approximately 45 degrees. Touch limit are rotated on the screen at any angle other than 90 degrees if you specify Font 1 (Hardware Character Set). When plotted to a plotter, the text block will assume the angle indicated by the frame on the screen and the characters will be rotated at the appropriate

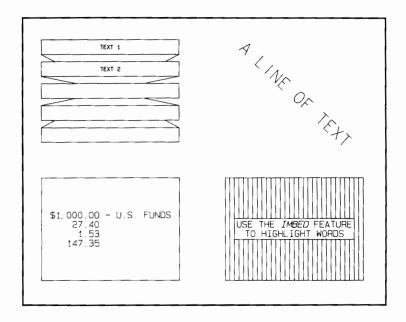
angle. If you select one of the software fonts (2-13), the characters will be rotated on the screen as well. Touch to return to the Text Functions level. Touch and change the Font field "F" from 1 to 4. Touch to replot the text.

12. To align one block of text with another, you must first establish the *reference text block* to which other text blocks will be aligned. Touch symbol . Touch the right symbol on the bottom row and then touch one of the block, touch of the block as the *reference text block*, touch of the set of the block is the set of the block of text block as the *reference text block*, touch of the block is the set of the block of text block of text block is the set of the block of text block of t

Set Ref	Size	Move	Rotate	Allan	NEXT	Done	HELP
Text	Text	Tezt	Tezt	Text	TEXT		
					1201		

13. To align the text in the left symbol on the bottom row, touch and then symbol. Touch the symbol to the left and touch one. Touch touch touch touch to the left and touch touch touch touch touch to the left and touch tou

The diagraph on the screen should be similar to that pictured below.



LESSON #10

TOPICS: Hardware and software text fonts. How proportional spacing improves the appearance of a line of text. How to use the script text font. The advantages of the hardware character set vs. the software fonts.

Begin Lesson 10 with the diagraph displayed on the screen from Lesson 9. You should be at the Text Function level with the function keys displayed as shown below. If you restarted the lesson by loading "LESSON10," you will be at the Design Diagraph level.

1.	To make room on the diagraph for examples of the different text fonts, touch
	$\frac{Switch}{Symbol}$. Touch the symbol on the top row and then touch . Touch
	twice until the rotated line of text blinks. Touch TEXT .
	Switch CREATE MoveSize DELETE Text NEXT Done HELP Symbol TEXTNODE Text TEXT Menu TEXT

- 2. To illustrate proportional spacing as it applies to the software fonts (2-13) touch and then work and then work and then symbol. Touch twice. Touch the symbol is a string of ten with a string of
- 3. Note that the letter "I" is assumed to be the s, me width as the letter "M". The effect is to create a lot of space between each of the I's in the string and very little space between each of the M's in the string on line 2. Touch Change the Proportional Spacing field from N to Y and touch Change the I's is eliminated and additional space is provided between the M's. Thus, Proportional Spacing allocates space between characters based upon the real width of each character, resulting in a more pleasing appearance.



- 4. Several of the software fonts have unique characteristics that require you to adjust the parameters on the Text Menu to achieve the most pleasing appearance. To use Simplex Script as an example, touch Simplex Script as an example, touch Simplex Script as an example, touch Some Script and then some Script in the symbol and under the other block of text. Touch Some Script in upper/lower case letters on the first line. Change the Size field from 3 to 9. Change the Font field from 1 to 9. Change Proportional Spacing from N to Y and touch
- 5. The line of script should be enlarged to about twice its present size so that you can clearly see the font plotted on the screen. Touch and then and then Text Functions level. Note that Proportional Spacing does not eliminate the space between the letters. To eliminate the space, touch between Chars from 33 to 0. Touch
- 6. Because the hardware character set is resident in the HP 150, it does not have to be loaded from the Symbol #2 or Pictorial #1 discs as do the software fonts. Moreover, because the hardware characters are simple in design, they are easier to read when the text is small and they plot up to ten times faster than the more complex software fonts.

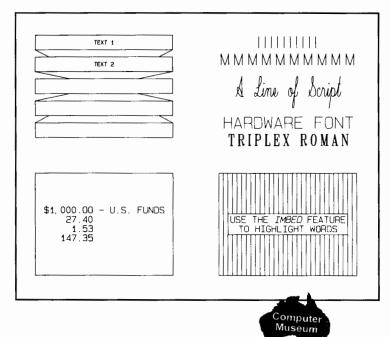
To compare the hardware character set to a software font, touch

Observe that line 1 of the text block is drawn almost immediately, while it takes up to ten times as long to draw the two because the software font must first be loaded. Therefore, during the development of a diagraph, add the text in the final stages, particularly when using the software fonts.

The comment on line 3 is stored as part of the text block but it does not appear on the diagraph. The ability to add comments in a text block allows you to document changes, dates and other information as part of the diagraph.

The diagraph on the screen should appear as pictured below.

The diagraph on the screen should appear as pictured below.



REVIEW SESSION #3

A review of the fundamental concepts you learned in Lessons 8 to 10 is saved as a diagraph on the Program Disc. To begin the review session, you must first load "REVIEW3."

Touch one to return to the Design Diagraph level. Remove the Symbol Library #1 disc from the left drive and replace it with the Program Disc. Touch of the LoadSave of Chapter of the LoadSave of

The Drive/Filename Menu is displayed. Type **A:** in the Drive field and **REVIEW3** in the Filename field. Touch DAGRAPH .

Drive/Directory

A:

Filename

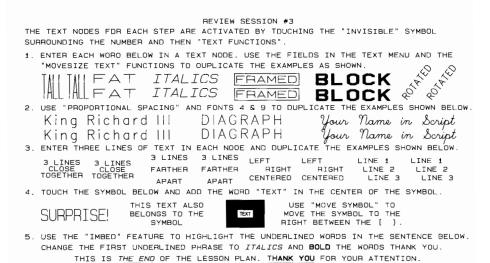
REVIEW3 .CSC (Chart) .CSG (Graphics)

To minimize the possibility of accidentally erasing a diagraph by loading another diagraph, a message will appear at the top of the screen:

File 'A:REVIEW3.CSC' found, confirm Load (Touch YES or NO)

Touch to confirm the loading of the diagraph which is then read from the Program Disc.

When you complete the review session, the diagraph on the screen should appear as pictured below.



Now that you have completed the Lesson Plan, you should investigate the Mini-Lessons and Application Exercises which follow.

MINI-LESSONS

The Mini-Lessons are stored on the Program Disc under the file names indicated below. These examples use symbols recorded on the Symbol Library #2 disc.

Insert the Program Disc in the left drive and the Symbol Library #2 disc in the right drive. Select a Mini-Lesson from the table below and use the LoadSave function to read the file from drive A.

Filename	Title and Subject
Mini-1	NESTED SYMBOLS — Use the Next key to reach "nested" symbols (symbols within symbols) which cannot always be activated by using touch or the arrow keys.
Mini-2	ERASE BY REDRAW— As it takes time to "erase" a symbol by redrawing it, you can turn off the Erase by Redraw option and take advantage of the hardware to clear the area occupied by the symbol.
Mini-3	SECRET OF THE INNER SYMBOL — Text inside a symbol is windowed when the symbol is shaded. You can create "empty windows" and insert other symbols inside the windows to achieve special effects.
Mini-4	GOING ROUND WITH DIAGRAPH — What happens when you rotate a symbol that has several blocks of text associated with it? If the text does not rotate, does it retain its position relative to the symbol?
Mini-5	STACKED SYMBOLS — Primitive symbols can be combined with other symbols to create complex objects. In this example, build a stack of coins using the Add Symbol function.
Mini-6	SHADY BUSINESS — Diagraph will often use a hardware function to quickly fill an area on the screen and at other times it will shade a symbol as if it were plotting the pattern line by line. This example will explain why.
Mini-7	CLIPPED ART — When you plot a diagraph, any portion of it that is outside the page border will be clipped. This feature can be used to create special effects and illusions.
Mini-8	BOXES AND BORDERS — The technique used to shade boxes and borders greatly reduces the amount of time it takes to plot a solid border, but you should understand the constraints this technique imposes on the use of boxes and borders.
Mini-9	CUSTOM PAGE BORDERS — If you need a border for an area that is a different proportion than $8\frac{1}{2} \times 11$ inches, you can build your own page borders, as shown in this example.

Mini-10	TEMPLATES - This example is actually a master template from which
	you can build other templates to store symbols on-screen for easy access.
	The symbols can then be copied from the template to the diagraph at
	locations specified by the graphics cursor.

- Mini-11 *PULLING NODES OUT OF A HAT* Many symbols have only a single text node in the center of the symbol. This example shows how you can add text blocks to a diagraph, using a single symbol as the source.
- Mini-12 THE "HBED" TEXT OPTION Use the Imbed option to combine two or more lines of text with different characteristics into a single line of text.
- Mini-13 FRAMED If all you need is a simple border around a block of text, you should use the Frame option on the Text Menu. You can alter the size of the frame relative to the text block and create windows of varying sizes within shaded symbols.
- Mini-14 THE DIAGRAPH CONNECTION When you rotate and move symbols that are connected to other symbols, you will appreciate the ability of Diagraph to recalculate and redraw the connections automatically.
- Mini-15 TWIN SIZED TEXT BLOCKS To create a twin block of text with characters of the same size and proportions, you should experiment with the Recall Size Text function.

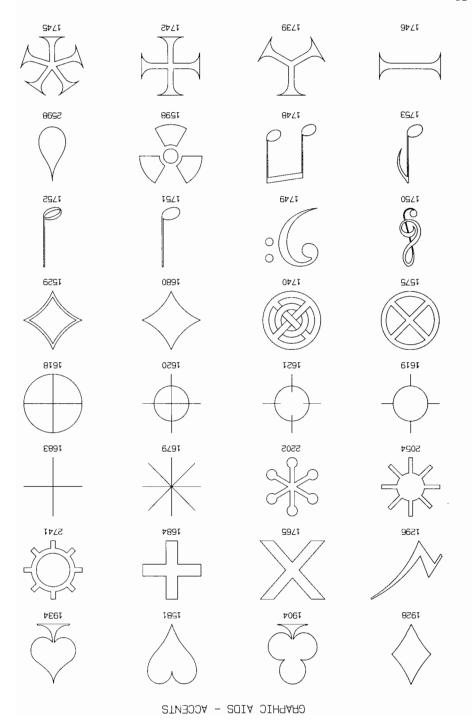
APPLICATION EXERCISES

The Application Exercises are stored on the Program Disc under the filenames indicated below. These examples use symbols recorded on the Symbol Library #2 disc.

Insert the Program Disc in the left drive and the Symbol Library #2 disc in the right drive. Select an Application Exercise from the table below and use the LoadSave function to read the file from drive A.

Filename	Application	
AE-1	Organizational Chart	
AE-2	Form	
AE-3	Word Chart	
AE-4	Bar Chart	
AE-5	Office Layout	

Instructions and comments are included in text blocks that you access by touching the numbered squares and then Text Functions followed by Text Menu.



DIVERAPH SYMBOL LIBRARIES

Over 1500 symbols are included with your purchase of Diagraph for the HP 150. Several thousand additional symbols will soon be available if you wish to expand your collection. The next two pages illustrate a few of the new symbols.

All of the symbols in the Index of Symbols are recorded on the three Diagraph discs labeled Symbol Library #1, Symbol Library #2 and Pictorial Library #1. Many of the entries are cross-referenced so you can find the symbol number by looking under any one of several different descriptions. The letter ''P'' following the symbol number indicates that the symbol is a Pictorial.

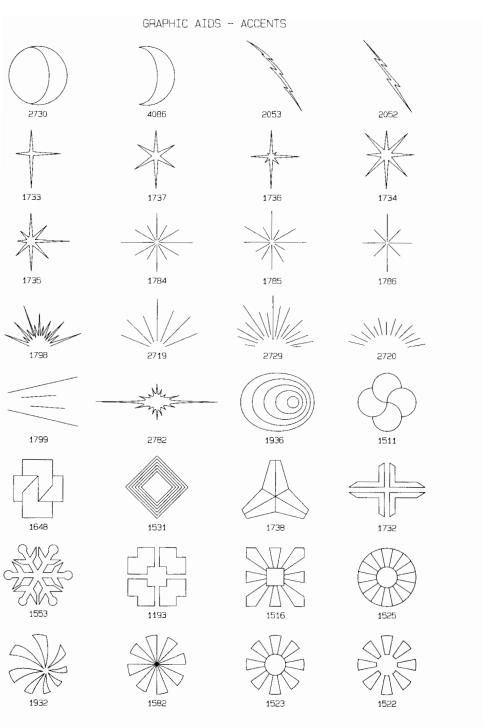
If you can't find a particular symbol or a library that is essential to your application, let us know. We will do our best to include your suggestions in a future edition of the symbol libraries.

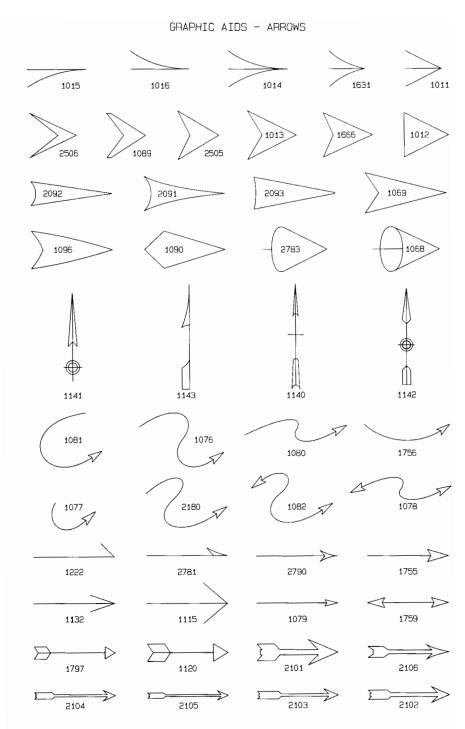
Computer Support will also digitize custom libraries of symbols and company logos to your specifications. For an estimate of the one-time charge, send us a copy of your

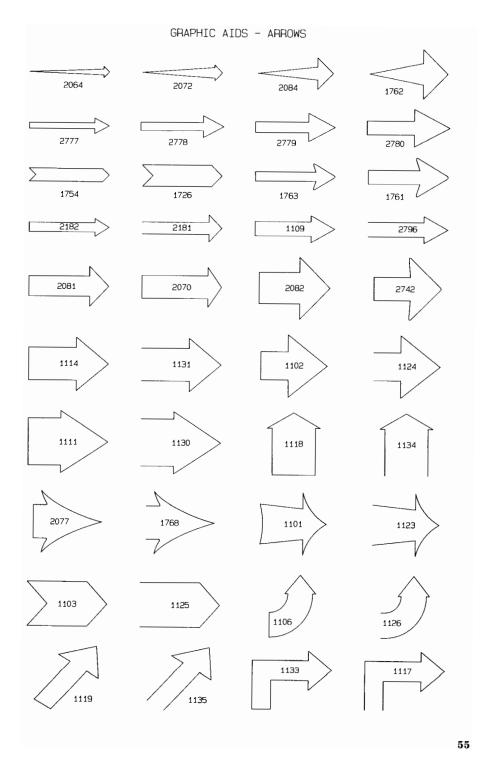
To receive updated copies of these pages, announcements of new symbol libraries and enhancements, mail your Disgraph Registration card today.

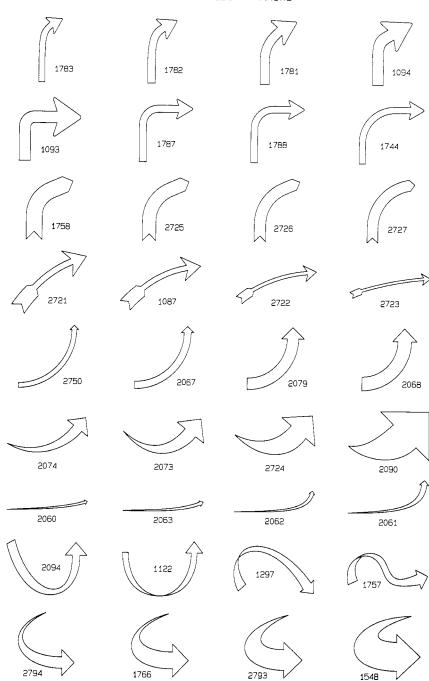
COMPUTER SUPPORT CORPORATION 2215 Midway Road

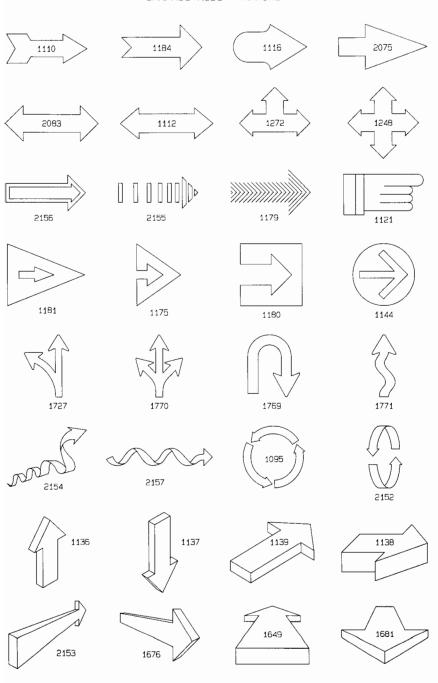
18:2



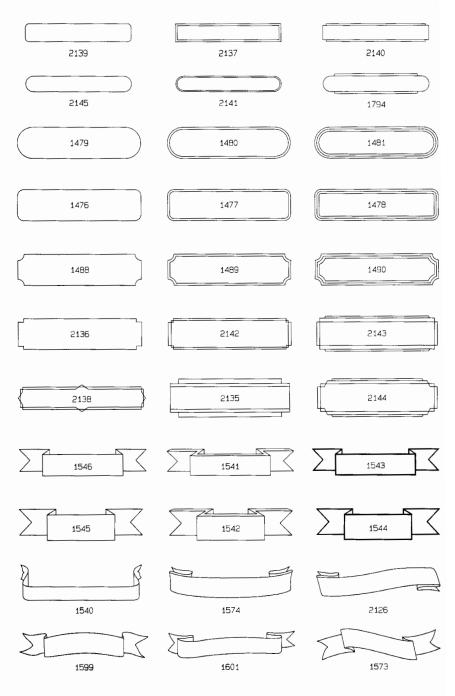


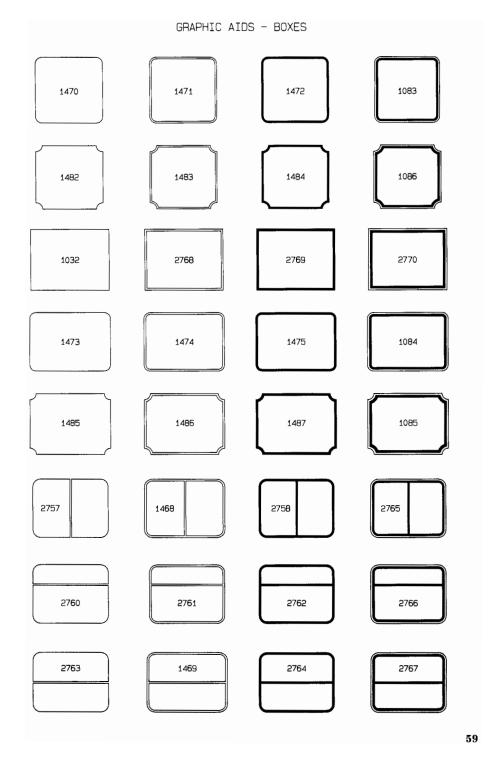


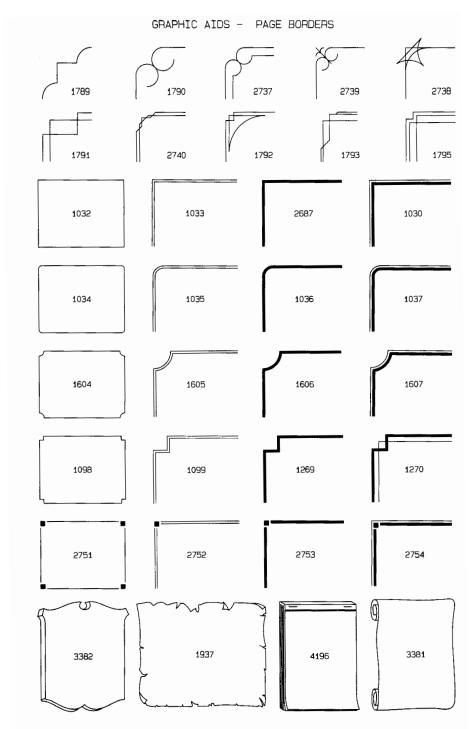


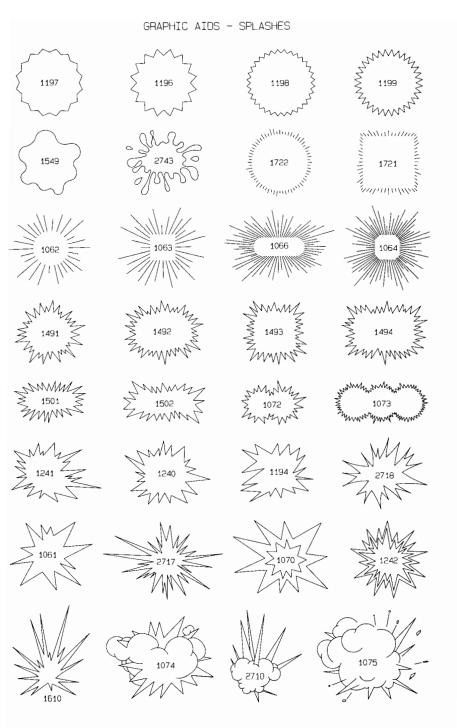


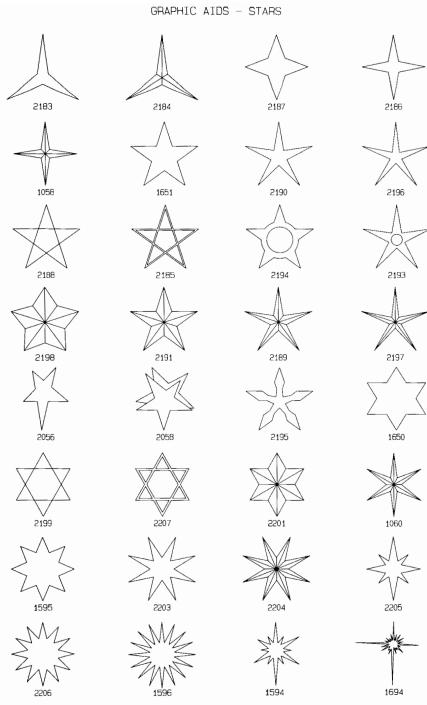
GRAPHIC AIDS - BANNERS

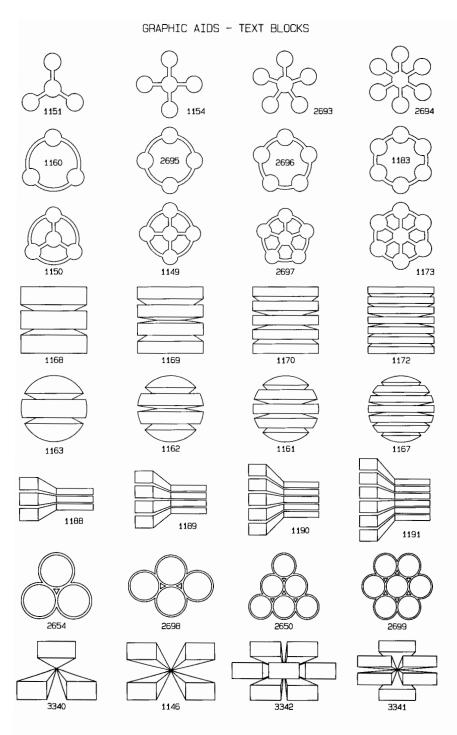




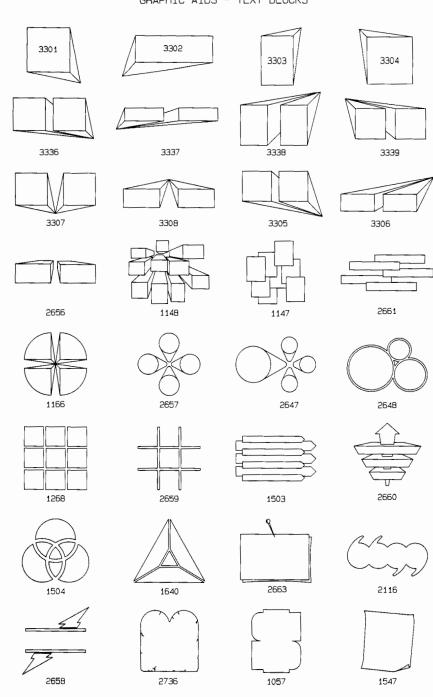


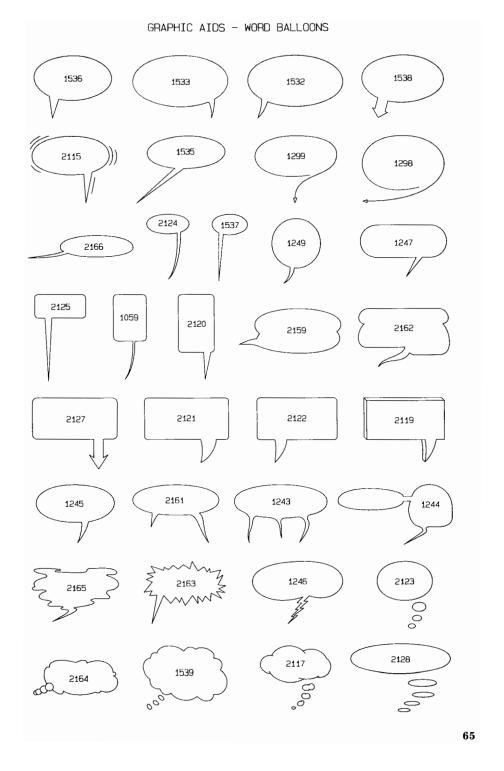


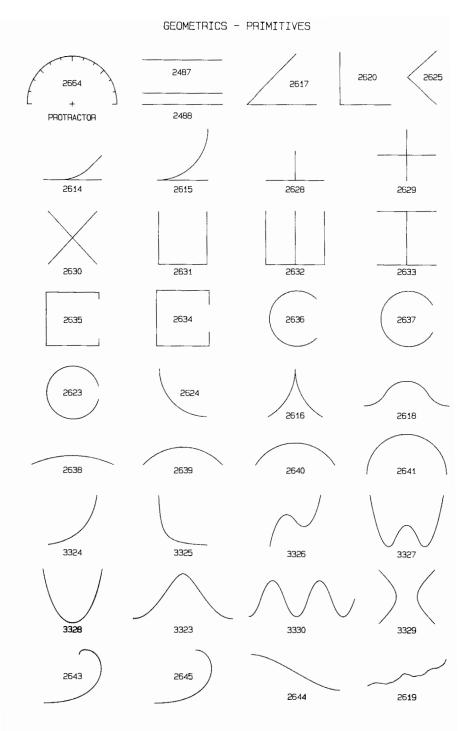


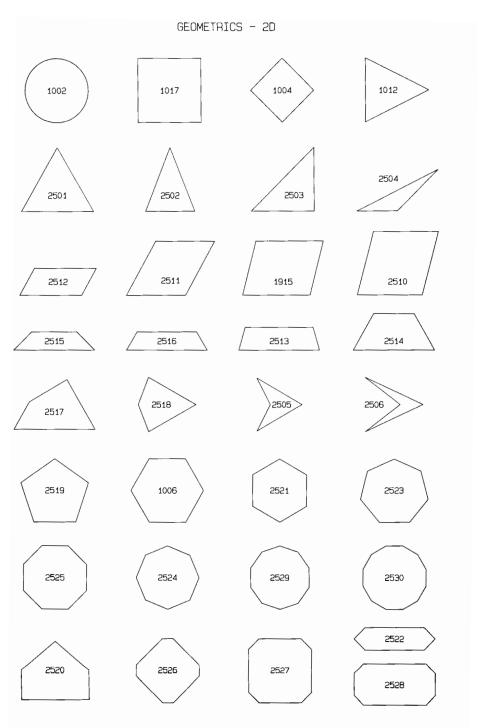


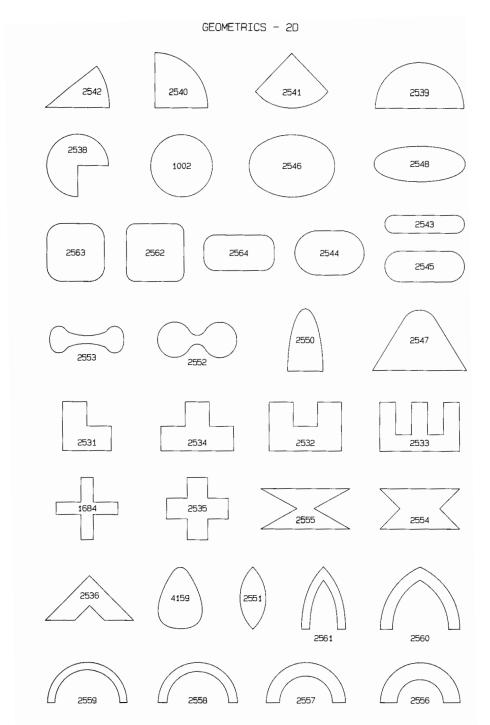
GRAPHIC AIDS - TEXT BLOCKS

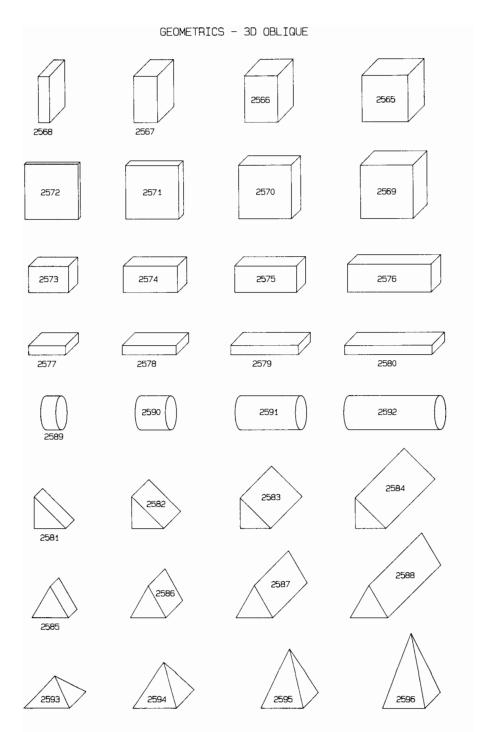


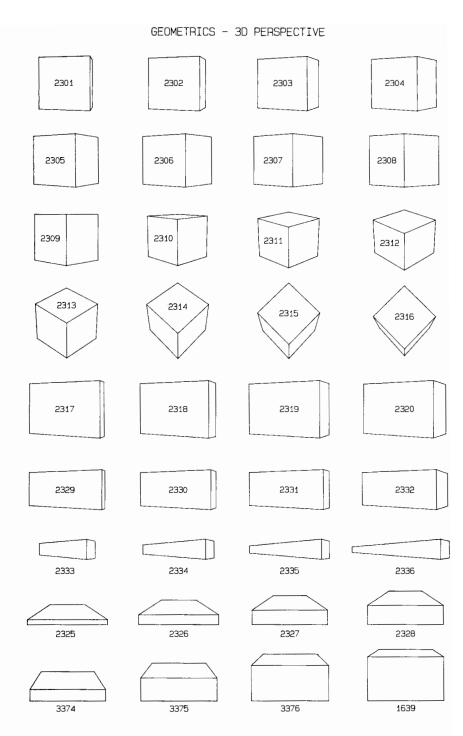


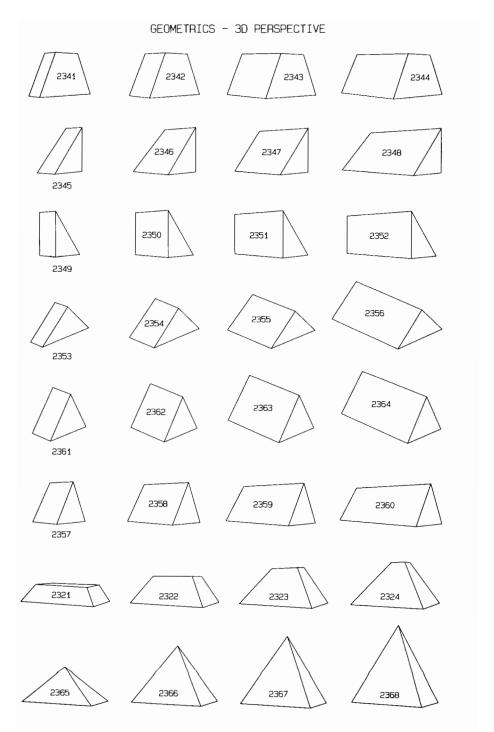


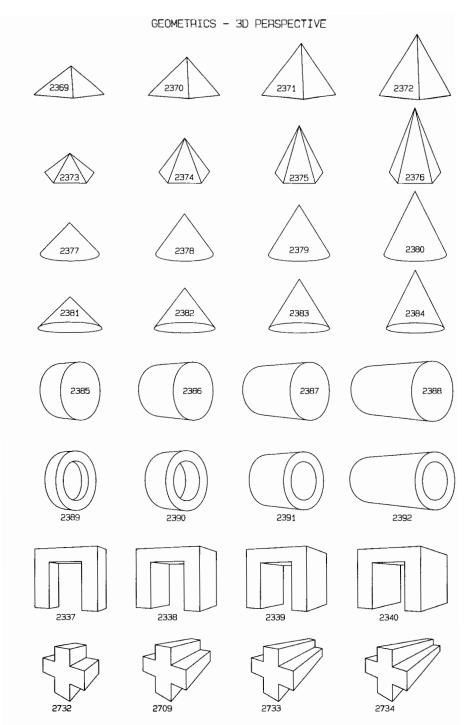




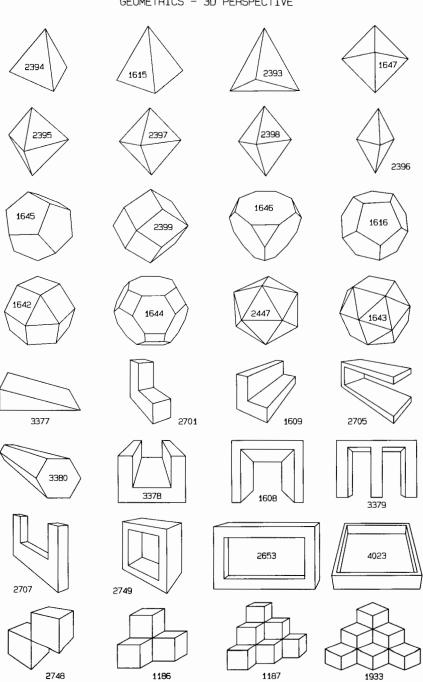


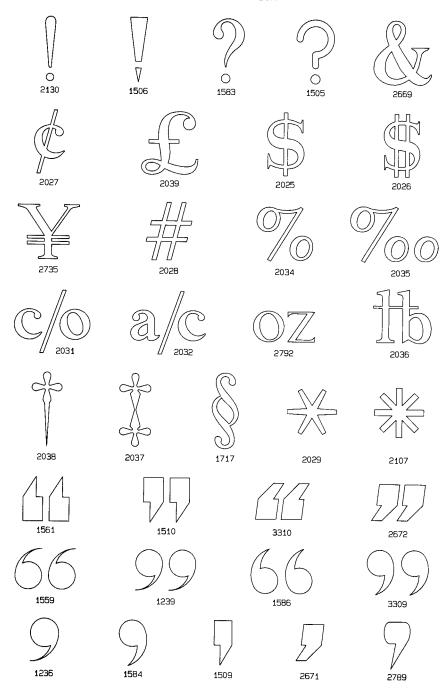


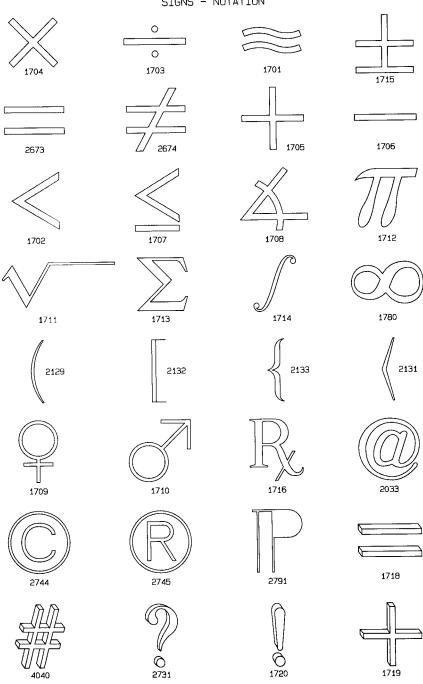


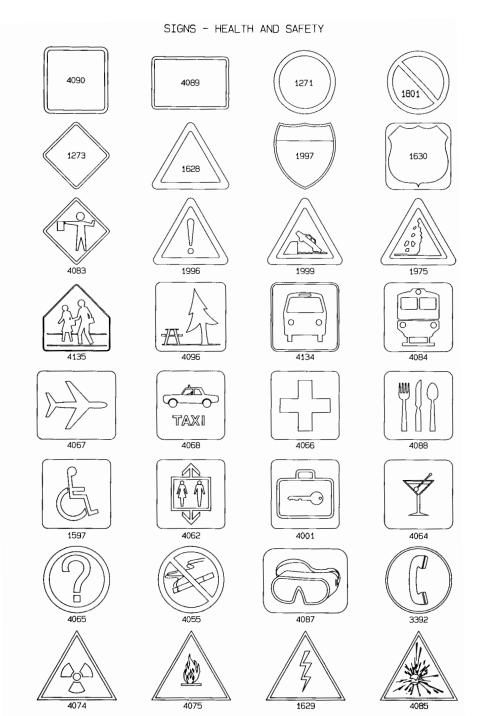


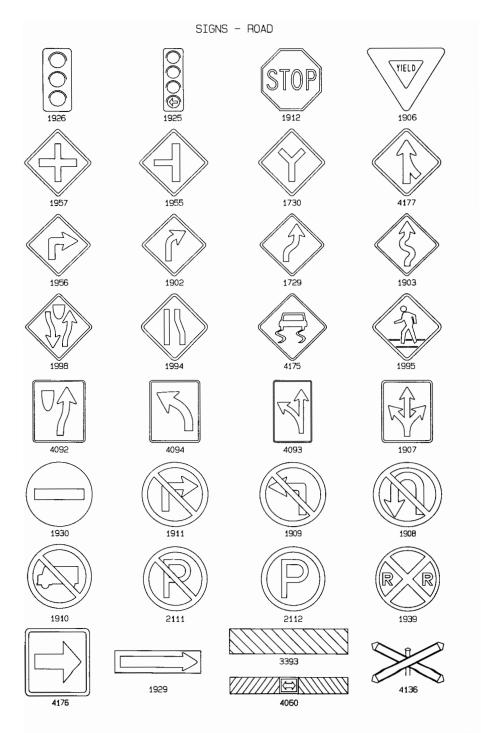
GEOMETRICS - 3D PERSPECTIVE

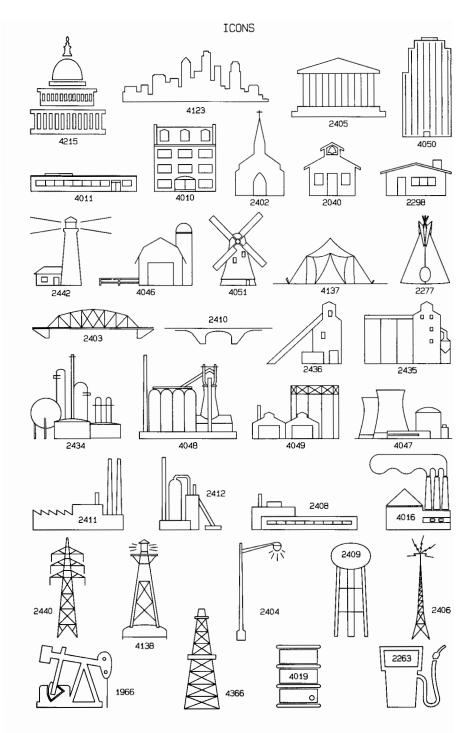


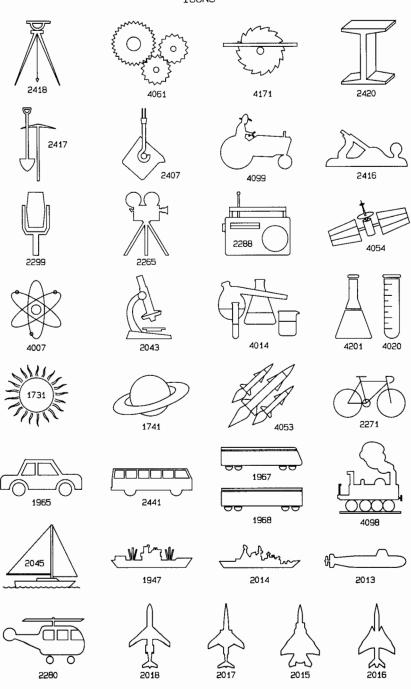




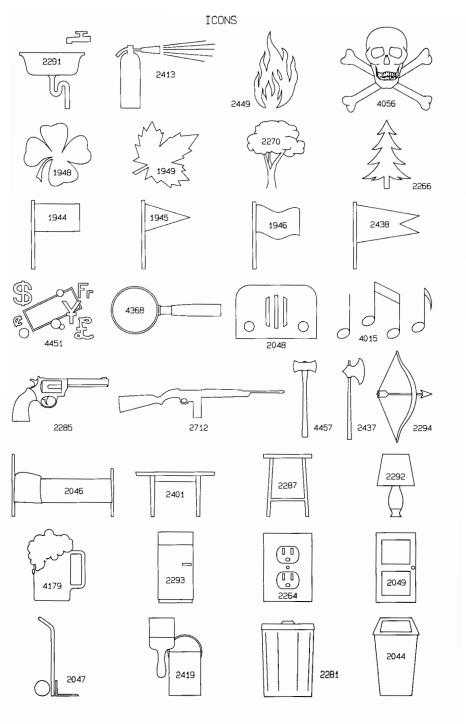


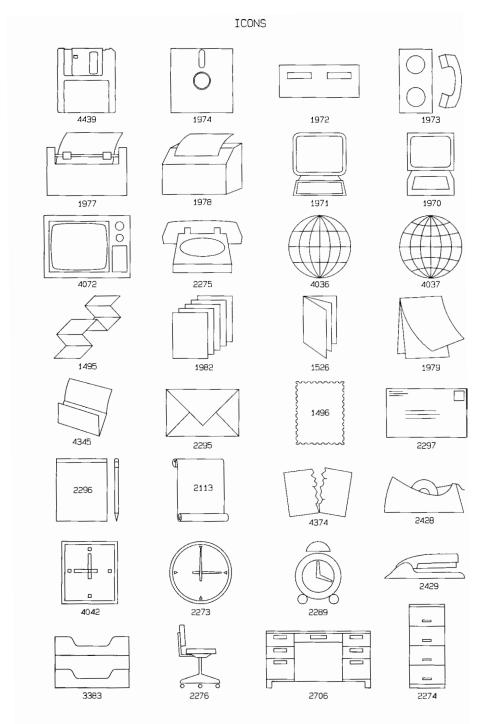


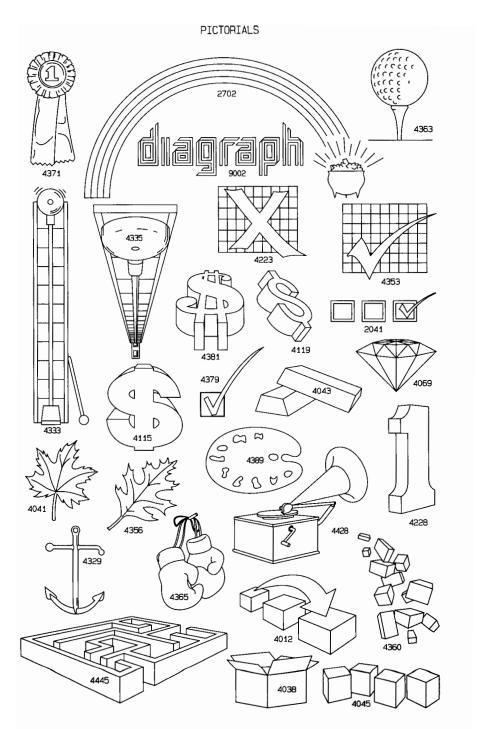


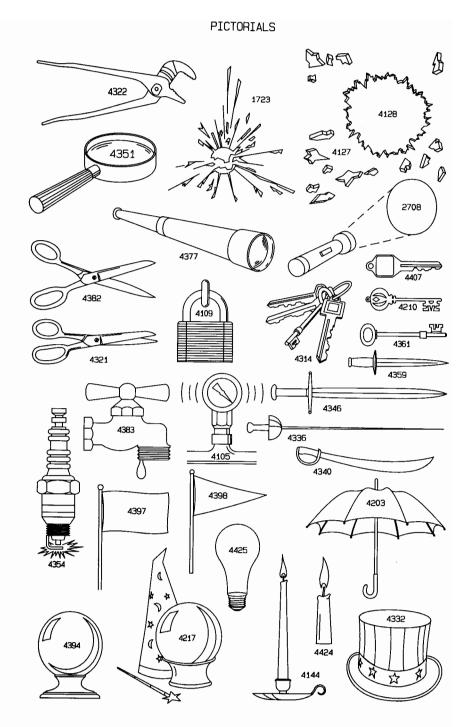


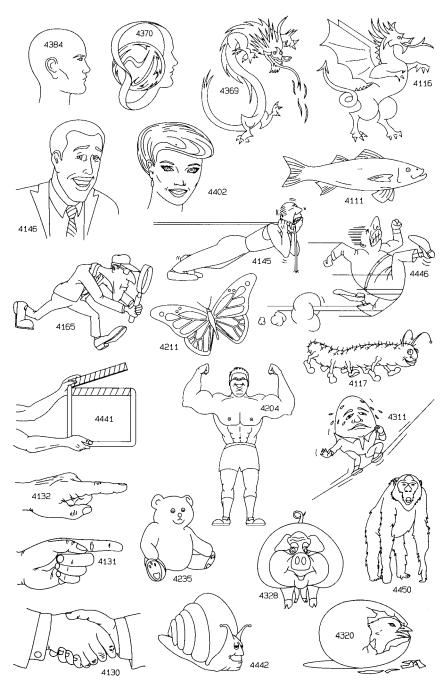


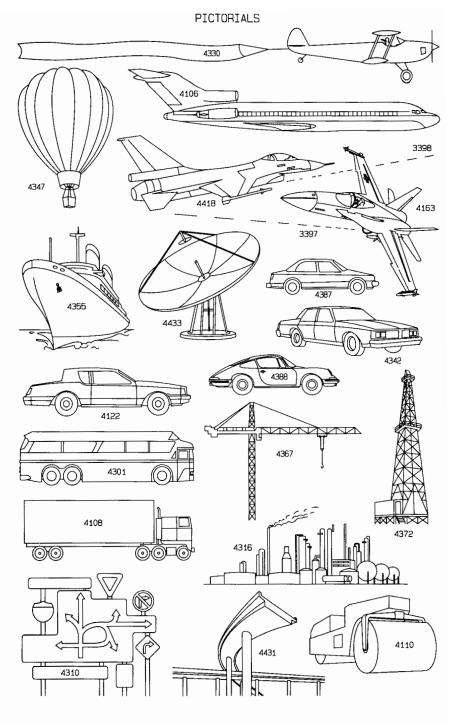


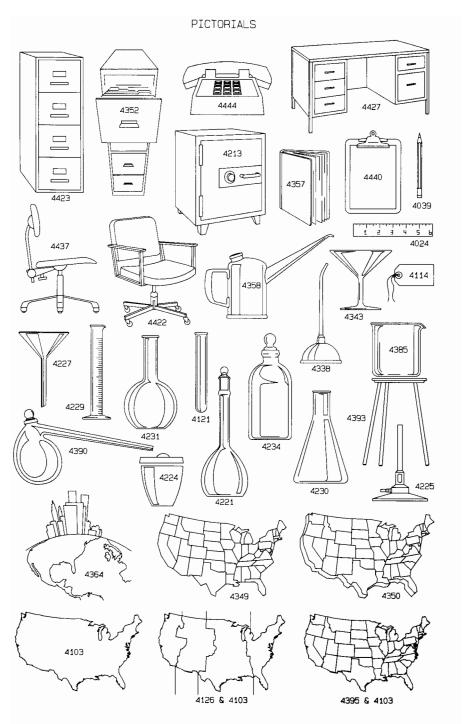


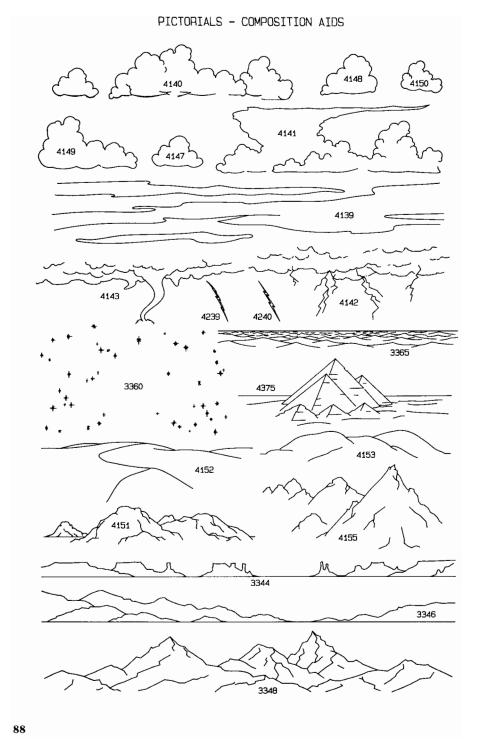


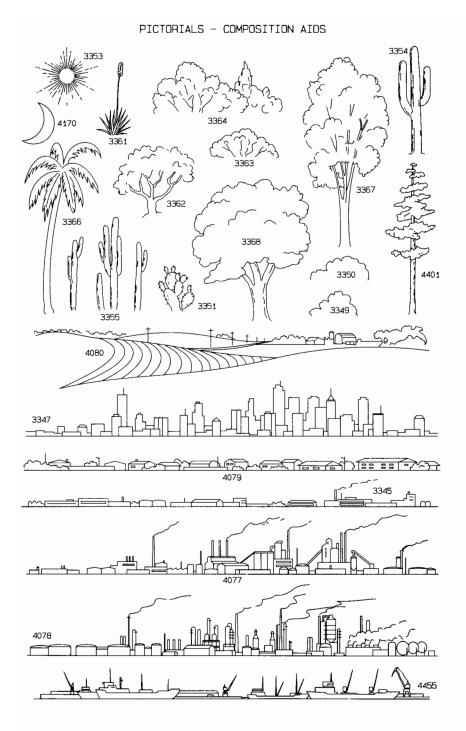


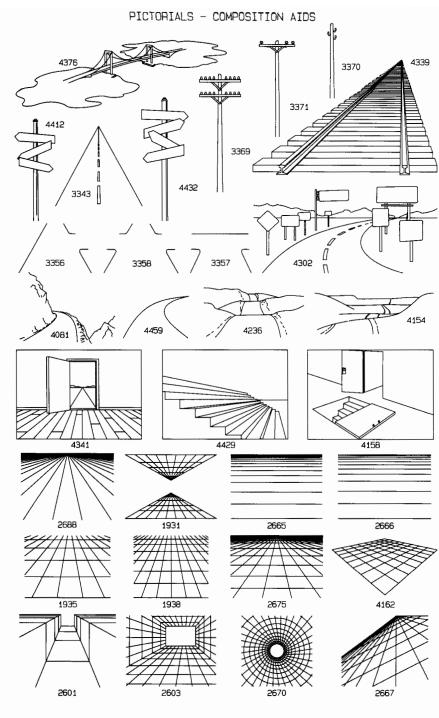


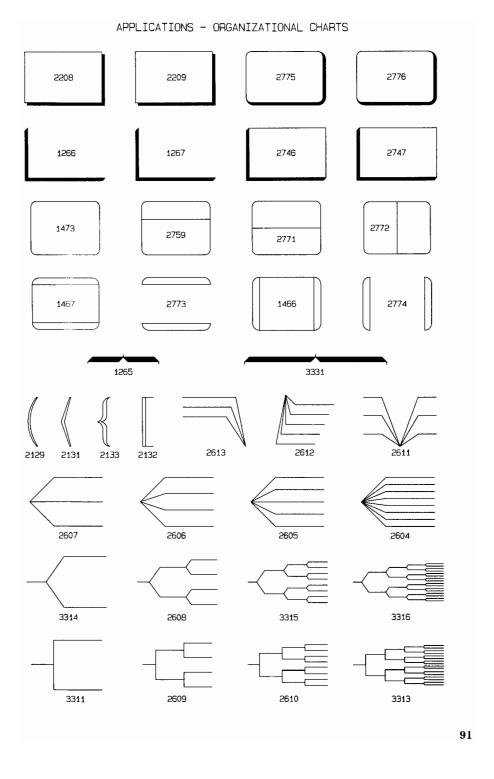


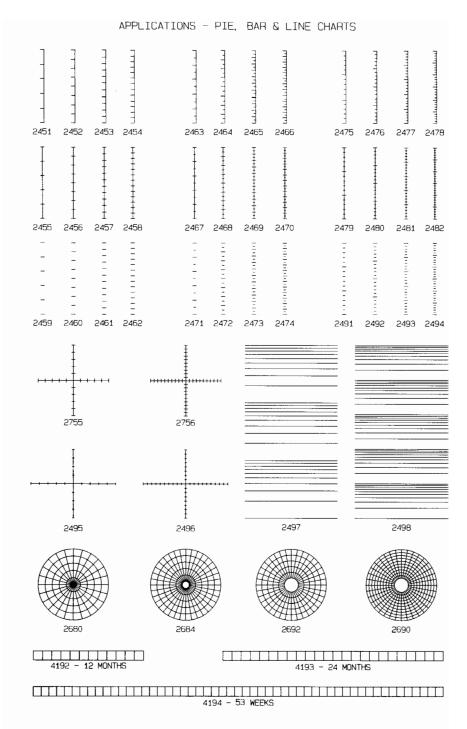


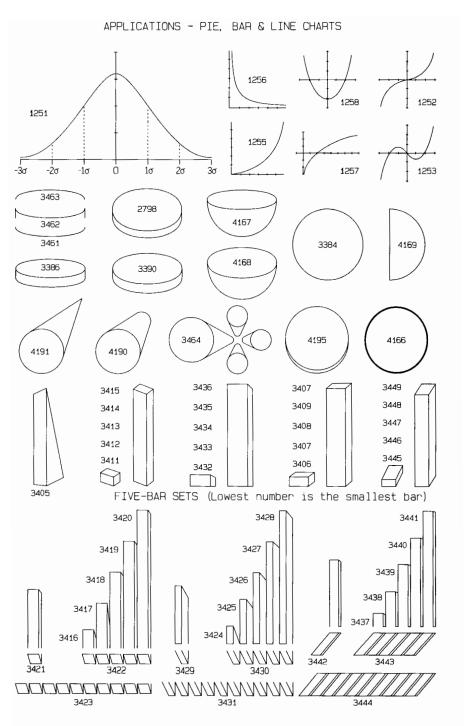


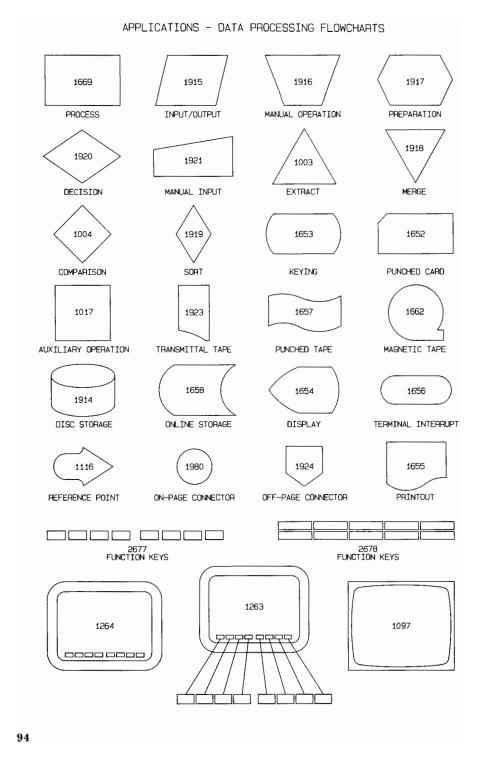


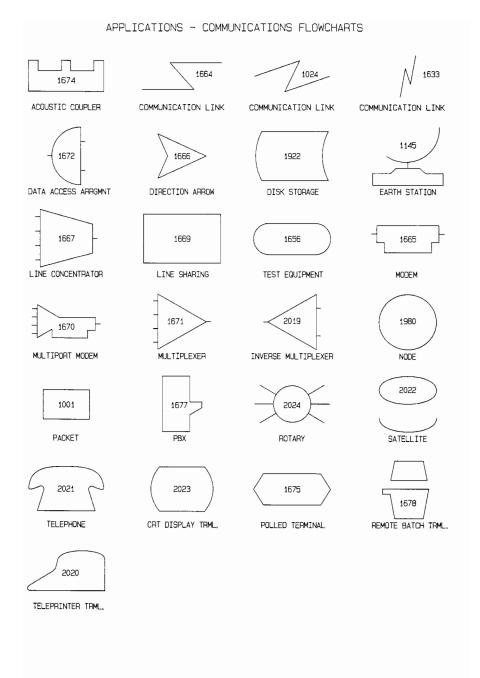


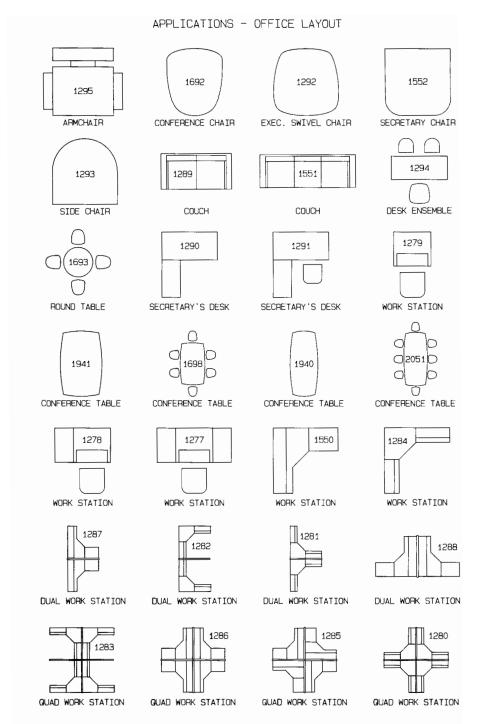


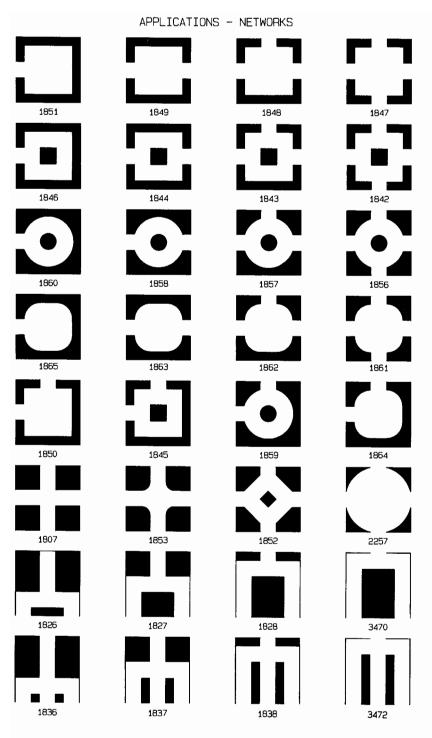


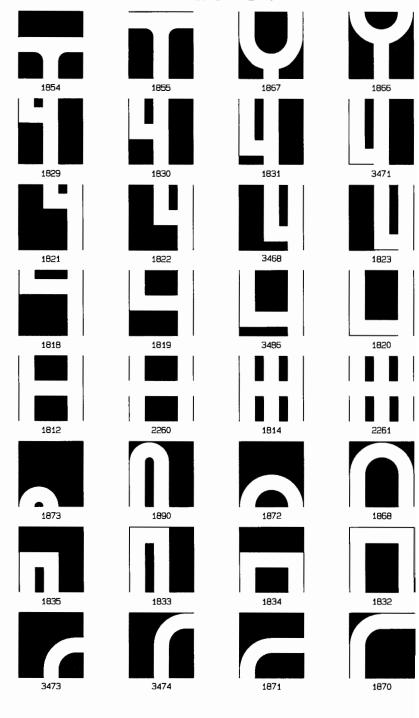


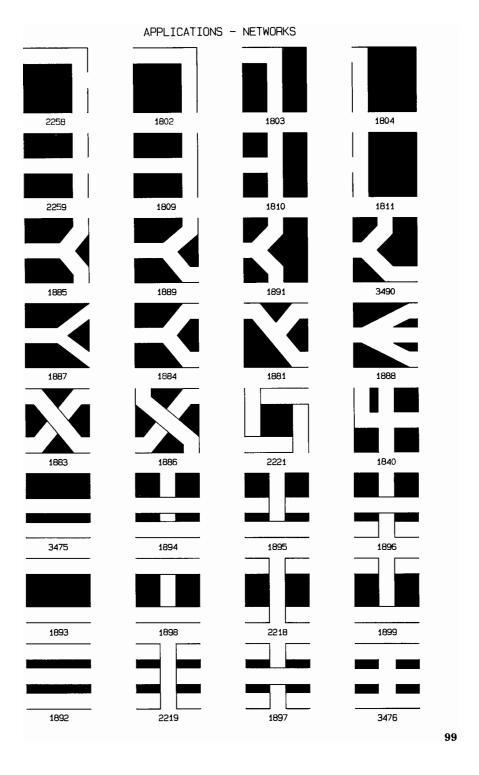


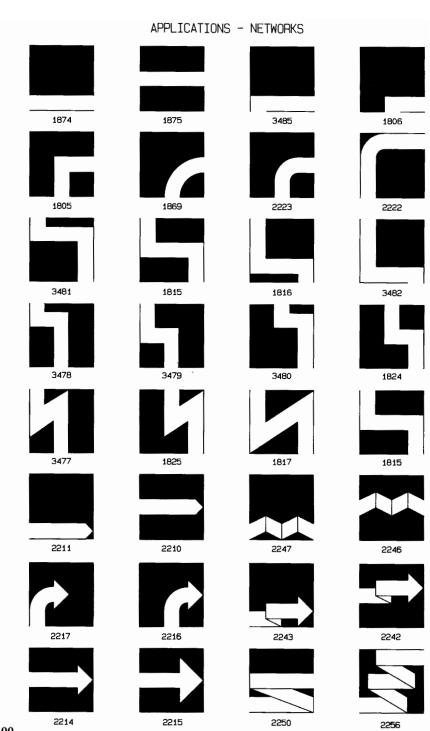






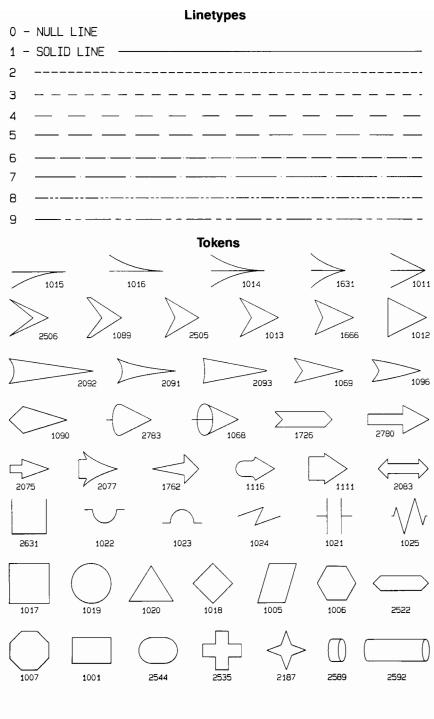






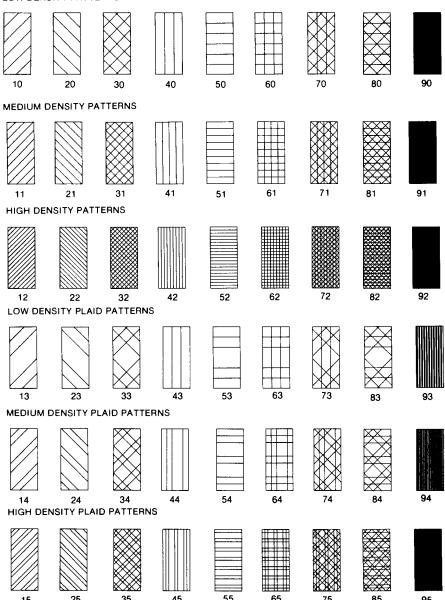
APPENDIX





Shading Patterns

LOW DENSITY PATTERNS



This is the Hardware Character set :; "', . 1234567890 ?! $\$/\#\%\&<>*[]-+=()@^^`_{\{}\}$

FONT 2 - OUTLINE BLOCK

This is an example of Outline Block
:: "''... 1234567890
?!\$/#%%% \@[]-+=

FONT 3 - SOLID BLOCK

This is an example of Solid Block :: "'... 1234567890 ?!\$/#%&()*[]-+=

FONT 4 - SIMPLEX ROMAN

This is an example of Simplex Roman :; "', . 1234567890 ?! $\$/\#\%\&\langle\rangle*[]-+=()$

FONT 5 - DUPLEX ROMAN

This is an example of Duplex Roman :;''', . 1234567890 ?!\$/#%&{}*[]-+=()

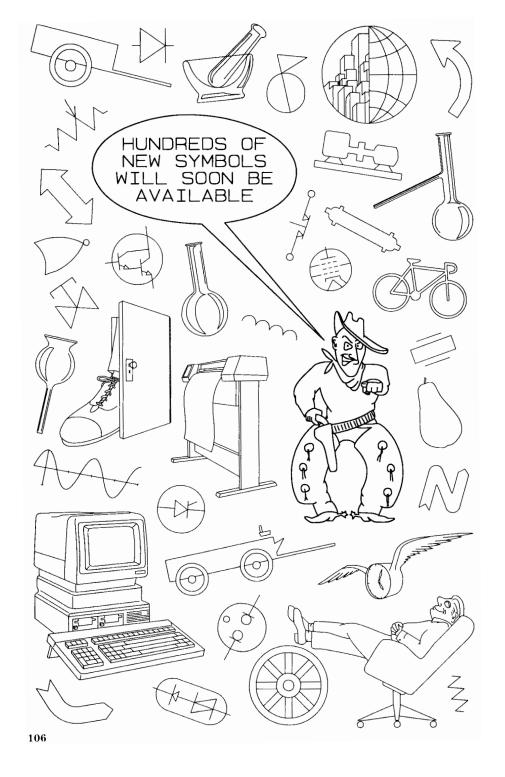
FONT 6 - COMPLEX ROMAN

This is an example of Complex Roman :; "', . 1234567890 ?! $\$/\#\%\&\langle \rangle *[]-+=()@\{ \}$

```
FONT 7 - TRIPLEX ROMAN
This is an example of Triplex Roman
        :; "'', . 1234567890
?!$/#%&\\\}*[]-+=()@{}
                FONT 8 - SIMPLEX GREEK
 ΑΒ ΔΕΗΓΦΙ ΚΛΜΝΟΠΞΡΣΤΥΘΩΧΨΖ
 αβ δεηγφι κλμνοπξρστυθωχψζ
                FONT 9 - SIMPLEX SCRIPT
This is an example of Simplex Script:
| ; " ' , . 1234567890
| ?!$/#%&()*[]-+=()
                FONT 10 - COMPLEX SCRIPT
This is an example of Complex Script

:; "', 1234567890

?!$/#%&()*[]-+=()
                FONT 11 - GOTHIC ENGLISH
This is an example of Gothic English
        :;"',..1234567890
?!$/&*-+=()
               FONT 12 - COMPLEX ITALIC
This is an example of Complex Italic
           :; "', . 1 2 3 4 5 6 7 8 9 0
?! $ / # % & ( ) * [ ] - + = ( )
                FONT 13 - TRIPLEX ITALIC
This is an example of Triplex Italic
          :; "', . 1234567890
?!$/#%&()*[]-+=()
```



Account Current (a/c)	ALP	HAB	ETIC	SYMBOL INDEX		
Fighter, 34 View		Number	Page	Description		_
Fighter, 34 View	ACCENTS (Graphic Aids)		52	Bracket ([])		75
Fighter, 34 View	Account Current (a/c)	2032		Bracket/Parenthesis (())		75
Fighter, 34 View	Acoustic Coupler	1674	95	Bridge, Simple		78
Fighter, 34 View	AIRPLANES			Bridge, Trestle		
Fighter, 34 View	Biplane w/banner			Bridge w/Islands		90
Fighter, 34 View	Bomber	2015		Broadaxe	2437	
Fighter, 34 View	Commercial Jet	4106 P		Broken Class (Hole)		
Fighter, 34 View	Commercial Jet	2018		Broken Glass (Pieces)		84
Fighter, 34 View	Fighter Cide View			BIIII DING	4127	04
Ampersiand (8) 2669 74 Courthouse Ampersiand (8) 2669 76 Courthouse Ampersiand (8) 2669 77 Courthouse Ampers	Fighter, 3/4 View				4046	78
Ampersiand (8) 2669 74 Courthouse Ampersiand (8) 2669 76 Courthouse Ampersiand (8) 2669 77 Courthouse Ampers	Trainer	2016	79	Capitol	4215	78
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	Airport Sign	4067		Church	2402	78
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	Ampersand (&)	2669		Courthouse		78
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	Anchor	4329 P		Factory, Heavy Industry		78
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	Angles			Factory, Light Industry		78
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	Angle, Right	2620	66	Factory w/Smoke		78
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	Angle (Notation)	1708		Grain Elevator	2435	78
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	Ape (Baboon)	4450 P		House		
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	Approximately Equals (Notation)	1701		Mine Head		78
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	Arcs (00 decrees)	0004		Nuclear Power Plant		78
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	Arches	2024		Office One Story		78
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	Armchair (Layout)	1205		Bowhouse		78
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	Arrowheads	1293		Schoolhouse		78
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	ARROWS		54	Skyscraper	4050	78
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	Arrows. 3D		57	Windmill	4051	78
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	Arrows, Multidirectional		57	BUILDINGS		
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	Asterisk (*)	2029	74	City Skyline	4123	78
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	Asterisk (8 points)	2107		City Skyline (Horizon)	3347 P	89
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	At (@)	2033		Light Industry (Horizon)	3345P	89
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	Atomic Power	4007	79	Hefinery	2434 4079 B	78
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	Atomic Power Plant	4047	78	Suburbia (Horizon)	4076F	89
4-Door 4342P 86 Buoy w/Light 4138 7 Compact 4387P 86 Bus 4301P 8 Simple 1965 79 Bus 2441 7 Sports Car 4388P 86 Buterfly 4211P 8 Auxiliary Operation (Flowchart) 1017 94 Buzz Saw 4171 7 Axe 4457 81 Cacti 3355P 8 AXES 325 Cactus 3354P 86 Baboon 4450P 85 Cactus 3351P 8 Baboon 4450P 85 Cactus, Prickly 3351P 8 Balance Scale, Equal 4005 80 Caduceus 4052 8 Balance Scale, Lequal 4006 80 Camera, Movie 2265 7 Balloon, Hot Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 65 Candle wilholder 4144P 8 BALLOONS, WORD 65 Capitol Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrel 4019 78 Cargo Ship 1947 7 Barrier (Road Signs) 4060 77 Cartesian Coordinate Axes 98 Bars, Jail 4002 80 Carton (Open) 4038P 81 Bars, Gold 4043P 83 Care Of (c/o) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear, Teddy 4235P 87 Cent Sign (c) 2027 7 Bear Teddy 4339P 83 Secretary's 2276 88 Bell Curve WiAxes 1251 93 Side Chair (Layout) 1292 89 Bell, Ring-The- (Top View) 4335P 83 Secretary's 2276 88 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 4359 P 87 Cent Sign (c) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1292 89 Book 4357 P8 7 Charles Swivel (Layout) 1293 90 Biorder (Stamp) 1496 82 Charnel-Lock Pliers 4333P 83 Border (Curled Edge) 1547 64 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 435P 87 CHARTS PIC, Bay Arrow 294 81 Chekmark in Square 4379P 80 BONBERS 4339P 83 Chekmark in Square 4339P 80 Border (Stamp) 1496 82 Chekmark in Square 4379P 80 BONBERS 4360 Chekmark in Square 4379P 80 BONBERS 4400 2294 81 Chekmark in Square 43014 70 BORDERS ARROW 2294 81 Chekmark in Square 4014	AUTOMOBILES	4100 B	96	Runsen Burner	4225 P	87
AXES	4 Door			Buov w/Light	4138	78
AXES	Compact			Bus	4301 P	86
AXES	Simple			Bus	2441	79
AXES	Sports Car	4388 P	86	Butterfly	4211 P	85
AXES	Auxiliary Operation (Flowchart)	1017	94	Buzz Saw	4171_	79
AXES Baboon	Axe			Cacti		89
Balance Scale, Unequal 4006 80 Camera, Move 2255 8 Balloon, Not Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 55 Captide Building 4215 7 BANNERS 58 Captide Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrier (Road Signs) 4060 77 Cardesian Coordinate Axes 9 Bars, Jail 4002 80 Carton (Open) 4038P 8 Bars, Gold 4043P 83 Cat 2423 8 Bass Clef 1749 52 Caterpillar 4117P 8 Beaker 4385P 87 Cent Sign (¢) 2027 7 Bed 2046 81 Conference (Layout) 1692 9 Bell, Ring-The- 4333P 83 Secretary's 276 8 Bell, Ring-The- (Top View) 4335P 83 Secretary's (Layout) 1552 9<	AXES	::::-		Cactus		89
Balance Scale, Unequal 4006 80 Camera, Move 2255 8 Balloon, Not Air 4347P 86 Candle 4424P 8 BALLOONS, WORD 55 Captide Building 4215 7 BANNERS 58 Captide Building 4215 7 BAR CHARTS 93 Care Of (c/o) 2031 7 Barrier (Road Signs) 4060 77 Cardesian Coordinate Axes 9 Bars, Jail 4002 80 Carton (Open) 4038P 8 Bars, Gold 4043P 83 Cat 2423 8 Bass Clef 1749 52 Caterpillar 4117P 8 Beaker 4385P 87 Cent Sign (¢) 2027 7 Bed 2046 81 Conference (Layout) 1692 9 Bell, Ring-The- 4333P 83 Secretary's 276 8 Bell, Ring-The- (Top View) 4335P 83 Secretary's (Layout) 1552 9<	Baboon	4450 P	85	Cactus, Prickly	4050	80
Beer Mug	Balance Scale, Equal	4005		Camera Movie	2265	79
Beer Mug	Ballance Scale, Unequal	4000 4247 D		Candle	4424 P	84
Beer Mug	BALLOONS WORD	434/P		Candle w/Holder	4144P	84
Beer Mug	BANNERS			Capitol Building	4215	78
Beer Mug	BAR CHARTS			Care Of (c/o)	2031	74
Beer Mug	Barrel	4019	78	Cargo Ship	1947	79
Beer Mug	Barrier (Road Signs)	4060		Cartesian Coordinate Axes		92
Beer Mug	Bars, Jail	4002		Carton (Open)		83
Beer Mug	Bars, Gold	4043P		Cataraillas		80
Beer Mug	Bass Clef	1749		Cost Sign (#)		85 74
Beer Mug	Beaker	4385P				/
Beer Mug	Bed, Teddy	4235P		Conference (Lavout)	1692	96
Bell	Reer Mug	4179		Executive Swivel (Layout)	1292	96
Bell Ring-The (Top View)	Bell Ring-The-	4333P		Secretary's	2276	82
Bell Curve 3323 66 Secretary's (Layout) 1552 9 Bell Curve w/Axes 1251 93 Sicde Chair (Layout) 1293 9 Bicycle 2271 79 Swivel 4422P 8 Biplane w/Banner 4330P 86 Champel-Lock Pliers 4343P 8 Blast Furnaces 4048 78 Chancel-Lock Pliers 4322P 8 Book 4357P 87 CHARTS, PIE, BAR & LINE 9 8 Border (Curled Edge) 1547 64 CHARTS, ORGANIZATIONAL 9 9 Border (Scroll) 3381 60 Checkmark 1296 5 Border (Scroll) 3381 60 Checkmark in Grid 4353P 8 Border (Stamp) 1496 82 Checkmark in Square 4379P 8 BORDERS, PAGE 60 Checkmark in Square 4379P 8 Box Arrow 2294 81 Chemical Glassware 4014 7 Box Arrow	Bell, Ring-The- (Top View)	4335 P		Secretary's	4437 P	87
Bell Curve W/Axes 1251 93 Side Chair (Layout) 1293 58 Bicycle 2271 79 Swivel 4422P 58 Biplane w/Banner 4330P 86 Champagne Glass 4343P 8 Blast Furnaces 4048 78 Channel-Lock Pliers 4322P 8 Book 4357P 87 CHARTS, PIE, BAR & LINE 9 Border (Curled Edge) 1547 64 CHARTS, ORGANIZATIONAL 9 Border (Parchment) 1937 60 Checkmark 1296 Border (Scroll) 3381 60 Checkmark in Grid 4353P Border (Stamp) 1496 82 Checkmark in Square 4379P 8 BORDERS, PAGE 60 Checkmark in 3rd Box 2041P 8 Box, Open 4038P 83 Chemical Glassware 4014 7 BOXES 59 Chemical Plant 2412 7 BOxes, Four (Jumbled) 4045P 83 Chicken 4071	Bell Curve	3323	66	Secretary's (Layout)	1552	96
Bicycle 2271 79 Swivel 4422P 8 Biplane w/Banner 4330P 86 Champagne Glass 4343P 8 Blast Furnaces 4048 78 Channel-Lock Pliers 4322P 8 Book 4357P 87 CHARTS, PIE, BAR & LINE 9 8 Border (Curled Edge) 1547 64 CHARTS, ORGANIZATIONAL 1296 9 Border (Parchment) 1937 60 Checkmark 1296 5 Border (Storoll) 3381 60 Checkmark in Grid 4353P 8 Border (Stamp) 1496 82 Checkmark in Square 4379P 8 BORDERS, PAGE 60 Checkmark in 3rd Box 2041P 8 Box Arrow 2294 81 Chemical Glassware 4014 7 BOXES 59 Chemical Plant 2412 7 BOxes, Four (Jumbled) 4045P 83 Chick in Egg 4320P Boxes, Tumbling 4360P 83	Bell Curve w/Axes	1251		Side Chair (Layout)	1293	96
Biplane w/Banner 4330P 86 Champelage Glass 4349P 8 Blast Furnaces 4048 78 Channel-Lock Pliers 4322P 8 Booker (Curled Edge) 1547 64 CHARTS, DIE, BAR & LINE 9 Border (Parchment) 1937 60 Checkmark 1296 Border (Scroll) 3381 60 Checkmark in Grid 4353P Border (Stamp) 1496 82 Checkmark in Square 4379P BONDERS, PAGE 60 Checkmark in Square 4379P Bow & Arrow 2294 81 Chemical Glassware 4014 BOX, Open 4038P 83 Chemical Plant 2412 BOXES 59 Chemical Plant 4316P 8 Boxes, Four (Jumbled) 4045P 83 Chick in Egg 4320P 8 Boxes, Tumbling 4360P 83 Child, Boy 2262 80 80 Child, Boy 2262 80	Bicycle	2271		Swivel	4422P	87 87
State Stat	Biplane w/Banner	4330 P		Champagne Glass	4343P	84
No.	Blast Furnaces	4048		CHARTS DIE BAR & LINE	4322P	92
1996 1997	Book	435/P		CHARTS ORGANIZATIONAL		91
Sorder (Scroll) 3381 60 Checkmark in Grid 4353P 800rder (Stamp) 1496 82 Checkmark in Square 4379P 800rDeFRS, PAGE 60 Checkmark in 3rd Box 2041P 80w & Arrow 2294 81 Chemical Glassware 4014 780x, Open 4038P 83 Chemical Plant 2412 780xES 59 Chemical Plant 4316P 80xES 59 Chemical Plant 4316P 80xes, Four (Jumbled) 4045P 83 Chick in Egg 4320P 80xes, Tumbling 4360P 83 Chicken 4071 80xes WiArrow 4012P 83 Child, Goy 2262 80xing Gloves 4365P 83 Child, Girl 2283 80xes, Tumbling 4365P 83 Child, Girl 4355P	Border (Parchment)	1037		Checkmark	1296	52
Border (Stamp) 1496 82 Checkmark in Square 4379P 8 8 8 8 8 8 8 8 8	Border (Scroll)	3381		Checkmark in Grid	4353 P	83
BORDERS, PÁGE 60 Checkmark in 3rd Box 2041P 8 Bow & Arrow 2294 81 Chemical Glassware 4014 7 Box, Open 4038P 83 Chemical Plant 2412 7 BOXES 59 Chemical Plant 4316P 8 Boxes, Four (Jumbled) 4045P 83 Chick in Egg 4320P Boxes, Tumbling 4360P 83 Chicken 4071 8 Boxes WiArrow 4012P 83 Child, Boy 2262 8 Boxing Gloves 4365P 83 Child, Girl 2283 8	Border (Stamp)	1496		Checkmark in Square	4379 P	83
Bow & Arrow 2294 81 Chemical Glassware 4014 7 Box, Open 4038P 83 Chemical Plant 2412 8 BOXES 59 Chemical Plant 4316P 8 Boxes, Four (Jumbled) 4045P 83 Chick in Egg 4320P 8 Boxes, Tumbling 4360P 83 Chicken 4071 8 Boxes WArrow 4012P 83 Child, Goy 2262 8 Boxing Gloves 4365P 83 Child, Girl 2283 8	BORDERS, PAGE			Checkmark in 3rd Box	2041 P	83
Box, Open 4038P 83 Chemical Plant 2412 7 BOXES 59 Chemical Plant 4316P 8 Boxes, Four (Jumbled) 4045P 83 Chick in Egg 4320P 8 Boxes, Tumbling 4360P 83 Chicken 4071 8 Boxes w/Arrow 4012P 83 Child, Boy 2262 8 Boxing Gloves 4365P 83 Child, Girl 2283 8	Bow & Arrow	2294	81	Chemical Glassware	4014	79
BOXES 59 Chemical Plant 4316P 8 Boxes, Four (Jumbled) 4045P 83 Chick in Egg 4320P 83 Boxes, Tumbling 4360P 83 Chicken 4071 8 Boxes WiArrow 4012P 83 Child, Boy 2262 8 Boxing Gloves 4365P 83 Child, Girl 2283 8	Box, Open	4038 P	83	Chemical Plant	2412	78
Boxes, Four (Jumbled) 4045P 83 Chick in Egg 4320P 8 Boxes, Tumbling 4360P 83 Chicken 4071 8 Boxes w/Arrow 4012P 83 Chilld, Boy. 2262 8 Boxing Gloves 4365P 83 Child, Girl. 2283 8	BOXES	1111		Chemical Plant	4316P	86
Boxes, lumbling 4360P 83 Chicken 4071 8 Boxes w/Arrow 4012P 83 Child, Boy. 2262 8 Boxing Gloves 4365P 83 Child, Girl 2283 8	Boxes, Four (Jumbled)	4045 P		Chick in Egg	4320P	85
Boxing Gloves 4365P 83 Child, Girl 2283 8	Boxes, Tumbling	4360P		Child Boy	2262	80 80
DOXING GIOVES 4300F 83 UNIIG. GIRL 2283 8	Boxes W/Arrow	4012 P		Child Girl	2202	80
Boy 2262 80 Church 2402 7	Box Gloves	4365 P		Church	2402	78
Boy 2262 80 Church 2402 7 Brace ({ }) 2133 75 Circle 1002 6	Proce (II)	2122		Circle	1002	68
Brace (1) 2133 75 Circles, Partial 1002 6	Brace (Long)	3331		Circles, Partial	1002	66
Brace (Brace, (Short)	1265		City Skyline	4123	78

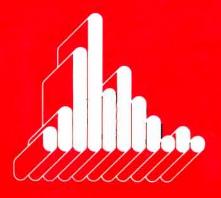
Description	Number	Page	Description	Number	Page
City Skyline w/Globe	4364P	87	Five-Drawer	4427 P	87
City Skyline (Horizon)	3347 P	89	Six-Drawer	2706	82
Clapboard (Movie)	4441P	85	Secretary's (Layout)	1290	96
Clipboard	4440 P	87	Secretary's w/Chair (Layout)	1291	96
City Skyline (Horizon) Clapboard (Movie) Clipboard Clock, Alarm	2289	82	Five-Drawer Six-Drawer Six-Drawer Secretary's (Layout) Secretary's w/Chair (Layout) Destroyer (Ship) Diagraph Logo Diamond (Jewel) Diamond (Playing Card) Diamonds (Accents) Dingbats (Accents) Direction Arrow (Flowchart) Disc, 3½ Inch	2014	79
Clock, Houng	2273	82	Diagraph Logo	9002 P	83
Clock, Square Clothing	4042	82	Diamond (Jewel)	4069 P	83
CLOUDS	2430	80	Diamond (Playing Card)	1928	52 52
Cumulus	4140 P	88	Diamonds (Accents)		52
Cumulus	4143P	88	Direction Arrow (Flowchart)	1666	52 ⁻ 95
Stratocumulus	4139 P	88	Disc. 3½ Inch	4439	82
Stratocumulus Thunderhead w/Lightning	4141P	88	Disc, 51/4 Inch	1974	82
w/Lightning	4142 P	88	Disc Drive	1972	82
Clover Lear	1948	81	Disc Storage (Flowchart)	1914	94
Club (Playing Card)	1904	52	Disc, 31/2 inch Disc, 51/4 Inch Disc, 51/4 Inch Disc Drive Disc Storage (Flowchart) Dish Antenna	4433 P	86
Commas		74	Display Display Division (+) Documents Dog, Puppy Dog, Terrier DOLLAR SIGNS One Bar	1654	94
COMMUNICATIONS FLOWCHARTS		95	Division (÷)	1703	75
Communication Links	4387 P	95	Dog Puppy	1982	82
Compact Car Compass Rose Comparison (Flowchart) COMPOSITION AIDS Computer Terminal Computer Paper	430/P	86 54	Dog Terrier	2278 2272	80 80
Comparison (Flowchart)	1004	94	DOLLAR SIGNS	2212	00
COMPOSITION AIDS		88	One Bar Two Bars 3D, End View	2025	74
Computer Terminal	1971	82	Two Bars	2026	74
Computer Paper	1495	82	3D, End View	4381 P	83
Conference Chair (Layout) Conference Table (Layout) Conference Table w/6 Chairs Conference Table w/8 Chairs		72	3D, Front View	4115 P	83
Conference Chair (Layout)	1692	96		4119 P	83
Conference Table (Layout)	1940	96	Text Block	1057	64
Conference Table w/6 Chairs	1698	96	Text Block Dolly (Hand Truck) Donkey	2047	81
Connector, Off-Page (Flowchart). Connector, On-Page (Flowchart). Convex Lens	2051 1924	96 94	Door	4058 2049	80
Connector, On-Page (Flowchart)	1980	94	Door (Open w/View)	4341 P	81 90
Convex Lens	2551	68	Door (to Cellar)	4341 P 4158 P	90
Copyright (©)	2744	75	Double Dagger (Reference)	2037	74
Conyright (©) Cosine/Sine Curve Coupler, Acoustic (Flowchart) Courthouse Cow	3330	66	Door Door (Open, w/View) Door (to Ceilar) Double Dagger (Reference) Dragon Dragon/Serpent Droplet Drum (55 Gallon) Dumbell	4116 P	85
Coupler, Acoustic (Flowchart)	1674	95	Dragon/Serpent	4369P	85
Courthouse	2405	78	Droplet	2598	52
Cow	4070	80	Drum (55 Gallon)	4019	78
Crane, Tower	4367 P	86	Dumbell	2553	68
Crane, Tower Cross, Narrow Cross, Wide	1684	68	Earth Station (Flowchart)	1145	95
Crosses, 3D	2535	68	Dumbell Earth Station (Flowchart) EDP Printout (Flowchart) EDP FLOWCHARTS Egg (w/Baby Chick) Eight Ball Eighth Note (Music) Eighth Notes (Music) Electric Socket Elephant Ellipses Engine, Steam Engine, Modern Envelope (Back) Envelope (Back) Envelope (Front) Equals (=) Equals (3) Erlenmeyer Flask	1655	94
Cross-Hairs		72 52	Edr FLOWCHARTS	4320 P	94
CRT		52	Fight Rall	3359	85 80
Communications (Flowchart)	2023	95	Fighth Note (Music)	1753	52
Display (Flowchart)	1654	94	Eighth Notes (Music)	1748	52
Personal Computer	1970	82	Electric Socket	2264	81
Screen	1097	94	Elephant	4057	80
W/Function Keys W/F-Keys Enlarged Crucible Crystal Ball Crystal Ball & Hat	1264	94	Ellipses		68
W/F-Keys Enlarged	1263	94	Engine, Steam	4098	79
Crucial Ball	4224 P	87	Engine, Modern	1967	79
Crystal Ball 9 Het	4394 P 4217 P	84	Envelope (Back)	2295	82
CUBES	421/ P	84	Envelope (Front)	2297	82
Four jumbled	4045 P	83	Fouris (=)	2673 1718	75 75
Four jumbled		69	Erlenmeyer Flask	4230 P	87
Perspective		70	Erlenmeyer Flask	4201	79
		73	Erlenmeyer Flask Erlenmeyer Flask Exclamation Point, Round	2130	74
Tumbling	4360 P	83	Exclamation Point, Round Exclamation Point, Block Exclamation Point, 3D	1506	74
w/Arrow	4012 P	83	Exclamation Point, 3D	1720	75
Tumbling w/Arrow Cup, Trophy Curves	4027	80	Exceptioner's Axe Explosion Explosion Hole Explosion Fragments Explosions Exponential Curve Exponential WAxes Exponential Inverse	2437	81
Curves (see Functions)		66	Explosion	1723 P	84
	40408		Explosion Hole	4128P	84
Cutlass	4340 P 4229 P	84 87	Explosion Fragments	4127 P	84
Cylinders 3D Oblique	4229 P	69	Exponential Curve	3324	61 66
Cylinders, 3D Perspective		72	Exponential w/Axes	1255	93
	4359 P	84	Exponential, Inverse	3325	66
Dagger, Double (Notation)	2037	74	Exponential, Inv. w/Axes	1256	93
Dagger, Double (Notation)	2038	74	Exponential, Inverse Exponential, Inv. w/Axes Extinguisher, Fire	2413	81
Dasn (—)	1706	75	Exunguisner, Fire Extract (Flowchart). Face (Smiling Man) Face (Profile) Face (Profile) Face (Profile w/Globe) Face (Woman) Faces (Carloon Form) Family Farm	1003	94
Data Access Arrangement	1672	95	Face (Smiling Man)	4146 P	85
DATA COMMUNICATIONS			Face (Profile)	4384 P	85
FLOWCHARTS		95	Face (Profile)	1969	80
Dead-End Overses	4421 D	95	Face (Woman)	4370 P	85
Decagon	4431 P 2529	86	Faces (Cartoon Form)	4402 P 4118	85
Decision (Flowchart)	1920	67 94	Family	2433	80 80
Data Processing Flowcharts Dead-End Overpass Decagon Decision (Flowchart) Deer	4082	80		4046	78
Desert/Mesas (Horizon)	3344 P	88	Farm Scene	4080 P	89
DESKS			Faucet	4383 P	84
Ensemble (Layout)	1294	96	Farm Scene Faucet Female Symbol	1709	75

Description	Number	Page	Description	Number	Page
File Cabinet	2274	82	Hard Hat	2290	80
File Cabinet	4423 P	87	Hat Miner's	2424	80
File Cabinet Open	4352 P	87	Hat Uncle Sam's	4332 P	84
Fire	2449	81	Hat Ton	4237	80
Fire Extinguisher	2413	81	Head (Profile)	1969	80
File Cabinet File Cabinet File Cabinet Fire Extinguisher Fish Flag Flag Flag, Waving Flame	4111P	85	Head (Profile)	4384 P	85
Flag	1944	81	Head (Profile w/Globe)	4370 P	85
Flag	4397 P	84	Head (Smiling Man)	4146 P	85
Flag. Waying	1946	81	Head (Woman)	4402 P	85
Flame	2449	81	Heads, Cartoon	4118	80
Flashlight w/Spot	2708 P	84	Heart	1580	80
Flame Flashlight w/Spot Flask, Erlenmeyer	4230 P	87	Heart (Playing Card)	1581	52
Flask, Florence	4221 P	87	Hard Hat Hat, Miner's Hat, Uncle Sam's Hat, Top Head (Profile) Head (Profile) Head (Profile w/Globe) Head (Woman) Head (Woman) Heads, Cartoon Heart Heart (Playing Card) Heavy Industry Helicopter Hen Hexagons	4077 P	89
Flask, Volumetric	4231 P	87	Helicopter	2280	79
Flasks FLOWCHARTS, DP Foil (Fencing) Food Service Sign Foothills		87	Hen	4071	80
FLOWCHARTS, DP		94	Hexagons		67
Foil (Fencing)	4336 P	84	Highlight (Whorl)	1932	53
Food Service Sign	4088	76	Highway	3343 P	90
Foothills	3346 P	88	Highway Overpass, Unfinished	4431 P	86
	1212	82	Hexagons Highlight (Whorl) Highway Highway Overpass, Unfinished Hills Hills	4153 P	88
Four Leaf Clover Frames (Page Borders) Frames, 3D	1948	81	Hills/Mountains (Horizon) Hilly Road Hole, Broken Glass	3346 P	88
Frames (Page Borders)		60	Hilly Hoad	4236 P	90
Frames, 3D		73	Hole, Broken Glass	4128P	84
Frames, Sign	4666	76	House	2298	78
Function Keys, Enlarged	1263	94	Hot Air Balloon	4347 P	86
Function Keys On Screen	1264	94	Humpty Dumpty	4311 P	85
Function Keys, 10	2678	94	LReam Cross Section	1706	75 ⁻ 79
Frames, SU Frames, Sign Function Keys, Enlarged Function Keys On Screen Function Keys, 10 Function Keys, 8 FUNCTIONS	2677	94	Hole, Broken Glass House Hot Air Balloon Humpty Dumpty Hyphen (-) I-Beam Cross-Section ICONS In/Out Basket Infinity (Notation) Ingots	2420	79 78
Bell	3323	66	In/Out Basket	3383	82
Cubic	3326	66	Infinity (Notation)	1780	75
Exponential Hyperbolic Inverse Exponential	3324	66	Ingots	4043 P	83
Hyperbolic	3329	66		1921	94
Inverse Exponential	3325	66	Input, Manual (Flowchart)	1915	94
	3328	66	Integral (Notation)	1714	75
Quartic	3327	66	Interrupt, Terminal (Flowchart) Inverse Multiplexer (Flowchart)	1656	94
Sine/Cosine	3330	66	Inverse Multiplexer (Flowchart)	2019	95
Tangent	2644	66	Jail	4002	80
Quartic Sine/Cosine Tangent FUNCTIONS w/AXES			Jar, Gas Generating	4234 P	87
Dell	1251	93	Jewel (Diamond)	4069 P	83
Cubic	1253	93	Jail Jar, Gas Generating Jewel (Diamond) Judge	4029	80
Cubic Inflection	1252	93	Key, Common Key, Old-Fashioned Key, Skeleton	4407 P	84
Exponential Inverse Exponential Logarithmic	1255	93	Key, Old-Fashioned	4210 P	84
Inverse Exponential	1256	93	Key, Skeleton	4361 P	84
Logarithmic	1257	93	Keyhole Keying (Flowchart) Keys on Ring Ladle, Steel Mill Lamp	4073	80
Parabolic Funnel Cloud (Tornado) Gas Plant Gas Constitution Les	1258	93	Keying (Flowchart)	1653	94
Funnel	4227 P	87	Ledie Charl Mill	4314 P	84
Con Plant	4143P	88	Ladie, Steel Mill	2407	79
Gas Plant Gasoline Pump Gaussian Curve Gaussian Curve w/Axes Gavel Gears GEOMETRICS	4049	78	Landospess	2292	81
Gasolino Pump	4234 P 2263	87 78	LAVOUT OFFICE		88 96
Gaussian Curve	3323	66	Leaf Manle	4041 P	83
Gaussian Curve	1251	93	Leaf Manle	1949	81
Gavel	2042	80	Leaf Oak	4356 P	83
Gears	4061	79	Lens. Convex	2551	68
GEOMETRICS	4001	66	Less Than (Notation)	1702	75
GEOMETRICS Gibbons Moon Girl	2730	53	Less Than or Equal To (Notation)	1707	75 75 53
Girl	2283	80	Light Beam	1799	53
Glass Martini	4343 P	87	Lamp Landscapes LAYOUT, OFFICE Leaf, Maple Leaf, Oak Lens, Convex Less Than (Notation) Light Beam Light Bulb Lighted Buoy	4425P	84
Globe w/Grid	4036	82	Lighted Buoy	4138	78
Globe w/Grid Globe w/Head Globe w/Meridian Lines	4370 P	85	Lighted Buoy Lighthouse Lightning Bolt (Curved) Lightning Bolt (Straight)	2442	78
Globe w/Meridian Lines	4037	82	Lightning Bolt (Curved)	2053	53
Globe w/Skyline	4364 P	87	Lightning Bolt (Straight)	2052	53
Gloves, Boxing	4365 P	83	Lightning Storm	4142 P	88
Gold Bars	4043 P	83	LINE CHARTS		93
Golf Ball (on Tee)	4363 P	83	Line Concentrator (Flowchart)	1667	95
Graduated Cylinder	4229 P	87	Line Sharing (Flowchart)	1669	95
Grain Elevator	2435	78	Line, Single	2487	66
Gramophone	4428 P	83	Lines, Parallel	2488	66
Globe w/Skyline Gloves, Boxing Gold Bars Golf Ball (on Tee) Graduated Cylinder Grain Elevator Gramphone Grids (Circular) Grids (Composition Aids) Gun (Pistol) Gun (Rifle) Half Moon		92 90	Line Sharing (Flowchart) Line, Single Lines, Parallel Lines, Perpendicular Links, Communications (Flowchart) Lock (Padlock)		66
Gun (Pietol)	2285	90 81	Lock (Padlock)	4109P	95
Gun (Rifle)	2712	81	Lock Keyhole	4109P 4073	84 80
Half Moon	4086	53	Locomotive Steam	4073 4098	79
Half Moon	4170 P	89	Lock, Keyhole Locomotive, Steam Locomotive, Modern	4098 1967	79 79
	1752	52	Logarithmic Curve w/Aves	1257	93
Hand, Pointing	1121	52 57	Logarithmic Curve w/Axes Logarithmic Grids	1237	93 92
Hand, Pointing Palm Out	4131P	85	Loving Cup (Trophy)	4027	80
Hand, Pointing Palm Down	4132 P	85	Lozenges	TOL/	68
Hand Truck (Dolly)	2047	81	Magnet	1578	80
Hands, Shaking	4130 P	85	Magnetic Tape (Flowchart)	1662	94
Hand, Pointing Hand, Pointing Palm Out Hand, Pointing Palm Down Hand, Pointing Palm Down Hand Truck (Dolly) Hands, Shaking Harbor Scene	4455 P	89	Loving Cup (Trophy) Lozenges Magnet Magnetic Tape (Flowchart) Magnifying Glass	4368	81
		30	g,g = 1000 1111111111111111111111111111111	.555	31

Description	Number	Page	Description	Number	Page
Magnifying Glass Male Symbol Man Man (Pulling Rope) Man (Smiling) Man (Weightlifter) Man w/Magnifying Glass Manual Input (Flowchart) Manual Operation (Flowchart) Map (Statelines for USA)	4351 P	84	Overpass, Unfinished	4431 P	86
Male Symbol	1710	75	Packet (Flowchart)	1001	95
Man	2282	80	Pad of Paper (Border)	4196	60
Man (Pulling Rope)	4145 P	85	Overpass, Unfinished Packet (Flowchart) Pad of Paper (Border) Pad and Pencil	2296	82
Man (Smiling)	4146 P	85	Padlock PAGE BORDERS Paint Brush and Can	4109 P	84
Man (Weightlifter)	4204 P	85	PAGE BOHDERS	2419	60
Man w/Magnifying Glass	4165 P	85	Paint Brush and Can	4389 P	81 83
Manual Input (Flowchart)	1921 1916	94 94	Palette	3366 P	89
Man (Statelines for USA)	4395 P	87	Palm Tree Pamphlet	1526	82
Map (Time Zones for USA)	4126 P	87	PAPER	.020	
Map (U.S.A. Outline)	4103 P	87	Bent Corner	1547	64
Map (U.S.A. 3D)	4350P	87	Computer	1495	82
Map (U.S.A. w/States)	4349 P	87	Folded Pad w/Pencil	4345	82
Maple Leaf	4041 P	83	Page Lifted	2296 1979	82 82
Martini Glass	1949 4343 P	81 87	Torn	4374	82
Manual Operation (Flowcrary) Map (Statelines for USA) Map (Time Zones for USA) Map (U.S.A. Outline) Map (U.S.A. 3D) Map (U.S.A. wStates) Maple Leaf Maple Leaf Martini Glass Maze	4445 P	83	Pages Lifted Pages Lifted Torn Parabola Parabola w/Axes Paragraph Parallelereres	3328	66
Maze Medal Medical Logo (Caduceus)	4004	80	Parabola w/Axes	1258	93
Medical Logo (Caduceus)	4052	80	Paragraph	2791	75
Merge (Flowchart)	1918	94	Paragraph Parallelograms Parchment (Border) Parenthesis (()) Parenthesis/Bracket (()) PBX (Flowchart) Pencil Pennant Pennant	1007	67
Message (Bulletin Board) Microphone Microscope	2663	64	Parchment (Border)	1937 2129	60
Microphone	2299	79 79	Parenthesis/Bracket (/)	2131	75 75
Mine Head	2043 2436	79 78	PBX (Flowchart)	1677	95
Miner's Helmet	2424	80	Pencil	4039P	87
Minus (Notation)	1706	75	Pennant	4398 P	84
Mine Head Miner's Helmet Minus (Notation) Missiles Modern (Flowched)	4053	79	Pennant, One Point Pennant, Swallowtail Pentagon, Irregular Pentagon, Equilateral	1945	81
	1665	95	Pennant, Swallowtail	2438	81
Modem	1973	82	Pentagon, Irregular	2520 2519	67 67
Modem, Multiport (Flowchart)	1670 4451	95 81	People	2319	80
Moon	4170 P	89	Per Thousand (0/00)	2035	74
Moon Moon, First Quarter Moon, Third Quarter	4086	53	Percent (%)	2034	74
Moon, Third Quarter	2730	53	Perpendicular Lines		66
	4081 P	90	Pentagon, Equilateral People Per Thousand (0/00) Percent (%) Perpendicular Lines Person PERSPECTIVE, 3D Geometrics	1959	80
Mountain Peaks	4155 P	88	FERSFECTIVE, 3D Geometrics	2275	72 82
Mountain Peaks Mountain Scene Mountains/Hills (Horizon) Movie Camera	3348 P 3346 P	88	Phone	4444 P	87
Movie Camera	2265	88 79	Phonograph	4428 P	83
Mule	4058	80	Pi (Notation)	1712	75
Mule Multiplexer (Flowchart) Multiplexer, Inverse (Flowchart) Multiplication (×)	1671	95	Phone Phonograph Pi (Notation) Pick and Shovel	2417	83 75 79
Multiplexer, Inverse (Flowchart)	2019	95	PICTORIALS		83
Multiplication (x)	1704	75	PIE CHARTS	40000	93
Multiport Modem (Flowchart)	1670	95	PICTORIALS PIE CHARTS Pig Pinwheels	4328 P	85 53
	4015	81 52	Pinwheels Pistol Planet w/Rings Plane, Wood Pliers, Channel Lock Plus (+) Plus 3D	2285	81
Musical Notes NETWORKS Node (Flowchart) NOTATION Not Equal (±) Note (Bulletin Board) Notes, Music		97	Planet w/Rings	1741	79
Node (Flowchart)	1980	95	Plane, Wood	2416	79
NOTATION		74	Pliers, Channel Lock	4322 P	84
Not Equal (#)	2674	75	Plus (+)	1705	75
Note (Bulletin Board)	2663	64	Plus, 3D	1719	75 75
Notes Music (Individual)	4015	81 52	Plus or Minus (±)Polar Coordinate Axes	1715	92
Nuclear Power Plant	4047	78	Polled Terminal (Flowchart) Polyhedra Polyhedron, 20-Sided	1675	95
Number One. 3D	4228 P	83	Polyhedra		73 73
Number (#)	2028	74	Polyhedron, 20-Sided	2447	73
Note (Bulletin Board) Notes, Music Notes, Music (Individual) Nuclear Power Plant Number One, 3D Number (#) Number (#) Number (#) OBLIQUE, 3D Geometrics Octaoons	4040	75	Pound (lb.)	2036	74
ORLIQUE 3D Coomatrics	4356 P	83	Pound (#)	2028 4040	74 75
Octagons		69 67	Pound (#), 3D Pound Sterling (Notation) Power Plant, Nuclear	2039	75 74
Octahedrons		73	Power Plant, Nuclear	4047	78
	1924	94	Prairie	4152 P	88
Office Bldg., 1-Story	4011	78	Prairie Preparation (Flowchart) Prescription (Rx)	1917	94
Office Bldg., Skyscraper	4050	78	Prescription (Rx)	1716	75
OFFICE LAYOUT	40508	96	Pressure Valve PRIMITIVES Printer,Simple	4105 P	84
Oil Can (Pour)	4358 P 4338 P	87 87	Printer Simple	1977	66 82
Oil Darrick	4336F 4366	78	Printer, 3D	1978	82
Oil Befinery	4078 P	89	Printout (Flowchart)	1655	94
Off-Page Connector (Flowchart) Office Bldg., 1-Story Office Bldg., Skyscraper OFFICE LAYOUT Oil Can (Pour) Oil Can (Squirt) Oil Derrick Oil Refinery Oil Refinery Oil Rig Oil Rig	2434	78	Printout (Flowchart) Prisms, Oblique Prisms, 3D		69
Oil Rig	4366	78	Prisms, 3D		71
Oil Rig	4372 P	86	Process	1669	94
On Line Storage (Flowshort)	1966 1658	78 94	Profile, Human Head Profile, Human Head Profile w/Globe	1969 4384 P	80 85
On-Line Storage (Flowchart) On-Page Connector (Flowchart) One (Block)	1980	94 94	Profile w/Globe	4384 P 4370 P	85
One (Block)	4228 P	83	Protractor	2664	66
	4038 P	83	Puddle	1549	61
ORGANIZATIONAL CHARTS		91	Pump, Gasoline	2263	78
ORGANIZATIONAL CHARTS Ounce (oz) Output (Flowchart)	2792	74	Pump. Oil Well	1966	78
Output (Flowchart)	1915	94	Punched Card (Flowchart)	1652 1657	94 94
Orais		68	runoned rape (Flowellatt)	1037	34

Description	Number	Page	Description	Number	Page
Pyramids Pyramids Quadrilaterals Quadrer Note (Music) Question Mark Question Mark, 3D Question Mark, Tapered Radiation Radio Tower		69	Signs (on Roadside)	4302 P	90
Pyramids	4375 P	88	SIGNS		
Quadrilaterals	: :	67	Airport	4067 4001	76 76
Quarter Note (Music)	1751 1505	52 74	Bar	4064	76 76
Question Mark, 3D	2731	7 5	Barrier	4060	77
Question Mark, Tapered	1583	74	Bus Stop	4134	76
Radiation	1598	52	Construction	4083 1996	76 76
Radio Tower	2406 2288	78 79	Airport Baggage Bar Barrier Bus Stop Construction Danger! Directional Do Not Enter Electrical Danger Elevator Explosives	4176	77
Radio, Modern Radio, Old-Fashioned Railroad Car	20.40	81	Do Not Enter	1930	77
Raulico (Not-Rasinoleu Railroad Car Railroad Engine, Modern Railroad Engine, Steam Railroad Tracks Rainbow W/Pot of Gold Reactor Record Player Reference Point (Flowchart) Refinery (Horizon) Refrigerator Registered Trademark (*) Registered Trademark (*) Registration Marks Remote Batch Terminal Retort Rhombus Ribbon (1st Place) Rifle Right Angle Ring-The-Bell (Front View)	1968	79	Electrical Danger	1629 4062	76 76
Railroad Engine, Modern	1967 4098	79 79	Explosives	4085	76
Railroad Tracks	4339 P	90	Falling Rocks	1975	76
Rainbow w/Pot of Gold	2702 P	83	Fire Hazard	4075 4066	76 76
Record Player	4047 4428 P	78 83	Elevator Explosives Falling Rocks Fire Hazard First Aid. Flammable	4075	76 76
Reference Point (Flowchart)	1116	94	Food Service	4088	76
Refinery	2434	78	Handicapped	1597	76
Refinery (Horizon)	4078 P 2293	89 81	Intersection	4065 1957	76 77
Registered Trademark (*)	2745	75	Interstate Highway	1997	76
Registration Marks		52	Keep Right	4092	77
Remote Batch Terminal	1678	95	Left Turn or Straight	4094 4093	77 77
Phombus	4390 P 1004	87 67	Median Ahead	1998	77
Ribbon (1st Place)	4371 P	83	Merging Traffic	4177	77
Rifle	2712	81	No Bridge	1999 1909	76
Right Angle	2620 4333 P	66	No Lett Turn	2111	77 77
Hight Angle Ring-The-Bell (Front View) Ring-The-Bell (Top View) Road, Curved Road, Intersections Road, Mountainside Road Role	4335 P	83 83	No Right Turn	1911	77
Road, Curved	4459 P	90	No Smoking	4055	76
Road, Intersections	4081 P	90	No I Turn	1910 1908	77 7 7
Road Roller	4081 P 4110 P	90 86	One Way	1929	77
Road, Straight	3343 P	90	Parking Permitted	2112	77
Road Roller Road, Straight Road w/Hills Road w/Hills	4154 P	90	First Aid. Flammable Food Service Handicapped Information Intersection Interstate Highway Keep Right Left Turn Left Turn or Straight Median Ahead Merging Traffic No Bridge No Left Turn No Parking No Right Turn No Smoking No Trucks No U Turn One Way Parking Permitted Pedestrian X-ing Picnic Area Prohibited (Generic) Radiation Railroad Railroad Railroad Railroad Restaugant	1995 4096	77 76
Road w/Signs	4236 P 4302 P	90 90	Prohibited (Generic)	1801	76 76
Road Signs (see Signs)	40021	30	Radiation	4074	76
Road w/filins Road Wisigns Road Signs (see Signs) Rockets Rocky Slopes Rotary (Flowchart) Round Table w/Chairs (Layout) Rowhouse	4053	79	Railroad	1939	77
Rocky Slopes	4151 P 2024	88 95	Restaurant	4136 4088	77 76
Round Table w/Chairs (Layout)	1693	96	Riverbank	1999	76
Rowhouse	4010	78	Road Curves	1902	77
Ruler	4024 P	87	Hoad Narrows	1994 1730	77 77
Running Figure Rurnal Scene Safe (Vault) Sailboat Satellite (Flowchart) Satellite (Flowchart)	4446 P 4080 P	85 89	Road Turns	1956	77
Safe (Vault)	4213 P	87	S-Curve	1729	77
Sailboat	2045	79	School Crossing	4135 1955	76 77
Satellite (Flowchart)	4054 2022	79 95	Slipperv When Wet	4175	77
Satellite Dish Antenna	4433 P	86	Stop	1912	77
Saturn	1741	79	Taxi	4068	76 76
Scale, Balanced	4005 4006	80 80	Three-Way	3392 1907	76 77
Schoolhouse	2040	78	Train Stop	4084	76
Scissors (Open)	4382 P	84	U.S. Highway	1630	76
Saturn Scale, Balanced Scale, Unbalanced Schoolhouse Scissors (Open) Scissors (Closed) Screen, CRT Screen w/Function Keys Screen (F-Keys Enlarged) Scroll	4321 P 1097	84 94	Wear Goggles	4087 1903	76 77
Screen w/Function Keys	1264	94	Y-intersection	1730	77
Screen (F-Keys Enlarged)	1262	94	Yield	1906	77
Scroll	2113	82	Signal Light w/Arrow	1926 1925	77 77
Section Mark (Notation)	3381 1717	60 74	Sine/Cosine Curve	3330	66
Septagon	2523	67	Sink	2291	81
Shaking Hands	4130 P	85	Skeleton Key	4361 P 4056 P	84 81
Shamrock	1948 4355 P	81 86	Skyscraper	4050F	78
Ship, Cargo	1947	79	Snail	4442 P	85
Ship, Destroyer	2014	79	Snowflake	1553	53
Shipyard (Horizon)	4455 P 4359 P	89 84	Sofa. 2 Cushion (Layout)	2264 1289	81 96
Shovel and Pick	4359 P 2417	84 79	Sofa, 3 Cushion (Layout)	1551	96
Shrubs		89	Sort (Flowchart)	1919	94
Sigma (Notation)	1713	75 76	Sow (Pig)	4328 P 1934	85 52
Sign Post (3 Arrows)	4412P	90	Spark Plug	4354 P	84
Sign Post (4 Arrows)	4432 P	90	Spilled Liquid	2743	61
Signboard	3382	60	Sparkles		53
Scroll (Page Borders) Scroll (Page Borders) Section Mark (Notation) Septagon Shaking Hands Shamrock Ship Ship, Cargo Ship, Cargo Ship, Destroyer Shipyard (Horizon) Shortsword Shovel and Pick Shrubs Sigma (Notation) Sign Borders Sign Post (3 Arrows) Sign Bost (4 Arrows) Signboard Signs (Many/Confusing)	4310 P	86	Addiation Railroad Railroad Railroad Railroad Railroad Railroad Restaurant Riverbank Road Curves Road Narrows Road Splits Road Turns S-Curve School Crossing Secondary Road Slippery When Wet Stop Taxi Telephone Three-Way Train Stop U.S. Highway Wear Goggles Winding Road Y-intersection Yield Signal Light Signal Light Signal Light Signal Light Signal Light Signal Corse Sink Skeleton Key Skull & Crossbones Skyscraper Snail Snowflake Socket, Electrical Sola, 2 Cushion (Layout) Sofa, 3 Cushion (Layout) Sof, 3 Cushion (Layout) Sor (Flowchart) Sow (Pig) Spark Plug Spilled Liquid Sparkles SPLASHES		61

4388P 4377P 1711 4082 4429P 1496 2429 3360P 4395P 4349P 4098 4110P 2407 2039 2736 2287 1914 1658	86 84 75 80 90 82 82 88 62 87 79 86 79 74 64	Tree, Evergreen Trees Trestle Bridge Triangle, Acute/Obtuse Triangle, Equilateral Triangle, Isoceles Triangle, Right Tripod Trophy Cup Truck, 18-Wheeler Tumbling Boxes TV Umbrella	2270 2266 2403 2504 2501 2502 2503 4393P 4027 4108P 4360P	
1711 4082 4429P 1496 2429 3360P 4395P 4098 4110P 2407 2039 2736 2287 1914	75 80 90 82 82 88 62 87 87 79 86 79 74 64	Trees Trestle Bridge Triangle, Acute/Obtuse Triangle, Equilateral Triangle, Isoceles Triangle, Right Tripod Trophy Cup Truck, 18-Wheeler Tumbling Boxes TV Umbrella	2403 2504 2501 2502 2503 4393 P 4027 4108 P	
4082 4429P 1496 2429 3360P 4395P 4349P 4098 4110P 2407 2039 2736 2287 1914	80 90 82 82 88 62 87 79 86 79 74	Trestle Bridge Triangle, Acute/Obtuse Triangle, Equilateral Triangle, Isoceles Triangle, Right Tripod Trophy Cup Truck, 18-Wheeler Tumbling Boxes TV Umbrella	2504 2501 2502 2503 4393 P 4027 4108 P	
1496 2429 3360P 4395P 4349P 4098 4110P 2407 2039 2736 2287 1914 1658	82 82 88 62 87 87 79 86 79 74 64	Triangle, Acute/Obtuse Triangle, Equilateral Triangle, Isoceles Triangle, Right Tripod Trophy Cup Truck, 18-Wheeler Tumbling Boxes TV Umbrella	2501 2502 2503 4393 P 4027 4108 P	
2429 3360P 4395P 4349P 4098 4110P 2407 2039 2736 2287 1914 1658	82 88 62 87 87 79 86 79 74 64	Triangle, Isoceles Triangle, Right Tripod Trophy Cup Truck, 18-Wheeler Tumbling Boxes TV Umbrella	2502 2503 4393 P 4027 4108 P	
3360P 4395P 4349P 4098 4110P 2407 2039 2736 2287 1914 1658	88 62 87 87 79 86 79 74 64	Triangle, Right Tripod Trophy Cup Truck, 18-Wheeler Tumbling Boxes TV Umbrella	2503 4393 P 4027 4108 P	
4395P 4349P 4098 4110P 2407 2039 2736 2287 1914 1658	62 87 87 79 86 79 74 64	Tripod Trophy Cup Truck, 18-Wheeler Tumbling Boxes TV Umbrella	4393 P 4027 4108 P	
4349 P 4098 4110 P 2407 2039 2736 2287 1914 1658	87 87 79 86 79 74 64	Trophy Cup Truck, 18-Wheeler Tumbling Boxes TV Umbrelia	4027 4108 P	
4349 P 4098 4110 P 2407 2039 2736 2287 1914 1658	87 79 86 79 74 64	Truck, 18-Wheeler Tumbiling Boxes TV Umbrella	4108 P	
4098 4110 P 2407 2039 2736 2287 1914 1658	79 86 79 74 64	Tumbling Boxes		
4110 P 2407 2039 2736 2287 1914 1658	86 79 74 64	TV		
2039 2736 2287 1914 1658	74 64	Umbrella	4072	
2736 2287 1914 1658	64		4203 P	
2287 1914 1658		USA Map		
1914 1658		Outline	4103 P	
1658	94		4350 P 4395 P	
	94	States	4349 P	
	78	Time Zones	4126 P	
4204P	85	Vault Safe	4213 P	
2013	79	Video Screen	1097	
4079 P	89	Vial	4020	
1731	79	Vial		
3353 P		Volumetric Flask		
2410		Water/Ocean		
		Water Tower		
		Whorl (Accent)		
4336 P	84	Windmill		
4359 P	84	Wizard's Hat w/Crystal Ball	4217 P	
2401	81	Woman	2284	
1111-	96	Woman (Face)	4402 P	
		Wood Plane	2416	
		Work Stations (Laurent)		
		World w/Grid	4026	
		World w/Meridians		
		X-Axes 12 Months		
4235 P		X-Axes, 24 Months		
2277	78	X-Axes, 53 Weeks		
	82	X-Mark on Grid		
2021		Yen Sign	2735	
2020				
	82			
4137	78			
4121 P		·		
4020	79			
	73			
	64			
4311 P	85			
4126 P	87			
4237	80			
	84			
2440				
2418	79			
1923	94			
2406	78			
2288				
2281				
	-			
	1731 3353P 2418 4346P 4346P 4344P 4346P 4359P 2401 4114P 2428 1662 1652 1652 1652 1652 1653 1678 1678 1678 1656 1656 1656 1656 1656 1656 1656 165	1731	1731 79 Vial 3353P 89 Volumetric Flask 53 Water Droplet 2418 79 Water/Ocean 4346P 84 Water Tower 4336P 84 Windril (Accent) 4336P 84 Windril (Accent) 4336P 84 Wizard's Hat w/Crystal Ball 2401 81 Woman 56 Woman (Face) 4114P 87 Wood Plane 2428 82 WORD BALLOONS 1662 94 Work Stations (Layout) 1657 94 World w/Grid 1923 94 World w/Grid 1923 94 World w/Grid 1923 95 X-Axes, 24 Months 2277 78 X-Axes, 33 Weeks 2277 78 X-Axes, 33 Weeks 2277 78 X-Axes, 33 Weeks 2277 78 X-Axes, 37 Weeks 2277 Yen Sign 2020 95 4377P 84 4072 82 4137 78 1971 82 2023 95 1678 95 1678 95 1678 95 1678 95 1678 95 1679 97 1057 64 1057 65 1058 65 1	1731 79 Vial 4121P 3353P 89 Volumetric Flask 4231P 53 Water Droplet 2598 4346P 84 Water Tower 2409 4346P 84 Whorl (Accent) 1932 4336P 84 Windmill 4051 4358P 84 Wizard's Hat w/Crystal Ball 4217P 2401 81 Woman 2284 114P 87 Wood Plane 2416 2428 82 WORD BALLOONS 1662 94 Work Stations (Layout) 1657 94 World w/Grid 4036 1923 94 World w/Grid 4036 1923 94 World w/Grid 4036 1923 94 World w/Meridians 4037 2277 78 X-Axes, 24 Months 4193 2277 78 X-Axes, 25 Weeks 4194 4444P 87 X-Mark on Grid 4223P 4444P 87 X-Mark on Grid 4223P 4236 95 4377P 84 4072 82 4119 87 4072 82 4119 87 4072 82 4119 87 4072 82 4119 87 4079 88 4444P 87 47 X-Mark on Grid 4223P 48 X-Mark on



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