

FIGURE 2-1
Flowcharting Symbols for Manual Systems

Document — paper documents and reports of all types. *Examples:* sales invoice, receiving report, time card/time report.

Manual Operation or Process — the performance by a human of any processing function which causes a change in value, form, or location of information. *Example:* sales invoice prepared by clerk.

Terminator — beginning, ending, or interruption of flowchart; used to indicate information entering or leaving system. *Example:* receipt of order from customer.

Off-line Storage — off-line storage of documents and records. *Example:* a duplicate sales invoice is filed in numerical order (typically N-numerical, A-alphabetical, C-chronological, T-temporary).

Journal/Ledger Symbol — recording of processed information in journals or posting to ledgers. *Example:* entry in sales journal.

Decision — used to indicate a decision requiring different actions for a yes or no answer. *Example:* Is customer credit satisfactory?

Annotation — the addition of descriptive comments or explanatory notes as clarification. *Example:* a billing clerk checks credit before preparing an invoice.

On-page Connector — exit to, or entry from, another part of flowchart on same page; keyed by using numbers. *Example:* a document transfer from one department to another.

Off-page Connector — exit to, or entry from, another part of flowchart on different page; keyed by using page numbers and key letters. *Example:* flowchart logic jumps to page four (4), key letter B.

Flowlines

Direction of processing or data flow. A solid line indicates a document flow; a dotted line indicates an information flow.

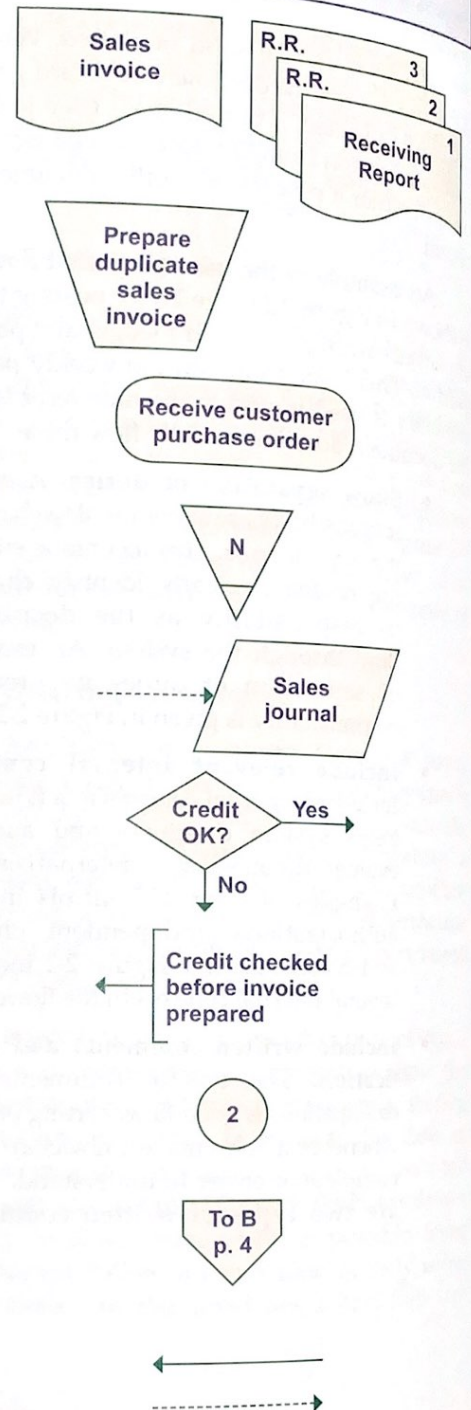
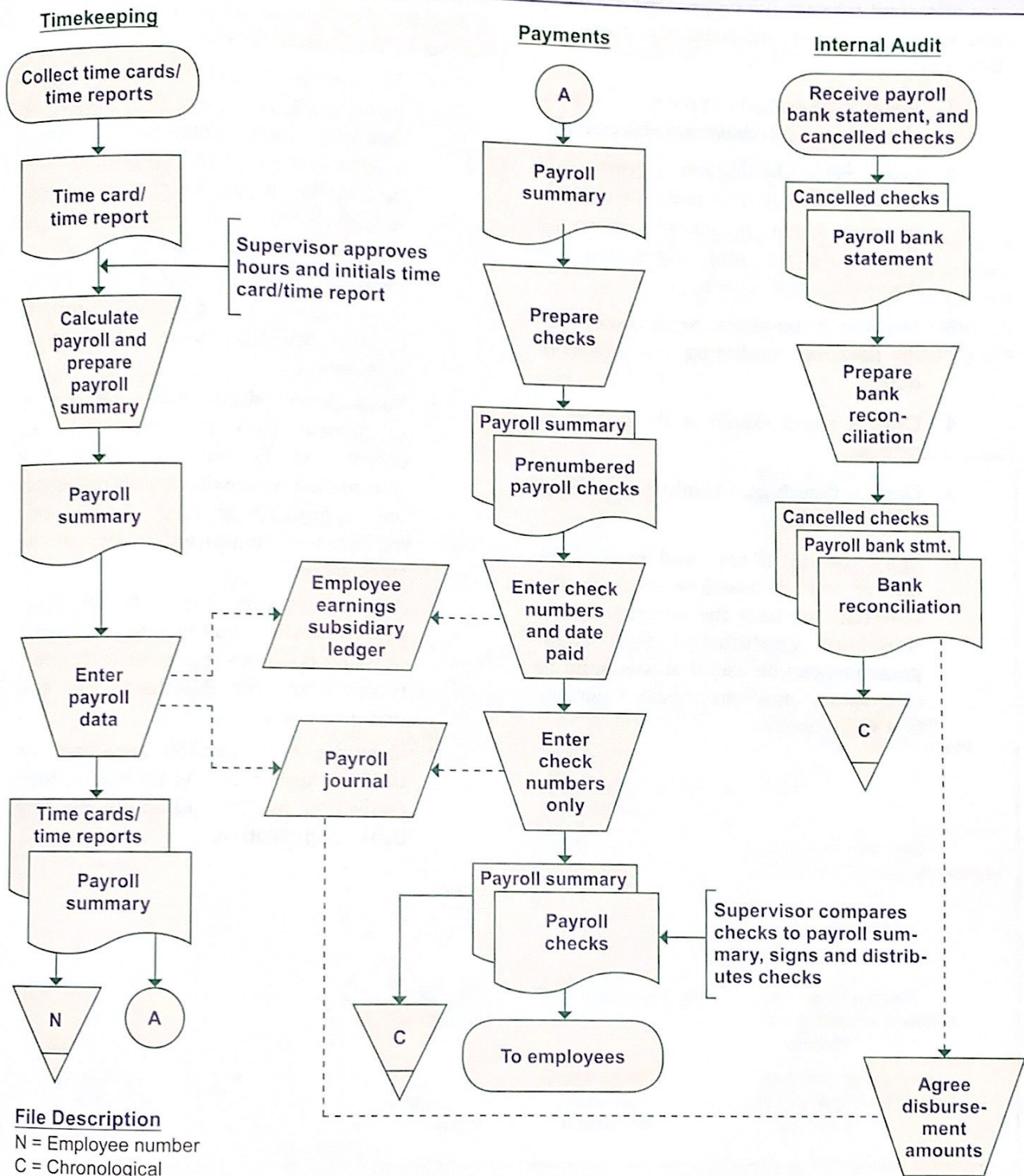


FIGURE 2-2
Flowchart Illustrating Separation of Duties and Internal Controls (Payroll Transactions Cycle)



CHAPTER 2

Overall Approach

Following the flowcharting techniques described previously should yield readable, complete, and relevant flowcharts. The following are steps ordinarily followed in preparing flowcharts:

1. Identify the system or process to be flow-charted (e.g., purchasing, sales, payroll).
2. Learn what documents, records, and activities are in the system by interviewing client personnel, observing their activities, and examining the documents and records.
3. Develop a tentative organization for the flowchart, including segregation of duties.
4. Draw a rough sketch of the system or process.
5. Draw a flowchart, including comments and annotations.
6. Trace the documents and records for one or two transactions through the flowchart to check the accuracy of the flowchart. Consultation with client personnel can be useful at this point to clear up any questions or inconsistencies that you identify.

Summary

Flowcharts provide a graphical way to show a company's documents and records and their sequential flow, including internal controls. The following observations about the flowchart in Figure 2-2 summarize the chapter.

- The flowchart shows the three departments involved in payroll. Notice, for example, that Timekeeping makes entries in the payroll journal and posts information to the employee earnings subsidiary ledger, but does not enter the check number or date paid.
- Every document can be traced to where it was received or prepared. Similarly each document can be traced to its disposition.
- Solid lines show how documents or records were prepared, filed, or distributed. Dotted lines show that information on the documents or records was examined or used. Annotations explain what happened in two of the steps shown.
- An on-page connector between Timekeeping and Payments is used to avoid drawing flowlines that cross each other, which keeps the flowchart clear and understandable.
- Several internal controls are shown on the flowchart, including approval of time cards/time reports and an independent bank reconciliation.